CURRICULUM VITAE

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PART I: GENERAL INFORMATION

Name: Samsun Lampotang, PhD, FSSH, FAIMBE

Office Address: University of Florida
College of Medicine
Department of Anesthesiology
1600 SW Archer Road
PO Box 100254
Gainesville, Florida 32610-0254

Office Phone: (352) 294-8148

Cell Phone: (352) 256-0489

Email: slampotang@anest.ufl.edu

Education:

1992	PhD, Mechanical Engineering, University of Florida, Gainesville, Florida
1984	MS, Mechanical Engineering, University of Florida, Gainesville, Florida
1981	BS, Mechanical Engineering, Brunel University, London, England

Postdoctoral Training:

05/92-08/92	Post-Doctoral Associate, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

Licensure:

1986	Engineer in Training (EIT), Florida

Academic Appointments:

2019- Present	Joachim S. Gravenstein Professorship of Anesthesiology
2011-Present	Affiliate Professor, Department of Biomedical Engineering, College of Engineering, University of Florida, Gainesville, Florida
2005-Present	Professor, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida
2005-Present	Affiliate Professor, Department of Mechanical & Aerospace Engineering, College of Engineering, University of Florida, Gainesville, Florida
2005-Present	Affiliate Professor, Department of Electrical and Computer Engineering, College of Engineering, University of Florida, Gainesville, Florida
1999-2005	Affiliate Associate Professor, Department of Electrical and Computer Engineering, College of Engineering, University of Florida, Gainesville, Florida
1999-2005	Affiliate Associate Professor, Department of Mechanical Engineering, College of Engineering, University of Florida, Gainesville, Florida
1999-2005	Associate Professor, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida
1996-Present	Graduate Faculty, University of Florida College of Engineering, Gainesville, Florida
1996-1999	Affiliate Assistant Professor, Department of Electrical and Computer Engineering, College of Engineering, University of Florida, Gainesville, Florida
1993-1999	Affiliate Assistant Professor, Department of Mechanical Engineering, College of Engineering, University of Florida, Gainesville, Florida

1993-1999 Assistant Professor, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

1992-1993 Visiting Affiliate Assistant Professor, Department of Mechanical Engineering, College of Engineering, University of Florida, Gainesville, Florida

1992-1993 Visiting Assistant Professor, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

1992 Post-Doctoral Associate, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

1982-1992 Graduate Research Assistant, Department of Anesthesiology, University of Florida College of Medicine, Gainesville, Florida

1982 Graduate Teaching Assistant, Mechanical Engineering Department, University of Florida, Gainesville, Florida

Hospital or Affiliated Institution Appointments:

2015-Present Innovations Director, UF Health Shands Experiential Learning Center, Gainesville, Florida

2014-Present Division Chief, UF Anesthesiology Department, Simulation Division

2014-Present Director, UF Clinical & Translational Science Institute (CTSI) Simulation Core Service, Gainesville, Florida

2009-Present Director, Center for Safety, Simulation & Advanced Learning Technologies (CSSALT), University of Florida College of Medicine, Gainesville, Florida

Major Administrative Responsibilities:

2015-Present Innovations Director, UF Health Shands Experiential Learning Center, Gainesville, Florida

2014-Present Division Chief, UF Anesthesiology Department, Simulation Division

2014-Present Director, UF Clinical & Translational Science Institute (CTSI) Simulation Core Service, Gainesville, Florida

2009-Present Director, Center for Safety, Simulation & Advanced Learning Technologies, University of Florida College of Medicine, Gainesville, Florida

Other Work:

1987 Extern Project Engineer, Ohmeda Anesthesia Systems (now GE Healthcare), Madison, Wisconsin, May-July, 1987. With Dean Michael Good, MD, co-designed and built first working prototype of Gainesville Anesthesia Simulator (GAS), which would become the Human Patient Simulator (HPS), at one time ranked 5th in terms of royalties collected by UF

1980 Design Draughtsman, Tate & Lyle Agribusiness Ltd, Bromley, England and Glasgow, Scotland

1979 Precision Machinist/Fitter, Acmade International Ltd, Denham, Middlesex, England

1978 Trainee Project Engineer, British Oxygen Medical Gases Ltd, Brentford, Middlesex, England

1977 Engineering Apprentice, Forges Tardieu Ltd, Port Louis, Mauritius

Major Committee Assignments:

Affiliated Institutions:

2020-present Member of the American Institute of Medical and Biological Engineers (AIMBE) Fellows

2018-Present Member of the Society for Simulation in Healthcare Academy (SSH) Fellows

2014-Present Member of UF CoM Faculty Enhancement Opportunity (FEO) Review Committee, University of Florida, Gainesville, Florida

2014-Present Anesthesia Performance Improvement Committee (APIC), University of Florida, Gainesville, Florida

2014 Translational Workforce Development writing team (headed by Marian Limacher, MD) for UF CTSI CTSA renewal proposal to NIH/NCATS, University of Florida, Gainesville, Florida

2014 UF Health Surgical Safety Initiative, University of Florida, Gainesville, Florida

2013-Present	Collaboration and training of UF Health Library IT personnel (Norton, David, Richmond) in developing new Virtual Human (VH) applications and running of existing VH applications, University of Florida, Gainesville, Florida
2012-2016	Florida Healthcare Simulation Alliance Advisory Board Member
2012	Experiential Learning/Simulation AHC Committee to provide input on floor plan and facilities of HMEB simulation facilities
2011	Strategies Work Group, UF Clinical and Translational Science Institute, Gainesville, Florida
2006-Present	Distance Learning Council, University of Florida, Gainesville, Florida
2004-Present	Board of Trustees, I. Heermann Anesthesia Foundation, Inc.
2003-2008	Simulator Center Task Force, Health Science Center
2003-2006	Distance Education Advisory Committee, UF College of Medicine, Gainesville, Florida
2000-Present	Research Committee, Department of Anesthesiology, University of Florida, Gainesville, Florida
1998-2000	Brain Institute Multimedia Equipment and Facilities RFP Evaluation Committee, University of Florida, Gainesville, Florida
1998-2000	Brain Institute Faculty Advisory Committee for Computing and Information Technology, University of Florida, Gainesville, Florida
1994-2000	Co-Chair Subcommittee on Training Devices and Simulators, University of Florida, Gainesville, Florida
1984-1987	Bain Circuit Committee, UF Department of Anesthesiology, Gainesville, Florida

National:

2017-Present	Invited Member, Special Interest Group on Education in Regional Anesthesia, American Society of Regional Anesthesia and Pain Medicine
2016-Present	American Society of Anesthesiologists, Advanced Technology and Training Planning Committee
2016	American Society of Anesthesiologists, *ad hoc* committee for MOCA 2.0 screen-based simulation
2014-Present	Anesthesia Patient Safety Foundation, Committee on Technology
2013-2014	Technology Innovation Committee, IMSH Research Committee
2010-Present	Medical Simulation Training Program FY10 Scientific Peer Review Committee, American Institute of Biological Sciences
2006-2010	Committee member, Simulation Education Network, American Society of Anesthesiologists; reviewed applications of Vanderbilt and other academic health centers for ASA endorsement of simulation centers to deliver MOCA (Maintenance of Certification in Anesthesiology) courses
2004-Present	American Society of Anesthesiologists, Committee on Equipment and Facilities
2004-2007	Society for Technology in Anesthesia, Board of Directors
2002-Present	Anesthesia Patient Safety Foundation, Committee on Education and Training
1998-1999	American Society of Anesthesiologists, Subcommittee on Equipment, Monitoring and Engineering Technology
1997-1998	Society for Technology in Anesthesia, Co-Chair, Session for Simulation in Anesthesia Annual Meeting of the Society for Technology in Anesthesia
1997-Present	Society for Technology in Anesthesia, Scientific Presentation Committee
1995-1997	Society for Technology in Anesthesia, Financial Oversight Committee
1993-1994	Society for Technology in Anesthesia, Organizing Committee for 1994 Annual Meeting
1993-1994	Society for Technology in Anesthesia, Co-Chair Experience the Simulators working group
1993-1999	American Society for Testing and Materials, Anesthesia Workstation Subcommittee

International:

2020-2021	Adjunct member of the American Society of Anesthesiologists Committee on Equipment and Facilities
2012-Present	World Federation of Societies of Anesthesiologists (WFSA), Advisory Group
2008-2012	World Federation of Societies of Anesthesiologists (WFSA), Workgroup on Education and Training, World Health Organization/WFSA Global Oximetry Project, now known as LifeBox

2004-2012	World Federation of Societies of Anesthesiologists (WFSA), Standing Committee on Safety and Quality of Practice

Other Professional Service (Non-Committee):

2021	Oxygen pinching technique to manually interrupt oxygen flow during exhalation to reduce waste during acute oxygen shortage in low resource environments
2020	Zoom COVID-19 course with 1st year medical students on research, COVID-19, and the ventilator project.
2019	Reviewer of applicants for the SSH Academy for induction of fellow applicants
2019	By request, the turnkey, instructor-less central venous access simulator is on its way back to Iraq for a second tour of duty starting June 2019
2018-2019	A central venous access mixed reality simulator designed and built in our lab completed a successful 5-month tour of duty in Baghdad, Iraq starting in November 2018. The turnkey, instructor-less simulator was used to train deployed medics and physicians in austere environments being transported by helicopter to troops deployed outside Baghdad.
2017	Helping new UF College of Veterinary Medicine faculty Marina J. McConkey, DVM, begin veterinary simulation
2016-Present	With UF CISE VERG lab, helping Dr. Scott Lind replicate a Virtual Human-based teamwork training program at UF Health Jacksonville
2016-Present	Monthly Simulation Lunch and Learn Open House as part of CTSI-funded simulation outreach to UF Academic Health Center faculty and staff
2016-Present	PI, Ongoing IRB-01 clinical trial of an automated verbal prompt to patients to take a deep breath when SpO2 falls below 93; in 9 PACU patients, low SpO2 audible alarms were reduced tenfold
2016-Present	With Jeff White and David Estores, initiating a pragmatic clinical trial of a standardized titration of propofol monotherapy to loss of eyelash for sedation in ST GI Endoscopy suite
2014–Present	Faculty instructor for American Society of Anesthesiologists/American Board of Anesthesiology Maintenance of Certification in Anesthesiology (MOCA) simulator-based sessions (17 to date)
08/2016	Reviewer for promotion of Avner Sidi, MD, to Clinical Professor at University of Florida
12/2015	External reviewer for promotion of Larry Chu, MD, to Professor in Medical Center Line at Stanford University
2015-Present	Host hands-on simulation contests with winners awarded prizes as part of Quality & Safety week
10/2015	External reviewer for promotion of Sylvain Boet, MD, to Associate Professor at University of Ottawa
2014-2015	Organized a series of CTSI-funded monthly simulation lunch lectures for simulation outreach to UF faculty and staff as part of our mission as a CTSI core service
2014-Present	To date, I have taught with Nik Gravenstein, MD, 17 MOCA (Maintenance of Certification in Anesthesiology) courses to 133 practicing anesthesiologists
03/2014	Together with Nik Gravenstein, MD, I obtained American Society of Anesthesiologists endorsement for UF to deliver Maintenance of Certification in Anesthesiology (MOCA) all-day simulator-based sessions, as far as we can tell, the first and only MOC program at UF
07/2013	Reviewer for promotion of Juan Cendan, MD, University of Central Florida to Professor
2012	Judge for Anesthesia Patient Safety Foundation's Ellison Pierce Award for Best Patient Safety Scientific Exhibit at ASA
2012	Reviewer for proposal for a neurosurgical simulator, Physician Services Incorporated Foundation, Canada
2011-Present	Founder of the UF Health Simulation web site at http://simulation.health.ufl.edu, a virtual simulation center that preceded the brick and mortar HMEB simulation center and provides a listing of simulation in healthcare activities at the 6 colleges comprising the UF Academic Health Center and also at UF
2008-2009	Simulation Faculty Learning Community funded by the UF Provost; monthly simulation lectures at the Communicore by various UF simulation researchers

1999-Present Founder of the Virtual Anesthesia Machine web site and a portfolio of online, interactive, screen-based simulations at http://vam.anest.ufl.edu/wip.html with >44,000 registered users with authenticated email addresses

Professional Societies:

2018-Present Society for Simulation in Healthcare (SSH) Fellow, Member
2017-Present American Society for Regional Anesthesia and Pain Medicine, Member
2016-Present International Anesthesia Research Society, Member
2003-Present Society for Simulation in Healthcare, Member
2001-Present Society for Education in Anesthesia, Member
1993-Present Society for Technology in Anesthesia, Member
1993-1999 American Society for Testing and Materials, Member
1992-Present Florida Society of Anesthesiologists, Member
1992-Present American Society of Anesthesiologists, Member
1992-1999 American Society of Mechanical Engineers, Member
1991-Present Anesthesia Patient Safety Foundation, Member

Editorial Boards:

2014-Present *Association for Computing Machinery (ACM) Computing Surveys,* Reviewer
2014-Present *BioMed Central*, Reviewer
2014-Present *IEEE Virtual Reality,* Reviewer
2013-Present *BMJ Quality & Safety*, Reviewer
2010-Present *Clinical Window Scientific Journal*, Editorial Board Member
2005-Present *Simulation in Healthcare*, Member of Founding Editorial Board
2003-Present *IEEE Transactions of Biomedical Engineering*, Reviewer
2001-Present *Anesthesia & Analgesia*, Reviewer
2000 *Internet Journal of Anesthesiology*, Editorial Board
1999-2003 *Anesthesiology*, Reviewer
1998-2000 *Journal of Clinical Monitoring and Computing*, Editorial Board Member
1995-1997 *Journal of Clinical Monitoring*, Editorial Board Member
1993 *Journal of Clinical Anesthesia*, Guest Technical Reviewer
1987-1994 *Journal of Clinical Monitoring*, Guest Technical Reviewer

Awards and Honors:

2020 Sept 22, 2020 – Awarded UF Office of Technology Licensing Innovation of the Year/Invention of the year for the PanVent™ Emergency Use Ventilator
2020 Jul 7, 2020 – PanVent nominated as Innovation of the Year by Lichtebeld licensing team for the Office of Technology Licensing standing Innovation 2020
2020 May 4, 2020 – Selected as xTech|COVID-19 Ventilator Challenge Part 1 Winner by USARMY Pentagon. Awarded $5,000.
2020 April 30, 2020 – Selected by the Florida Society of Anesthesiologists Program Committee 2020 as Abstract of Distinction for abstract titled "Simulation Use In The Outreach Setting: A Novel Approach To Building Sustainability". Abstract ID: 107839.
2019 Named to the Society for Simulation in Healthcare (SSH) Academy Class of 2019 Fellows. https://simulation.health.ufl.edu/2018/09/19/samsun-lampotang-phd-named-to-the-ssh-academy-class-of-2019-fellows/
2019 Nominated for the Joachim S. Gravenstein Professorship of Anesthesiology, Department of Anesthesiology, UF College of Medicine, Gainesville, FL
2019 Nominated for the American Institute of Medical and Biological Engineers (AIMBE) Fellow; Nomination for Class of 2020
2019 Inducted as a Fellow of the Academy of the Society for Simulation in Healthcare, IMSH Annual

Meeting, San Antonio, TX

2015 Exemplary Teacher award, University of Florida College of Medicine

2015 Nominated for University of Florida Research Foundation Professorship award by Timothy E. Morey, MD, Anesthesiology chair

2013 Best Abstract for Technology Innovation, International Meeting on Simulation in Healthcare meeting. An iPad simulation of skin prepping

2013 Nominated for Best Short Paper, IEEE Virtual Reality Meeting, Lampotang et al: Mixed Simulators: Augmented Physical Simulators with Virtual Underlays

2013 Second Place Award for Scientific & Educational Exhibit, American Society of Anesthesiologists meeting, Mixed simulator of thoracic regional anesthesia

2013 Faculty Enhancement Opportunity award, $23,593 to attend Comprehensive Simulation Instructor and Advanced Simulator Instructor courses at Harvard Center for Medical Simulation

2013 Technology Innovator, University of Florida Office of Technology and Licensing

2013 Ellison C. Pierce Award for Best Scientific Exhibit on Patient Safety, Anesthesia Patient Safety Foundation, Mixed simulator of thoracic regional anesthesia

2012 Technology Innovator, University of Florida Office of Technology and Licensing

2012 Best Paper Award, Emerging Concepts and Innovative Technologies Section, Interservice/Industry Training, Simulation and Education Conference, Lampotang et al: A subset of mixed simulations: augmented physical simulations with virtual underlays

2011 Technology Innovator, University of Florida Office of Technology and Licensing

2011 First Place Award for Scientific & Educational Exhibit, American Society of Anesthesiologists, Mixed simulator of central venous access

2009 Exceptional Merit Award for Scientific Exhibit, American Society of Anesthesiologists, Pulse oximetry – An accurate monitor for detection of hypoventilation

2008 Third Prize for Scientific Exhibit, American Society of Anesthesiologists, Augmented Anesthesia Machine

2007 SEA/Duke Award for Excellence and Innovation in Anesthesia Education, Society for Education in Anesthesia (SEA); *first, and to date only, non-physician to have received this award* - *https://seahq.net/index.php/component/content/article?id=103:dukeaward*

2005 IBM Faculty Development Award, International Business Machines (IBM)

2005 Best paper in the category "e-learning Collaborative Environment: Practical Experiences and Theoretical Fundamentals," Partnership in Global Learning, Simulation and the Cognitive Science of Learning: Assessing the Virtual Anesthesia Machine (VAM) simulation

2004 Nominated SEA/Duke Award for Excellence and Innovation in Anesthesia Education, Society for Education in Anesthesia

2003 Nominated for SEA/Duke Award for Excellence and Innovation in Anesthesia Education, Society for Education in Anesthesia

2003 Nominated for the Society of Teaching Scholars, University of Florida

2003 Nominated for the Ernest L. Boyer International Award for Excellence in Teaching, Learning and Technology, University of Florida

2003 Award for Innovative Excellence in Teaching, Learning and Technology, University of Florida

2001 First Prize for Scientific & Educational Exhibit, American Society of Anesthesiologists, Virtual Anesthesia Machine

2001 Ellison C. Pierce Award for Best Scientific Exhibit on Patient Safety Anesthesia Patient Safety Foundation, Virtual Anesthesia Machine

2000 Best Abstract for the Application of Technology to Education, Society for Technology in Anesthesia, Virtual Anesthesia Machine

1998 Second Place for Scientific & Educational Exhibit, International Anesthesia Research Society, Imaging stylet

1998 Best ASA abstract for the application of technology innovation awarded by the Society for Technology in Anesthesia, American Society of Anesthesiologists meeting, Imaging stylet

1998	Postgraduate Assembly of Anesthesiology, Honorable Mention for Scientific Exhibit, New York State Society of Anesthesiologists, Imaging stylet
1998	Outstanding abstract for technology innovation, Society for Technology in Anesthesia, Imaging stylet
1997	Ellison C. Pierce Award for Best Scientific Exhibit on Patient Safety, Anesthesia Patient Safety Foundation, Imaging stylet
1994	Exceptional Merit Award for Scientific Exhibit, American Society of Anesthesiologists, Neuromuscular Blockade Training Device
1992	First Prize for Scientific & Educational Exhibit, American Society of Anesthesiologists, Training devices
1989	UF Presidential Recognition Award, University of Florida
1987	First Prize for Scientific Exhibit & Educational Exhibit, American Society of Anesthesiologists, Gainesville Anesthesia Simulator/Human Patient Simulator
1977-1981	Scholarship for undergraduate studies at Brunel University, England, Government of Mauritius

PART II: RESEARCH CONTRIBUTIONS

Contracts and Grants Funded Externally:

7/21	Johnson P, Bradley J, Lampotang S: Improving breast radiotherapy setup and delivery using mixed-reality visualization. Florida Breast Cancer Foundation, $100K, 1 year.
2019	PI: Whyte S. Co-I: Carleton, Gorges M, Poznikoff, Lampotang S. Genetic Racial Difference in Pharmacodynamic Safety Endpoints with Propofol Anaesthesia in Children- A Genome-Wide Association Study Analysis. $25,000, 1 year. British Columbia's Children's Hospital Research Institute Clinical Research Support Development Award
2017	PI, Option proposal Phase 2 to DoD Award # W81XWH-14-1-0113 "A modular set of mixed reality simulators for 'blind' and guided procedures", 2 years: 8/1/17 – 7/31/19, $1M
2016-2018	Co-I, "Make It Stick: An Educational Model To Improve Long-Term Retention Of Electroencephalography Knowledge." Foundation for Anesthesia Education and Research (FAER), $100,000
2015	Innovated and contributed concepts and text related to simulation, innovation, integration, assessment as member of the Translational Workforce Development writing group led by Marian Limacher, MD to UF CTSI NIH/NCATS renewal proposal (~5 years, ~$25 M), PI, Nelson D
2014-2017	PI, A Modular Set of Mixed Reality Simulators for "Blind" and Guided Procedures, TATRC/USAMRAA/JPC-1, Department of Defense, DoD Award # W81XWH-14-1-0113, $750,000, 3 years
2014-2017	Co-I with team of UF Health Nursing colleagues; PI, Michelle Brunges, RN; Utilizing Simulation Scenarios Involving Interdisciplinary Teams for Improving Patient Safety in the Perioperative Setting, Blue Cross/Blue Shield Florida Blue Foundation, $55,000
2014-2016	Co-I, Using Simulation to Train UF Health Emergency Response Teams in the ICU, I. Heermann Anesthesia Foundation, $125,000
2014-2015	Co-I, Towards a curriculum for transferrable training in thoracic epidural and paravertebral block using an advanced mixed-reality simulator, American Society for Regional Anesthesia, $77,926
2014	PI, Repair of CVA mixed simulator #2, TeleFlex Medical, $5,262
2014	PI, Repair of CVA mixed simulator #1, TeleFlex Medical, $9,600
2013-2014	PI, Design and build a mixed simulator of regional anesthesia, TeleFlex, $60,000
2013	PI, Simulator-based usability study of medical equipment, Maquet, $50,000
2012-2016	Co-I, PI for UF CoM, National Science Foundation Human Centered Computing Division, Plug and Train: Multi-Party Mixed Reality Humans, 4-year, $1.1M

2012-2014	Co-I, Retained urine volume and bacteriuria in traditional vs vented urine drainage systems, I. Heermann Anesthesia Foundation, $80,566
2012-2013	PI, CareFusion, iPad 2 App for Simulation of CareFusion ChloraPrep Skin Prep, $50,000
2012-2013	PI, Lampotang S, Gravenstein N: Simulator–based usability of medical equipment, Philips Healthcare, $60,813
2012	PI, TeleFlex Medical, Service Agreement with TeleFlex for Spare Tracked Central Venous Access Needles, $2,000
2011-2013	Co-I, National Institutes of Health, A Mixed Reality Conscious Sedation Simulator for Learning to Manage Variability, National Library of Medicine, $369,473
2011-2013	Co-I, I. Heermann Anesthesia Foundation, Mixed reality regional anesthesia simulator, $83,370
2011-2013	PI, TeleFlex Medical, Subclavian central venous access simulators, $100,000
2011-2012	PI, Dräger Medical, Simulator-based study of Apollo Low Flow Wizard, $40,000
2011-2012	PI, CareFusion, Skin prep simulator, $50,000
2011	PI, Shands Self-Insurance Program, Production of a patient education video for pressure sore prevention to be aired on Shands in-house TV channel, $5,000
2009-2010	PI, CareFusion, Development of a skin prep simulator, $50,000
2009-2010	PI, Schering Plough/Merck, Simulated Anesthesia Application, $17,500
2009-2010	PI, Translation and Support of the Simulated Anesthesia Application, $101,800
2009-2010	PI, Schering Plough, Support for Global Simulated Anesthesia Application, $9,250
2009	PI, Dräger Medical, Augmented Apollo Demonstration Project, $10,000
2009	PI, Maquet, Sweden, Simulator-Based Usability study of a new anesthesia machine design, $24,973
2009	PI, Philips Medical, Simulator-Based Usability study of Automated Anesthesia Record Keeper, $16,200
2008-2011	PI, Organon USA, Simulated Anesthesia Application Phase IIB, $308,955
2008-2009	PI, Dräger Medical, Augmented Apollo and Primus, $35,000
2008	Co-I, I. Heermann Anesthesia Foundation, Development of, and evaluation of learning with, a new simulation of single-ventricle physiology, $64,744
2008	PI, Organon, Organon anesthesia preceptorship, $20,000
2008	PI, Enturia, Educational grant from Enturia, $10,000
2007-2008	PI, Organon USA, Simulated Anesthesia Experience Phase IIA, $76,497.50
2007	PI, Organon USA, Simulated Anesthesia Experience Phase I, $129,658
2005	PI, Molecular Products, Development of a web-enabled simulation of carbon dioxide absorption in an anesthesia circle system, $9,000
2005	PI, Anesthesia Patient Safety Foundation, Development and evaluation of simulation and workbook for the anesthesia machine pre-use check, $75,000
2004-2005	PI, Support for web simulation from the University of Florida Distance and Continuing Education, $55,000
2004-2005	PI, Novo Nordisk, Factor 7 Web Simulation and Web Site, $50,000
2004-2005	PI, Abbott Laboratories, Use of instructor VAM to teach general anesthesia with volatile anesthetics in Japan, Japan, $4,500
05/04-07/04	PI, Hudson RCI, Simulator based study of the Anaconda vaporizer, $37,500
2003- 2004	PI, I. Heermann Anesthesia Foundation, Effectiveness of the Virtual Anesthesia Machine web simulation as a learning tool, $30,000
2002-2007	Co-I, Thomas H. Maren Foundation, Maren educational initiative to simulate adverse drug interactions, $150,000
2002	PI, Dräger Medical, Inc., Additional Enhancements to the Virtual Fabius GS, $27,500
2002	PI, Anesthesia Patient Safety Foundation, Development of an anesthesia machine workbook, $15,000
2001	PI, Dräger Medical, Inc., Enhancements to the Virtual Fabius GS, $25,000
2001	PI, Dräger Medical Inc., Virtual Fabius GS project, $22,000

1997-1998	PI, I Heermann Anesthesia Foundation, Improved retention of critical neuroanesthesia concepts learned using a patient simulator compared with didactic teaching, $7,500
1996-1997	PI, Novametrix Medical Systems, Extraction of breath rate from the pulse oximeter optoplethysmogram, $67,585
1996-1997	PI, Gibeck, Performance evaluation of an active heat and moisture exchanger using research dogs, $48,142
1996-1997	PI, Johnson & Johnson Medical Instrumentation, Usability study of the Johnson & Johnson integrated physiological monitor, $18,526
01/96-02/96	PI, Science Applications International, Inc., Pilot HPS-MedSAF data link, $11,465
1995	PI, Datex Medical Instrumentation, Simulator-based usability study of the Datex Record Keeper II, $18,000
1995	PI, Allied Healthcare Products, Electronic gas blender project, $86,461
1994-1995	PI, Hewlett Packard Corporation, Gainesville recirculating anesthesia delivery system (GRADS), $160,150
1994-1995	PI, Loral Data Systems, Hardware enhancements for the Loral Human Patient Simulator, $25,000
1994	PI, Datex Medical Instrumentation, Simulator-based usability study of an automated anesthesia record keeper, $30,676
1993-1994	PI, Life Support Products, Inc., Research and development of transportable ventilators and monitoring systems-extension, $155,508
1993-1994	PI, Hewlett Packard Corporation, Gainesville recirculating anesthesia delivery system, $177,187
1993	Co-I, BlackBox, Noninvasive hemoglobinometry, $2,000
1992-1993	Researcher, Life Support Products, Inc., Research and development of transportable ventilators and monitoring systems, $66,075

Contracts and Grants Funded Internally:

2019	PI: Lampotang, Stringer, T: Novel precision guidance for TRUS templated and targeted prostate biopsy" $83,110, Commercialization Fund of the UF Office of Technology Licensing
2017	PI, Lampotang, White J, Estores D, Derendorf H, Cavallari L, Gravenstein N: Pragmatic Clinical Trial of Race-Specific Dosing for GI Propofol Sedation, $50K, 2 year proposal to UF CTSI Translational Pilot Funding (resubmission)
07/2011	Co-I, University of Florida Chapman Education Center (COMCEC) Faculty Educational Research Grants, Using Simulation-Based Education to Evaluate Curriculum Deficiencies and Improve Non-Technical Skills, in an Anesthesiology Teaching Program, $5,000
2010-2012	PI, University of Florida Office of Technology Licensing Commercialization Fund, R&D for management and mitigation of undrained dependent loops, $20,000
2010-2011	PI, UF Neurosurgery Department, Ventriculostomy simulator, $22,575
2008	PI, University of Florida Office of the Provost, Simulation faculty learning community (SimFLC), $6,600
08/07-12/08	Co-I, Office of Technology and Licensing, Noninvasive hemoglobin measurement, $28,500
2005	PI, International Business Machines (IBM) Faculty Award, $10,000
2005	PI, University of Florida Research Foundation Commercialization Fund, Smart Self-Inflating Resuscitation Bag, $9,000
2004-2005	PI, University of Florida Distance and Continuing Education, Web simulation, $55,000
2003-2004	PI, University of Florida Distance and Continuing Education, Web simulation of CVVH-dialysis and filtration, $50,000
2003	PI, University of Florida Academic Technologies, Internationalizing the Curriculum for VAM, $3,000
11/98-04/99	PI, University of Florida BioMedical Engineering Program, A cervical motion sensor for the Human Patient Simulator, $6,242

1996 PI, Office of Research Technology and Graduate Education, Gap funding, $16,933

1996 PI, University of Florida Division of Sponsored Research, Graduate Research Assistantship Award, $5,768

1995 PI, University of Florida Division of Sponsored Research, Travel award, $4,000

1995 PI, University of Florida, Division of Sponsored Research, Gatorade Allocation to Support Further Development of the Method for Light and Sound Conduction Through the Trachea, $17,000

1993 Co-I, University of Florida, Division of Sponsored Research, Gatorade Allocation to Support the Further Development of the Method for Light and Sound Conduction through the Trachea, $25,000

1993 Co-I, Bear Medical Systems, Inc., Effects of the rate of pressure rise on work of breathing during pressure support ventilation, $4,625

Contracts and Grants Submitted:

6/4/2021 Lampotang S, Wang Z, Antonenko P, Lou X, Shaw C, Luria I, Brisbane W: Development, Verification and Validation of a Modular Framework for Building Virtual Coaches for Technical Procedural Skills for Practicing Clinicians; R01 proposal submitted to NIH NIBIB, 4-year, $3M

4/29/2021 Lampotang S, Stringer T, Terry R: Pfizer/Prostate Cancer Foundation Health Equity Challenge Awards; Letter of Intent: Training in Biopsy of the Prostate Anterior Zone to Detect Prostate Cancer Earlier in Black Males, $150K, 2-year

2/2/2021 PI: Lampotang, co-I Stringer T, Brisbane W, Ahmad A. R01 proposal submitted to NIH NIBIB: Visualized imaging for image-guided procedures: Real-time, 3D visualization for planning, guidance and feedback for reducing prostate biopsy false negatives, 4-year, $ 2.755 M

Contracts and Grants Submitted But Not Funded:

10/19/20 PI: Iyer S (Opthalmology), Co-Is: Lampotang S, Garson N (Opthalmology), Smith C (Anesthesiology), Sherwood (Opthalmology): Retrobulbar block simulator. LOI to Research Opportunity Seed Fund. Design, build, verification, validation and dissemination of an oopthalmic regional anesthesia simulator. $100 K, 2-yr

10/19/20 PI: Lampotang S, Co-Is: Stringer T (Urology), Lou XG (Biostatistics), Visualized system for precision biopsy and treatment. LOI to Research Opportunity Seed Fund $100 K, 2-yr

10/1/2020 PI: Lampotang. Submitted to Mike Silve Foundation a 1 year, $50,000 proposal: Safe, systematic, transrectal sampling of the prostate anterior zone in African descent men suspected of having PCa

9/29/2020 PI: Lampotang. Submitted to DoD Prostate Cancer Research Program: Look where you're going: Intuitive, real-time, 3D visualization guidance and feedback system for accurate systematic and targeted prostate biopsy, 3-year, $1.144M

8/13/2020 PI: Lampotang S, co-I Stringer T. Training in Systematic Biopsy of the Prostate Anterior Zone to Detect Clinically Significant Prostate Cancer Earlier in Black Males. LOI submitted to Pfizer/American Cancer Society Prostate Cancer Disparities Project, $250K, 2 year

8/10/2020 Semi-Autonomous Deployable Femoral (Arterial and Venous) Access and REBOA Trainer- UF PI (Lampotang); $170,709, 1.5 year (21/1/20 – 5/31/22) proposal submitted as sub-contract to Madigan Army Medical Center (PI: Alex Koo, MD) to DoD's FY21 Advanced Medical Technology Initiative (AMTI) program.

7/23/2020: Recompete of Air Force Modeling & Simulation with University of Florida as sub contractor to Huntington Ingalls Industries – UF share is ~$1M of a $650M 5-yr contract

07/16/2020 Lampotang S (PI): Earlier diagnosis of prostate cancer by reduction of prostate biopsy false negatives via simulation-based training. Submitted to DoD Prostate Cancer Research Program Translational Science Award on July 16, 2020; 3-year, $1,494,712

2020 Lampotang (Sub-PI), Lizdas D, Johnson WT. Semi-Autonomous Deployable Femoral (Arterial and Venous) Access and REBOA Trainer. Madigan Army Medical Center. (Submitted May 2020)

2019 Przkora (PI), Lampotang (Co-I), Tighe (CO-I), Military MD (TBD). A Mixed Reality Simulator and Care System with an Artificial Intelligence-Based Targeting Overlay for Early Treatment of Acute Pain to Prevent Chronic Pain. DoD, 4 Years, $900K (LOI submitted)

2019 Odedina (PI), Pereira (Co-I), Young (Co-I), Dagne (Co-I), Stringer (Co-I), Balaji (Co-I), Lampotang (Co-I). Point of Prostate Cancer Diagnosis (PPCD) Behavioral Intervention Trial for Ethnically-Diverse Black Men. Florida Department of Health Bankhead-Coley Cancer Research Program 19-20. $750,000 3 years.

2019 Johnson (PI), Lampotang (CO-I). Mixed reality visualization for registering a patient with a therapeutic device via hologram. Proposal. Proposal to NIH R21, 2 Years, $275K.

2019 Ihnow (PI), Lampotang (co-I), Blakemore (co-I), Development of an Ultrasound Guided Hip Aspiration Model & Training Program. OREF 2 years, $100,000, proposal submitted.

2019 Couperus (PI), Lampotang (co-PI): Semi-Autonomous Femoral (Arterial and Venous) Access and REBOA Trainer, $250K, 18-month proposal submitted 04/17/2019 to AMEDD Advanced Medical Technology Initiative (AAMTI) EIF (Extended Innovation Funding) program.

2019 Tan GH, Perlis N, Lampotang S: Evaluating transperineal versus transrectal prostate biopsy using the UF Mixed Reality Simulator. $20,000, Submitted April 2019 to Canadian Urological Association

2019 Lampotang S (PI), Stringer T, Yu Y, Wu S: Reducing health disparity by making accessible systematic prostate biopsy more accurate (less csPCa false negatives in patients) via simulation-based training; 3-yr, $1.1 M proposal to DoD Prostate Cancer Research Program Health Disparity Award program

2019 Lampotang S (PI), Stringer T, Yu Y, Wu S: Pre-clinical evaluation of a non-MRI guidance system for reducing csPCa false negatives during systematic TRUS prostate biopsy; 3-yr, $1.1 M proposal to DoD Prostate Cancer Research Program Translational Science Award program

2019 Lampotang (PI), Stringer (CO-I). Simulator-Based Training in Freehand Systematic Prostate Biopsy to Improve Prostate Cancer Survival and Quality of Life in the Southeastern United States. The Mike Slive Foundation, 1 Year, $50K.

2018 PI, Lampotang S, Co-I, Otto B, Stringer T, Baiming Z. Learning and patient outcome studies: Can simulation-based training reduce the incidence of false negatives during simulated and actual TRUS prostate biopsy? 3-year, $750K; PRE-PROPOSAL to DoD Prostate Cancer Research Program (PCRP)

2018 PI: Samsun Lampotang, PhD. Co-investigators: Brandon Otto, MD, Thomas Stringer, MD, Samuel Wu, PhD. Learning and patient outcome studies: Can simulation-based training reduce the incidence of false negatives during simulated and actual TRUS prostate biopsy? 3-year, $750K FULL PROPOPSAL to DoD Prostate Cancer Research Program (PCRP)

03/2019 PI: Samsun Lampotang, PhD. Co-investigators: Brandon Otto, MD, Thomas Stringer, MD, Baiming Zou, PhD. Learning and patient outcome studies: Can simulation-based training reduce the incidence of false negatives during simulated and actual TRUS prostate biopsy? 3-year, $750K full proposal to DoD Prostate Cancer Research Program (PRCP)

02/2019 PI: Morgan Yacoe, Co-I, Lampotang S, Tomaszewski. Transdisciplinary Artist in Residency, 1 year, $5,300. University of Florida Creative Campus Catalyst Fund.

12/2018 PI, Lampotang S, Co-I, Blakemore L, Training Orthopedic Residents in Ultrasonography (US)/US-Guided Aspiration; $300,000, 3 Years, ORTHOPAEDIC RESEARCH AND EDUCATION FOUNDATION (OREF) & THE AMERICAN BOARD OF ORTHOPAEDIC SURGERY (ABOS) SURGICAL SKILLS SIMULATION TRAINING FOR RESIDENTS Research Grant, LOI submitted, not funded.

2019 Co-I, Lampotang S, Shenot P, Trabulsi E. PI, Truong H: Development and validation of transrectal ultrasound guided prostate biopsy instructional video. $17,500, 1 year proposal to SAU

10/2018 PI, Lampotang S, Co-I, Stringer T, Addressing Health Disparity by Redesigning Technology: A More Streamlined, Affordable, Precision Prostate Biopsy System; $100,000, 2 years UF College of Medicine Seed Grant LOI submitted, not funded

2017 PI, Department of Education, $50K, 4-month proposal for a cross-sectional literacy and spatial ability game for Career Technical Education

2017 PI, $300K, 1-year proposal submitted to Merck for a free CME-accruing, simulation-based, online, interactive curriculum of neuromuscular blockade (NMB) dosing, monitoring, reversal

2016 Co-I, Koppal SJ, Lampotang S: SCH: INT: Preventing Hospital-Acquired Infection by Privacy-Preserving Visual Monitoring. 4-year (9/1/2017 - 8/31/2021), $975,882 total (Anesthesiology share: $630,767) proposal to the NSF Smart and Connected Health (SCH) Program

2016 Co-I, Lok B, Lampotang S, Wendling A, White C: III Medium Climate Change: Using Virtual Humans to Improve Team Climate. $1.1 M, 4-year proposal submitted to National Science Foundation Human Centered Computing division (Anesthesiology share: $322,436)

2016 PI, Lampotang S, Choi SC, Lizdas DE, Oh S, Gravenstein N: Development of a Central-Venous-Access Augmented Reality Simulator Prototype for Korean Military Needs. 3-yr, $204,545 Pre-proposal submitted to South Korean Defense Agency of Technology and Quality (DTaQ)

05/2016 PI, Lampotang S , McCormack W, Cooper LA, Blue A, Giordano, C, Wendling A, Byun S, Salas E, Lizdas DE, Cohen CA: TBL for acquiring cognitive, psychomotor and affective skills at early stages of inter-professional team formation; $1.2M, 2 year Proposal submitted to DoD JPC-1

01/2016 Co-I, Lok B, Lampotang S, Wendling A, White C: Improving Intra-team Operating Room Communication Behaviors and Patient Outcomes through Training with Mixed Reality Humans. 3-year, $750K, R18 proposal submitted to Agency for Healthcare Research & Quality (AHRQ)

12/2015 Co-I, Blakemore L, Lampotang S: Development and Validation of a Simulator-Based ultrasound-Guided Aspiration Training for Orthopaedic Residents (uGATOR), Gerber Foundation proposal LOI $267,070 to CSSALT, $322K total, 3 years

10/2015 Co-I, Treise, Lok, Iovine, Lampotang: Empowering patients and training clinicians about hand washing conversations before examinations. $2.5 M, 5-yr proposal to Agency for Healthcare Research & Quality (AHRQ)

09/2015 Co-I, Butler K, Koppal SJ, Lampotang S, Rashidi P, Tighe P: Patient Privacy and Safety in the Intelligent Operating Room, $100K, 1-year, HoloLens-based University of Florida proposal submitted to Microsoft

08/2015 PI, Lampotang, Lizdas, Gravenstein: Screen-based Maintenance of Certification in Anesthesiology 2.0 (MOCA 2.0) $2.4M, 4-yr proposal presented to American Society of Anesthesiologists ASA Board of Directors, Chicago, IL on 8/16/15 (finalist but declined)

2015 Co-I, Przkora R, Lampotang S: Using Virtual Humans for training anesthesiologists in affective skills for managing difficult patients. Anesthesia Patient Safety Foundation: $150,000, 2 years

2015 Co-I, Lok B, Lampotang S, Wendling A, White C: Positive "Virtual" Peer Pressure - Influencing Best Practices to Improve Patient Safety with Mixed Reality Human Training, 3 years, $750,000

01/2015 PI, Dosing practices during propofol sedation: awareness, and clinical data collection, of race-specific propofol pharmacodynamics in the multi-racial population of Mauritius

11/2014 Co-I, Anesthesia gas sensors based on graphene, Letter of Intent to UF Research Opportunity Fund

09/2014 PI, Proposal to Covidien for applying UF IP on patient empowerment technology during capnography for procedural sedation

06/2014 Co-I, Consortium led by UCLA CRESST group: Proposal to ASA for online MOCA 2.0, $0.4–1.0M

04/2014 Co-I, Simulation Team Training for Timely Intervention during Respiratory Deterioration - Sponsor Name: AGCY HEALTHCARE RES & QUALITY (AHRQ)

03/2014 PI, Anesthesia Patient Safety Foundation, Reducing IV pump alarms via patient empowerment and participation, $150,000

01/2014 Co-I, Heermann Anesthesia Foundation (IHAF), The Effect of color-coding anesthesia medication labels on the incidence of medication administration errors, $125,000

01/2014 Co-I, Heermann Anesthesia Foundation (IHAF), Curriculum development and validation study for a regional anesthesia simulator, $125,000

01/2014 Consultant, Anesthesiology NIH/NIGMS T32 application, Research Training Program in Perioperative, Critical Care and Pain Medicine

11/2013 Co-I, High performance graphene-based nanoscale gas sensors for anesthesia monitoring, UF Opportunity Fund, $100K

10/2013 PI, Alaris, CareFusion, Clinical study of safety and efficacy of an even Smarter Alaris pump, $187,500

09/2013 PI, Society for Simulation in Healthcare, $5,000

09/2013 Co-I, AHRQ R18 proposal with UF CoN, Simulation Team Training for Timely Intervention during Respiratory Deterioration.

09/2013 PI, Proposal to TeleFlex for upgrade (addition of simulated US guidance and other features) of 2 Central Venous Access (CVA) mixed reality simulators originally supplied by UF, $40,000

05/2013 Co-I, 3-yr proposal submitted May 22, 2013 to AHRQ – Neff, Lampotang, Stechmiller: Simulation Team Training for Timely Intervention during Respiratory Deterioration. Agency Healthcare Res & Quality (AHRQ): 04/01/2014-03/31/2017

05/2013 Co-I, Dore, Hurley, Lampotang. Training in Neuroscience of Perioperative and Critical Care Medicine T-32 proposal submitted to NIH NINDS on May 25, 2013

10/2012 PI, Simulator-based usability study submitted to Scott Hunsaker, Covidien, $70,000

10/2012 PI, Philips, AX700 IntelliSave Anesthesia Machine Simulator, $123,749

10/2012 PI, LoI to CoM for proposal Patient Variability Modeling & Simulation as Clinical and Translational Science, $100,000

09/2012 PI, Dräger, Comparing wash-out and wash-in in Perseus and Avance anesthesia machines, $40K

09/2012 Co-I, with Neonatology faculty Michael Weiss, MD, March of Dimes, $100K per year over 3 years

08/2012 PI, Covidien, Study protocol for TopVent urine drainage study, $82,23707/2012; PI, TeleFlex, Simulation deliverables for central venous access, $239K

06/2012 PI, Proposal to Clinical Quality Award program: Web-enabled simulation for improving low compliance with Shands CAUTI (Catheter Associated Urinary Tract Infection) prevention policy of avoiding dependent (hanging) loops in urine drainage tubing, $49,347

05/2012 Co-I, with Neonatology faculty Michael Weiss, MD Using social media and the web to disseminate best practices for managing neonatal brain injury. AHRQ 3-year, $900,000

05/2012 Key personnel on NIH T32 by Dore and Hurley: Training in Neuroscience in Perioperative and Critical Care Medicine

03/2012 PI, Covidien, Clinical study on TopVent urine drainage system, $82,237

03/2012 Key Personnel, Proposal (3-yr, $275K proposal to improve pain education in all 4 years of medical school – PI, Hurley) to Altarum Institute/Palladian Partners REQUEST FOR PROPOSALS National Institutes of Health Pain Consortium Centers of Excellence in Pain Education (CoEPEs): Fundamentals of Pain Medicine

02/2012 PI, UF Department of Neurosurgery, Adding a new inner brain to the ventriculostomy simulator, $2,675 (no IDC)

12/2011 PI, UF & Shands Clinical Quality Award program, Web-enabled simulation for improving low compliance with Shands CAUTI prevention policy of avoiding dependent loops, $49,347

2011 Co-I, Venous Air Embolism (VAE): A Widespread and Likely Fatal Complication and the Development of a Multidisciplinary Simulation Model for the Education of the Physiology, Detection and Management of VAE, $49,347

06/2011 PI, Henry Ford Hospital, Skull only ventriculostomy simulator, $4,310

06/2011 PI, CareFusion, Scaled down skin prep simulator, web site, credentialing and study, $125,000

06/2011 PI, Henry Ford Hospital, Ventriculostomy simulator, $30,000

06/2011 PI, TeleFlex Medical, CVL simulators, $200,000

06/2011 PI, CareFusion, Skin prep simulator, web site, credentialing and study, $625,000

03/2011	Co-I, I. Heermann Anesthesia Foundation, Virtual Humans as Pinch Hitters for Simulation Team Training on Transfer of Care, $100,000
02/2011	PI, NIDDK/National Institutes of Health, Does the absence of dependent loops in urine drainage tubing decrease catheter associated urinary tract infection? $402,875
01/2011	Co-I, UF CTSI grant program, Does the absence of urine-filled loops in urine drainage tubing decrease Catheter Associated Urinary Tract Infections? $25,000
01/2011	Co-I, Agency for Healthcare Research and Quality's Advances in Patient Safety through Simulation Research Program, Identification and training of psychomotor mechanisms underlying expertise in cardiothoracic anesthesiology, $202,244
10/2010	PI, UF College of Medicine as part of UF Opportunity Fund, Hospital-acquired infection from urine-filled dependent loops in drainage tubes: Clinical, epidemiological and physiological investigations and evaluating potential technical and educational solutions, $100,000
09/2010	NPSF, Hospital-acquired infection from urine-filled drainage tubes: Clinical, epidemiological and physiological investigations and evaluating potential technical and educational solutions, $99,592
08/2010	PI, Medical Education technologies, Inc., Testing of volatile anesthetic modeling on the Human Patient Simulator, $3,000
07/2010	UF & Shands screening for Arthur Vining Davis Foundation, Understanding and enhancing healthcare provider quality compliance with best practices, $200,000
07/2010	PI, Agency for Healthcare Research and Quality, Effects of simulation training on clinician empathy, risk perception, and checklist compliance, $689,24406
2010	PI, Cook Medical, CVC Simulation and Web Site, $200,000
05/2009	PI, Eisai, Inc., Panoramic simulation of conscious sedation, $130,000
04/2008	PI, MGI Pharma, Educational panoramic simulation of fospropofol use during conscious sedation, $117,200
03/2008	PI, MGI Pharma, Proposal for panoramic simulation of conscious sedation, $100,000
2007	Co-I, National Institutes of Health, Identifying and training mechanisms of expertise in cardiothoracic anesthesiology, $20,432
08/2007	Co-I, NSF Advanced Learning Technology program, Educating STEM (Science, Technology, Engineering and Mathematics) concepts, $487,184
07/2007	Co-I, National Patient Safety Foundation, Can Visual-Spatial Cognitive Impairments in Surgeons be Predicted and Remediated? $100,000
05/2007	PI, I. Heermann Anesthesia Foundation, Adding mixed reality to manikin-based simulation, $60,000
03/2007	Co-I, UF CME Office, Can Visual-Spatial Cognitive Impairments in Surgeons be Predicted and Remediated? $20,000
05/2006	PI, Agency for Healthcare Research and Quality, Can simulation alter clinician risk perception and pre-procedural behavior? $420,566
04/2006	Co-I, NSF Advanced Learning Technologies, A Learner-centered interactive and dynamic e-learning technology for instruction and learning, $168,054
2006	PI, MGI Pharma, Lampotang S, Gravenstein N: Educational, panoramic simulation of fospropofol use during conscious sedation, $117,200
05/2005	Co-I, NSF Advanced Learning Technologies, Dynamic and collaborative e-learning technologies and their application and assessment in medical simulation and instruction, $182,425 for Anesthesia share out of $559,864
02/2005	PI, NSF, Lampotang S, Fischler I, Beck H, Su S, Legg SM: Center for the Science of Learning with Simulation. A 10-year, $50M proposal to NSF submitted 2/24/2005
12/2004	PI, Molecular Meds, Proposal for the simulation of CO2 absorption, $29,500
07/2004	PI, Saturn Medical, Educational simulation of the Glidescope video laryngoscope, $15,000
02/2004	Co-I, Bayer, Web simulation, web site and curriculum for aprotinin, $150,000
02/2004	PI, Abbott Laboratories, Web education on sevoflurane fires, $100,000

01/2004 PI, UF RGP Opportunity Incentive Seed Fund, The science of learning with simulation - UF Medical Simulation Center, $100,000

Patents Issued:

04/2017 Lampotang S, Gravenstein N, Lizdas DE, Luria IT: US Patent 9,626,805 B2, Interactive mixed reality simulator and uses thereof

08/2014 Gravenstein D, Rice M, Lampotang S, Gravenstein N, Deitte L: US Patent Number 8,818,472 Methods and devices for noninvasive measurement of energy absorbers in blood

12/2013 Lampotang S, Lizdas DE, Tumino JJ, Gravenstein N: US Patent Number 8,605,133, Display-based interactive simulation with dynamic panorama

10/2013 Gravenstein N, Esener D, Lampotang S, Gilmore MD: US Patent Number 8,544,115, Materials and methods for maintaining proper body temperature. Licensed to William Sports Group

07/2012 Melker RJ, Bjoraker DG, Lampotang S: US Patent 8,211,035, System and method for monitoring health using exhaled breath

08/2011 Hickle RS, Lampotang S: US Patent 7,997,271, Apparatus and method for mask free delivery of an inspired gas mixture and gas sampling

10/2010 Lampotang S, Melker RJ, Silverman DN: US Patent 7,820,108, Marker detection method and apparatus to monitor drug compliance. Licensed to Xhale

07/2009 Hickle RS, Lampotang S: US Patent 7,559,483, Smart supplies, components and capital equipment. Licensed to J&J EES

11/2007 Hickle RS, Lampotang S: US Patent 7,299,981, Smart supplies, components and capital equipment. Licensed to J&J EES

01/2007 Melker RJ, Banner MJ, Lampotang S: US Patent 7,156,095, Blanch PB, Euliano NR, Carovano RG:, Hybrid microprocessor controlled ventilator unit. Licensed to Philips

12/2006 Hickle RS, Lampotang S: US Patent 7,152,604, Apparatus and method for mask free delivery of an inspired gas mixture and gas sampling, Licensed to J&J EES

10/2006 Lampotang S, Lizdas DE, Liem EB: US Patent 7,128,578, Interactive simulation of a pneumatic system

12/2005 Melker RJ, Banner MJ, Lampotang S, Blanch PB, Euliano NR, Carovano RG: US Patent 6,976,487, Ventilatory method utilizing body length-based parameter calculations

07/2003 Lampotang S, Langevin P: US Patent 6,597,939, A method and apparatus for coordinating an event to desired points in one or more physiological cycles.

04/2002 Lampotang S, Langevin P: US Patent 6,370,419, A method and apparatus for triggering an event at a desired point in the breathing cycle

11/2001 Gravenstein D, Lampotang S, Melker RJ, Gabrielli A: US Patent 6,322,498, Imaging scope

08/2001 van Meurs WL, Lampotang S, Good ML, Euliano TY, Beneken JEW, Carovano RG, Ellis MF, Azukas JB, McClure MW, de Beer NAM, Gravenstein JS: US Patent 6,273,728, Life support simulation system simulating human physiological parameters. Licensed to Loral/METI

2000 Gravenstein D, Gravenstein N, Melker RJ, Lampotang S, Sultan A: US Patent 6,161,537, Transtracheal energy application and sensing system for intubation: method and apparatus

2000 Lampotang S, van Oostrom JHM: US Patent 6,135,105, Lung classification scheme: a method of lung class identification and inspiratory waveform shapes

2000 Lampotang S, Gravenstein JS, van Oostrom JHM: US Patent 6,131,571, Ventilation apparatus and anesthesia delivery system

2000 Gravenstein D, Lampotang S, Melker RJ: US Patent 6,115,523, Plastic optical fiber airway imaging system

1999 Melker RJ, Banner MJ, Lampotang S, Blanch PB, Euliano N, Carovano RG: US Patent 6,000,396 Hybrid microprocessor controlled ventilator unit

1999 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,941,710, Apparatus and method of simulating the determination of continuous blood gases in a patient simulator. Licensed to Loral/METI

1999 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,890,908, Apparatus for and method of simulating the injection and volatilizing of a volatile drug. Licensed to Loral/METI

1999 Lampotang S, Melker RJ, Blanch PB, Rijhwani A: US Patent 5,887,611, Gas blender

1999 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,882,207, An apparatus and method for quantifying fluid delivered to a patient simulator. Licensed to Loral/METI

1999 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,868,579, Apparatus and method for simulating lung sounds in a patient simulator. Licensed to Loral/METI

1998 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,779,484, Apparatus and method of simulating breathing sounds. Licensed to Loral/METI

1998 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,772,443, An apparatus and method of detecting and identifying a drug. Licensed to Loral/METI

1998 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,772,442, An apparatus for and method of simulating bronchial resistance or dilation. Licensed to Loral/METI

1998 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,769,641, Apparatus for and method of synchronizing cardiac rhythm related events. Licensed to Loral/METI

1997 Gravenstein D, Gibby G, Lampotang S: European Patent Office, 0440745, Method for noninvasive intermittent and/or continuous hemoglobin, arterial oxygen content, and hematocrit determination

12/1996 Lampotang S, van Meurs WL, Good ML, Gravenstein JS, Carovano RG: US Patent 5,584,701, Self-regulating lung for simulated medical procedures. Licensed to Loral/METI

10/1996 Gravenstein D, Gravenstein N, Melker RJ, Lampotang S, Sultan A: US Patent 5,560,351 Transtracheal energy application and sensing system for intubation: method and apparatus

02/1995 Lampotang S, Good ML, Gravenstein JS, Carovano RG: US Patent 5,391,081, Method and apparatus for simulating neuromuscular stimulation during medical surgery. Licensed to Loral/METI

01/1993 Gibby GL, Lampotang S, Hathiram D, Gravenstein N: US Patent 5,180,896, System and method for in-line heating of medical fluid

10/1992 Lampotang S, Gravenstein JS, Gravenstein N, Banner MJ, Gravenstein D: US Patent 5,156,159, CO_2 diagnostic monitor with rupturable container

04/1992 Gravenstein D, Beneken JEW, Lampotang S, Gravenstein N, Brooks MA, Gibby GL, Atwater RJ: US Patent 5,101,825, Method for non-invasive, intermittent, and/or continuous hemoglobin, arterial oxygen content and hematocrit determination

05/1990 Lampotang S, Gravenstein D, Gravenstein JS, Gravenstein N, Banner MJ: US Patent 4,928,687, CO2 diagnostic monitor

1989 Banner MJ, Blanch PB, Lampotang S: Co designed an adult/pediatric transport ventilator marketed since 1989 by Hamilton Medical as the Max transport ventilator under license from the University of Florida

10/1987 Gravenstein JS, Lampotang S: US Patent 4,702,241, Self-contained jet pump breathing apparatus

Patent Applications:

09/2018 Lampotang S, Lizdas D: Guidance and Tracking System for Targeted Biopsy and Treatment, UF#-17441 (222110-8630)

12/2015 Lampotang S, Lizdas D, Luria I, Gravenstein N: Continuation Patent Interactive Mixed Reality Simulator, UFW-13392/SLE ref UF.917XCD1

01/2016	Lampotang S, Lizdas D, Ihnatsenka B: Provisional patent "Simulation Features Combining Mixed Reality and Modular Tracking" UF#-15508; SLE ref UF.1220P
01/2016	Kumar R, Lampotang S: UF #16099, Radiofrequency ablation to shrink thickened ligamentum flavum in lumbar spinal stenosis
01/2015	Lampotang S, Lizdas DE, Ihnatsenka B: Serial No. 62/101,997, UF.1220P (UF#15508), Simulation Features Combining Mixed Reality and Modular Tracking
05/2013	Ihnatsenka, Lampotang, Lizdas, Gravenstein D, Boezaart: Serial No. 61/824,559; UF.1095P (UF#14445) Enhanced Ultrasound Imaging Interpretation and Navigation) Provisional patent filed 5/17/13
05/2013	Gravenstein N, Lampotang, Lizdas, Bisht: Serial No. PCT/US13/41590; UF.1044XC1PCT, Patient in-the-loop Participatory Care and Monitoring. PCT application filed 5/17/13
03/2012	Lampotang S, Gravenstein N, Schwab WK, Lizdas DE, Enneking FK: WO 2012/033906 A2, Context-sensitive flow interrupter and drainage outflow optimization system
09/2011	PCT patent application for dependent loop management
09/2010	Lampotang S, Gravenstein N: UF #13512, Ladder catheter drainage outflow and backpressure prevention optimization system
08/2010	Tighe PJ, Gravenstein N, Lampotang S, Boezaart A: UF #13486, Airway support device with integrated provision of oxygenation and ventilation
06/2010	Lampotang S, Lok B, Fishwick PA, Quarles JP: US Patent application 20100159434, Mixed Simulator and Uses Thereof
07/2006	Lampotang S, Gravenstein N: US Patent Application 20060150970, Apparatus and methods to titrate O_2 content delivered to open delivery systems and mitigate fire risk
03/2006	Lampotang S, Gravenstein N: US Patent Application 20060060199, Self-inflating resuscitation system

PART III: TEACHING CONTRIBUTIONS

Advisor and Mentoring:

University of Florida College of Medicine, Department of Anesthesiology

Advisor for Faculty:

2020/12	Perry Johnson, PhD
2020/12	Barys Ihnatsenka, MD
2019-Present	Geoffrey Panjeton, MD
2019- Present	Rene Przkora, MD
2018-2019	Brandon Otto, MD Department of Urology
2017-Present	Anthony M. Cometa, MD
2017-Present	Brandon Lopez, MD
2017-Present	Cameron R. Smith, MD
2016-Present	Robert Butch Loeb, MD
2016-Present	Joshua Sappenfield, MD
2016-Present	Felipe Urdaneta, MD
2015-Present	Jeffrey White, MD
2016	Sangchun Choi, MD (Simulation Fellow, Ajou University, South Korea)
2013-2016	William Brit Smith, MD
2013-Present	Adam Wendling, MD
2013-Present	Barys Ihnatsenka, MD
2010-Present	Albert Robinson, III, MD

Advisor for Residents:

2020-Present	Nickolas Garson, MD (UF Ophthalmology)
2017-Present	Isaac Luria, MD

2015-2019 Joseph LaGrew, MD
2015-2019 Catherine Jane Coleman, MD
2014-2016 Shazia Mohammad, MD
2014-2015 Heather Reed, MD
2013-2014 Amelia Fiastro, MD
2013 Gregory Goldenhersh, MD
2007-2008 Sinan Yavas, MD
2006-2007 Gautam Sehgal, MD
2004-Present Nicole Dubija, MD
1999-2001 Edwin Liem, MD
1997 John Hall, MD
1997 Bai Xi Chen, MD
1992 Dietrich Gravenstein, MD

Advisor to Graduate Students:

2019 Tanay Poddar, (SSTP Summer Scholar Student), Development of software for simulated Fluroscopic visualization.
2019 Siddarth Pinnamaneni, (SSTP Summer Scholar Student), Development of the physical model for a Mixed Reality Pericardiocentesis Simulator
2019 Dylan Smurlick, (SSTP Summer Scholar Student), Development of the physical model for a Mixed Reality Lumbar Regional Anesthesia Simulator
2017 Tufan Asli Sezer, PhD candidate in Education, Hacettepe University, Turkey, Simulation Fellow, CSSALT
2003 Eric Barroso

Advisor to Undergraduate Students (Research):

2019-Present Noah Smith
2019-2019 Will Sutton
2019-Present Illana Zarour
2019-2020 Stephen Berkner
2019-2019 Nathalia Bedoya
2019-Present Sreejith Kumar
2019-2020 Clancy Cornell
2019-2019 Drew Gill
07/18-08/18 Patrick Liem, Miami Ohio College, internship at CSSALT
2018-Present Kian Tartibi
2018-2018 Holly Vu
2018-2019 Abigail Jetter
2018-2019 Nicole Williamson
2018-2019 Chai Guthikonda
2017-2018 Kenny Pitt
2017-2020 Andre Bigos
2016-2019 Monica Bursian-Ortiz
2016-2019 Jonathon Wakim
2016-2018 Megan Zimmerman
07/2000 David Lizdas
05/98-Present Justin Cort Sanchez, Engineering Sciences
11/98-06/00 Walter Dobbins, Electrical Engineering
10/98-04/99 Todd Gjervold, Mechanical Engineering
1998 Michael Wenning, Electrical and Computer Engineering

05/97-Present Jovanni Conway, Engineering Sciences
05/97 Scott Gilloon, Electrical Engineering
06/96-05/97 Ryan Chin, Engineering Sciences
08/94 Jim Clift, Engineering Sciences
06/93-05/96 Chris Auzins, Electrical Engineering

Mentoring for Anesthesiology Residents:
8/25/20 Suprun/Hutchinson – OTL disclosures
2015-2019 Joseph LaGrew, MD
2014-Present Shazia Mohammad, MD
2012-2016 Gregory Goldenhersh, MD
2006-2007 Gautam Sehgal, MD
2004-2012 Nicole Dobija, MD

Supervisor for:
07/19-Present Vincet Mei, BA student
06/19-07/19 Tanay Poddar, Student Science Training Program (SSTP)
06/19-07/19 Siddarth Pinnamaneni, Student Science Training Program (SSTP)
06/19-07/19 Dylan Smurlick, Student Science Training Program (SSTP)
06/18-07/18 Eric Thivierge, Student Science Training Program (SSTP)
06/18-07/18 Gave Flechas, Student Science Training Program (SSTP)
2017-2018 Evan Maroun, undergraduate simulation volunteer
2017 Baris Sezer, PhD, Hacettepe University, Turkey; Simulation Fellow, CSSALT
2017-2018 Chandler Griffin, BS
2016-Present Travis Johnson, BS, Simulation Engineer
2015-Present Anthony DeStephens, MS, Simulation Engineer
2013-2015 Drew Gonsalves, MS, Simulation Engineer
07/12-05/13 Gregory Goldenhersh, MD, Simulation Engineer
2009-07/12 Isaac Luria, MS, Simulation Engineer
2000-Present David E. Lizdas, BSME, IT Expert

Mentoring for visiting Fellowships:
9/15/20 Yahya Acar, MD, Gulhane University, Turkey
8/17/20 Dr. Gulsen Tasdelen-Teker, review of SIH manuscript Simulation-based Assessment of Pediatric Healthcare Providers: A Generalizability Theory Study.
2018-2019 Dr. Zhou Zhang, China
2019 Dr. Gulsen Tasdelen Teker, Turkey
Yichao Yu
Jonathan Wakim
Patrick Shenot
Jason Lee, Nathan Perlis
Louis Moy
William T. Johnson
Anthony DeStephens
Andre Bigos
David Lizdas

Morning Conferences:
Surgical Safety Initiative
1/30/2015 Mandatory attendance lecture: Clinical Team Training with Virtual Humans at UF Health

University of Florida College of Medicine, Department of Anesthesiology

12/2020	Distanced training in procedural skills during COVID-19 CME Case Conference M&M
02/2020	Hands-on performance of Anesthesia Machine Pre-use Check on an intact anesthesia machine
01/2020	The Anesthesia Machine: Simulation Based Learning, M&M Lecture
01/2020	The Anesthesia Machine: Basic Lecture Series
09/2019	The Anesthesia Machine Pre-Use Check
03/2019	The Anesthesia Machine: Simulation Based Learning, M&M Lecture
11/2016	Propofol and race, Friday M&M Lecture
06/2016	Sugammadex Lecture
12/2015	PK/PD in Anesthesia, Morning Lecture
10/2015	Preventing and Managing Surgical Fires
09/2015	Managing Failure Modes of Anesthesia Machines
09/2015	Normal Operation of Anesthesia Machines
07/2015	Anesthesia Machine Pre-Use Check
07/2014	Anesthesia Machine Pre-Use Check
07/2014	Normal Operation of Anesthesia Machines
07/2014	Managing Failure Modes of Anesthesia Machines
08/2014	Preventing and Managing Surgical Fires
07/2013	The Virtual Anesthesia Machine
08/2013	Failure Modes of Anesthesia Machines
11/2012	The Virtual Anesthesia Machine
05/2012	Interns lecture, The anesthesia machine pre-use check, part 2
05/2012	Interns lecture, The anesthesia machine pre-use check, part 1
02/2012	CA1-Small Groups, Troubleshooting the anesthesia machine
09/2010	Simulation in Anesthesia
08/2010	Simulation in Anesthesia: The Virtual Anesthesia Machine
07/2010	Simulation in Anesthesia: The anesthesia machine
07/2010	Simulation in Anesthesia: The Virtual Anesthesia Machine
08/2007	Simulation in Anesthesia: The anesthesia machine
02/2007	Simulation in Anesthesia: Troubleshooting the anesthesia machine
01/2007	Simulation in Anesthesia: The anesthesia machine pre-use check
07/2006	Simulation in Anesthesia: The anesthesia machine
07/2005	Simulation in Anesthesia: The anesthesia machine
07/2004	Simulation in Anesthesia: The anesthesia machine
08/2003	Simulation in Anesthesia: The APSF anesthesia machine workbook: high pressure system
07/2003	Simulation in Anesthesia: Mechanics: The anesthesia machine, the anesthesia machine check
07/2002	Simulation in Anesthesia: The anesthesia machine
03/2002	Simulation in Anesthesia: Virtual Anesthesia Machine
07/2001	Simulation in Anesthesia: Mechanics I: the anesthesia machine
08/2000	Simulation in Anesthesia: Anesthesia machines and breathing circuits
07/2000	Simulation in Anesthesia: Anesthesia machine pre-use check
07/1999	Simulation in Anesthesia: Ventilators and breathing circuits
07/1999	Simulation in Anesthesia: Anesthesia machine pre-use check

Simulator Sessions:

University of Florida College of Medicine, Department of Anesthesiology

09/14-Present	Maintenance of Certification in Anesthesiology (MOCA) simulation sessions (**32** sessions)
05/94-05/14	Anesthesia Course for Engineers and Marketing Personnel (ACEM). Courses scheduled 2-5 times yearly

Pre-Use Machine Check for Anesthesiology Interns:

01/2020	Hands-on performance of Anesthesia Machine Pre-use Check on an intact anesthesia machine
01/2018	Hands-on performance of Anesthesia Machine Pre-use Check on an intact anesthesia machine
07/2016	Hands-on performance of Pre-use check on an anesthesia machine with planted faults
07/2016	Hands-on performance of Anesthesia Machine Pre-use Check on an intact anesthesia machine
07/2015	Hands-on performance of pre-use check on an anesthesia machine with planted faults
07/2015	Hands-on performance of Anesthesia Machine Pre-use Check on an intact anesthesia machine
11/2014	VAM and anesthesia machine pre-use check for interns, 2 hours
11/2014	VAM and anesthesia machine pre-use check for interns, 2 hours
06/2012	8 interns taught, 4 separate sessions
06/2012	7 interns taught, 3 separate sessions

Pre-Use Machine Check for Anesthesiology Residents:

05/2018	Boot camp for UF MS4s accepted in Anesthesia Residency programs at UF (5) and outside UF (3) with machine check and CVA, US and RA simulators
09/2013	Evening anesthesia machine training session for In Training Exam (ITE)
07/2013	18 residents taught, 6 separate sessions
09/2011	ITE training sessions for residents (led by Mark Rice, MD)
11/1999	Pre-use Machine Check for Shands Hospital Block Room Nurses
07/93-07/16	Instruction to incoming residents (taught every July; between 2 and 5 days)

Other Teaching:

University of Florida College of Engineering and Other Colleges

2014-Present	Andrew Cordar, Computer and Information Science and Engineering, Doctoral candidate, CoM adviser
2013	Ashvin Ramachandran, BME Master's candidate, semester project
11/12-08/13	Joon Hao Chuah, Computer and Information Science and Engineering, Member, Doctoral supervisory committee
02/2012	Demo of simulators and doctoral research opportunities to BioMedical Engineering Department PhD applicants
2012	Tom Cowan, Biomedical Engineering Master's project
2011-2015	Andrew Robb, Computer and Information Science and Engineering, Member, Doctoral supervisory committee
10/2011	Demo of simulators to College of Education class EDG 6931: Games and Simulations for Teaching and Learning taught by Al Ritzhaupt
2006-2009	Aaron Kotranza, Computer and Information Science and Engineering, Member, Doctoral supervisory committee
2006-2011	Sungwook Moon, Computer and Information Science and Engineering, Member, Doctoral supervisory committee
2005-2010	John Quarles, Computer and Information Science and Engineering, Member, Doctoral supervisory committee
09/10-12/12	Zach Ezzell, Computer and Information Science and Engineering, Member, Doctoral supervisory committee
12/2003	BME 6936: Biomedical Engineering Seminar: The Virtual Anesthesia Machine - Interactive Simulation on the Web
12/1999	EGM 6934: Biomedical Engineering and Physiology: Intellectual Property of the Human Patient Simulator
09/1999	EMA 6938: Biomedical Engineering Seminar: A cervical motion sensor for the human patient simulator
12/1998	EGM 6934: Biomedical Engineering and Physiology: How the Intellectual Property of the Human Patient Simulator Is Protected

04/1998 Biomedical Engineering Seminar: Plastic Optical Fiber Imaging Stylet
12/1997 Neuroanesthesia, Simulator Problem-Based Learning Session
12/1997 Intracranial pressure, Simulator Problem-Based Learning Session University of Florida College of Engineering
11/1997 EGM 3900: Introduction to Biomedical Engineering Design
11/1997 EGM 4901: BioFluids
09/1997 EGM 3900: -Introduction to Biomedical Engineering Design
04/1997 EEL 4930: Biomedical Signals: Measurement and Processing
03/1996 EGM 3900: Introduction to Biomedical Engineering Design
02/1995 EGM 3900: Introduction to Biomedical Engineering Design
01/95-05/96 Aneel Rijhwani, Electrical Engineering
03/1994 EEL 5934: Medical Instrumentation
02/1994 EGM 3900: Introduction to Biomedical Engineering Design
10/92-11/92 Ashish Desai, Electrical Engineering

University of Florida College of Medicine, Department of Physiology
1993-2000 Respiratory physiology instruction for first-year medical students using the Human Patient Simulator (5 days, annually)

University of Florida College of Dentistry
01/2008 Simulation education at the UF Health Science Center and avenues for collaboration

University of Florida College of Nursing
02/2008 Presentation of the VAM website

University of Florida Office of Academic Technology
11/2004 Presentation on transparent reality simulation and e-learning for the Faculty Showcase

University of Florida Simulation Faculty Learning Community
04/2008 Screen-based, web-enabled, and panoramic simulations

Outside University of Florida
06/2018 Hands on Workshops with British Columbia Children's Hospital with the UST, RA and CVA MI Simulators, Vancouver, Canada
11/2017 Sick Kids Workshop Regional Anesthesia for the Pediatric Anesthesiologists with Tobias Everett, MD. Toronto, Canada
11/2017 Sick Kids Lecture Introduction to the technology-mixed reality in regional anesthesia training. Toronto, Canada.
5/2000 Outside Reviewer for Scott Kofoed, PhD Candidate University of Utah, Department of Bioengineering
1997 Colin Cheungseekit, Supervisor for Student Coop Work Term, University of Waterloo, Ontario, Canada Cooperative Education Career Services,
1994 Marnix van Kempen, Faculty Supervisor for Engineering Graduate Student, University of Technology, Eindhoven, The Netherlands

Visiting Professorships:
06/2018 BC Children's Hospital, Vancouver, Canada
01/2017 Sick Kids, Toronto, Canada
01/2017 Toronto Western Hospital, Toronto, Canada
01/2017 Sunnybrook Hospital, Toronto, Canada
09/2016 Universitair Ziekenhuis Antwerpen (UZA), Antwerp, Belgium

06/2016 Shanghai First Maternity and Infant Hospital, Pudong, Shanghai, China
01/2014 Stanford University, Palo Alto, California
02/2014 Northwestern University, Chicago, Illinois
02/2012 Northwestern University, Northwestern Memorial Hospital, Chicago, Illinois
09/2010 University of Toronto Wilson Centre/Toronto General Hospital, Toronto, Ontario, Canada
09/2009 Northwestern University, Northwestern Memorial Hospital, Chicago, Illinois
06/2008 Brigham and Women's Hospital, Boston, Massachusetts
04/2008 Hospital for Special Surgery, New York, New York
09/2007 Northwestern University, Northwestern Memorial Hospital, Chicago, Illinois
06/2006 Hôpitaux Universitaires de Genève, Département d'anesthésiologie, Geneva, Switzerland
11/2005 Northwestern University, Feinberg School of Medicine, Chicago, Illinois
09/2004 Beijing Union Medical College Hospital, Department of Anesthesiology, Beijing, China
09/2004 Beijing Institute of Heart, Lung and Blood Vessel Diseases, An Zhen Hospital of Capital University of Medical Science, Beijing, China
11/2003 University of Miami, Department of Anesthesiology Miami, Florida
07/2003 Universidad Veracruzana, Hospital Escuela de Ginecologia y Obstetricia, Veracruz, Mexico
12/2002 University of California Davis Medical Center, Sacramento, California
09/2002 Jiangsu Province Hospital, Nanjing, China
09/2002 Nanjing Medical University, Department of Anesthesiology, Nanjing, China
08/2000 St. Michaels Hospital, University of Toronto, Toronto, Canada
12/1999 State University of New York, Stony Brook, New York
10/1998 Hong Kong University, Hong Kong, China
09/1998 University of Toronto, Toronto, Ontario, Canada
08/1998 University of North Carolina, Chapel Hill, Chapel Hill, North Carolina
04/1995 Sapporo Medical College, Sapporo, Japan
04/1995 Hokkaido University School of Medicine, Sapporo, Japan

Lectures, Speeches, Demonstrations, Posters Presented at Professional Conferences:

International:

10/09/21 Lampotang S. A1040: Panoramic, Screen-based Simulator Of Neuromuscular Blockade Administration, Monitoring And Reversal. Saturday, Oct 9, 2021. American Society of Anethesiologists annual Meeting, San Diego, CA

10/05/20 Smith C, DeStephens A, Lizdas D, Johnson WT, Lampotang S. Design and Development Of A Mixed Reality Simulator For Regional Anesthetic Blocks Of The Head And Neck. Monday Oct 5, 2020 10:00 AM - 11:00 AM (Oral Presentation), American Society of Anesthesiologists Annual Meeting, Virtual.

10/04/20 Nader M, Tasdelen-Teker G, DeStephens A, Lampotang S, Prelipcean I, Smith R, Bortcosh B, Chiriboga Salazar N, Martinez Schlurmann N, Hamdan U, Pareja Munoz J. Simulation Use in Outreach Setting: A Novel Approach to Building Sustainability. Sunday Oct 4, 2020 4:00 PM - 5:00 PM. (Oral Presentation), American Society of Anesthesiologists Annual Meeting, Virtual.

10/04/20 Teker GT, Nader M, DeStephens A, Lampotang S, Pareja Munoz J. Simulation-based Assessment of Pediatric Providers: A Generalizability Study. Sunday Oct 4, 2020 4:00 PM - 5:00 PM. (Oral Presentation), American Society of Anesthesiologists Annual Meeting, Virtual.

10/04/20 Gibby G, DeStephens A, Nystrom S, Johnson W, Lizdas D, Zarour I, Lampotang S. Iterative Learning Control of Peep With An On/off Exhalation Valve In An Emergency Use Ventilator. Sunday Oct 4, 2020 12:00 PM - 1:00 PM. (Oral Presentation), American Society of Anesthesiologists Annual Meeting, Virtual.

10/04/20 Gibby G, Lizdas D, DeStephens A, Johnson W, Niemi S, Zarour I, Kiley S, Nichols J, Tighe P, Lampotang S. Design, Build, And Evaluation of A Low-cost Pandemic Ventilator With Non-

ventilator Supply Chain Parts. Sunday Oct 4, 2020 10:00 AM - 11:00 AM. (Oral Presentation), American Society of Anesthesiologists Annual Meeting, Virtual.

10/03/2020 Gibby G, Lizdas D, Lampotang S, Niemi S, Zarour I, DeStephens A, Farhan A, Purdum J. Innovative Electronic Non-Linear Expiratory Valve Control in Emergency Ventilator. (Poster Presentation), American Society of Anesthesiologists Annual Meeting, Virtual.

09/2020 SMMARTS: An open architecture development platform for modular, mixed and augmented reality procedural and interventional simulators in anesthesia. WCA 2020, Prague, Czech Republic. September 5-9, 2020.

05/2019 Improving diagnostic accuracy in prostate cancer. University of Mauritius. May 29, 2019.

06/2018 Invited speaker to Grand Rounds, British Columbia Children's Hospital, "Recent Development in Simulation for Procedural Training. Vancouver, Canada.

2017 Invited speaker to World Congress on TIVA-TCI (Total Intra Venous Anesthesia/Target Controlled Infusion), 28-30 September 2017, "Race-specific simulation and modeling of propofol-induced loss of consciousness," Timisoara, Romania

09/2016 Advancing Patient Safety in Belgium, A National Simulation Center, Universitair Ziekenhuis Antwerpen (UZA), Antwerp, Belgium

09/2016 What have we learned from the Virtual Anesthesia Machine (VAM)? NAVAt (Automated Low Flow Anesthesia & Visual Drug Display Systems) meeting, Aalst, Belgium

06/2016 Race-Specific Propofol Pharmacodynamics and Sugammadex Screen-Based Simulation, Roche Laboratories, Shanghai, China

06/2016 Unlike History, Should a Simulator not Repeat Itself? International Multidisciplinary SIMulation meeting, Shanghai, China

06/2016 Simulation-Based Training in OR Teamwork Using Virtual Humans, International Multidisciplinary SIMulation meeting, Shanghai, China

08/2015 Normal operation of anaesthesia machine, Association of Anesthesiologists of Mauritius XXIII Annual Scientific Conference, Le Méridien Hotel and Resorts, Pointe aux Piments, Mauritius

08/2015 Surgical fire prevention and management, Association of Anaesthesiologists of Mauritius XXIII Annual Scientific Conference, Le Méridien Hotel and Resorts, Pointe aux Piments, Mauritius

08/2015 Understanding and Managing Urine and Chest Drainage Systems, Medical Update lecture, University of Mauritius, Le Réduit, Mauritius

01/2014 A Mixed Simulator of Ethnic Variability to Propofol during Sedation and Analgesia, International Meeting on Simulation in Healthcare, San Francisco, California

06/2013 Virtual Humans in Simulated Clinical Settings, SESAM 2013 lecture, Porte de la Villette, Paris, France

03/2013 Mixed Simulators: Augmented Physical Simulators with Virtual Underlays, IEEE Virtual Reality Orlando, Florida

03/2013 Demonstration of mixed simulators at IEEE VR 2013 FLAVRS (Florida Virtual Reality Simulation) exhibition, Orlando, Florida

02/2013 Mixed reality regional anesthesia simulator for learning psychomotor and cognitive skills related to thoracic epidurals and thoracic paravertebral nerve blocks, World Congress of Regional Anaesthesia and Pain Therapy, Sidney, Australia [poster]

01/2013 An iPad simulation of skin prepping, International Meeting on Simulation in Healthcare, Orlando, Florida [oral presentation]

01/2013 An interactive iPad simulation of torso ultrasonography, International Meeting on Simulation in Healthcare, Orlando, Florida [oral presentation]

01/2013 An interactive iPad simulation of torso ultrasonography, International Meeting on Simulation in Healthcare, Orlando, Florida [poster]

12/2012 Best Emerging Concepts and Innovative Technologies paper presentation: Interservice/Industry Training Simulation and Education Conference (I/ITSEC), Orlando, Florida

12/2012 Demo of UF-designed Central Venous Access simulator: Special event: Interservice/Industry Training Simulation and Education Conference (I/ITSEC), Orlando, Florida

11/2012 Keynote lecture: Emerging I2 (Innovation and Integration) Trends in Simulation Technology, Simulation Summit, Ottawa Convention Centre, Ottawa, Canada

11/2012 Keynote lecture: Emerging I2 (Innovation and Integration) Trends in Simulation Technology, Simulation Summit, Ottawa Convention Centre, Ottawa, Canada

10/2012 Anesthesia Machine Workshop, Annual Meeting, American Society of Anesthesiologists, Washington, DC

10/2012 Monitoring consciousness via pulse oximeter motion artifact, [poster discussion presentation by Dr. Goldenhersh at the American Society of Anesthesiologists annual meeting

07/2012 Importance of simulation in improving clinical outcomes, TeleFlex Medical, Reading, Pennsylvania

03/2012 Simulator-based study of the Draeger Apollo Low Flow Wizard: Preliminary results, World Congress of Anaesthesiologists, Buenos Aires, Argentina [poster]

01/2012 Profiled vessel model for simulating bladder cystometrogram for urine drainage management, International Meeting on Simulation in Healthcare, San Diego, California [invited lecture]

01/2012 Mixed Reality Subclavian Central Venous Access Simulator, International Meeting on Simulation in Healthcare, Serious Games Arcade Exhibit, San Diego, California [scientific exhibit]

01/2012 Profiled Vessel Model for Simulating Bladder Cystometrogram; A Mixed Simulator for Ventriculostomy Practice; and A Mixed Simulator for Subclavian Central Venous Access, Simulation in Healthcare, San Diego, California [posters]

01/2012 Subclavian central venous access simulator, Simulation in Healthcare, San Diego, California [invited lecture]

09/2010 Simulation in Anesthesia at the University of Florida, University of Toronto, Toronto General Hospital, Toronto, Ontario, Canada [invited lecture]

09/2010 Research Opportunities in Simulation, University of Toronto, Wilson Centre, Toronto, Ontario, Canada [invited lecture]

01/2009 Roundtable State-of-the-Art: Serious Games & Virtual Environments in Healthcare, International Meeting on Simulation in Healthcare, Lake Buena Vista, Florida [invited lecture]

01/2009 Writing a winning Simulation Application (Novice), Post Graduate Course International Meeting on Simulation in Healthcare, Lake Buena Vista, Florida [invited lecture]

11/2008 Emerging Technologies and the Future of Educational Simulations – Keynote address, University of Ontario Institute of Technology (UOIT) and the Network of Excellence in Simulation for Clinical Teaching & Learning (NESCTL), Oshawa, Ontario, Canada [invited lecture]

11/2008 Hands-on demonstration of the mixed reality Augmented Primus anesthesia workstation, MEDICA, Düsseldorf, Germany [scientific exhibit]

09/2008 A Mixed Reality System to Enable Collocated After Action Review, International Symposium on Mixed and Augmented Reality (ISMAR), Cambridge, United Kingdom [invited lecture]

08/2008 Simulación en la VAM (Simulations at the Virtual Anesthesia Machine web site) and Localización y solución de problemas en la Maquina de anestesia (Troubleshooting the anesthesia machine), 37th Congreso Argentino de Anestesiologia, Buenos Aires, Argentina [invited lectures]

07/2008 Web-enabled, panoramic and augmented reality simulations, St. Michael's Hospital, Toronto and Allen Waters' Family Simulation Centre, Toronto, Canada [invited lecture]

03/2008 Understanding modern anaesthetic machines; VAM and WFSA; and Inhalation induction with a panoramic, screen-based simulation, World Congress of Anaesthesiologists, Cape Town, South Africa [invited lectures]

01/2008 Simulated anesthesia experience simulation; A panoramic display-based simulation with interactive, dynamic background; and Step-by-step- building of a microsimulator (flatscreen simulator), International Meeting on Simulation in Healthcare, San Diego, California [invited lectures]

09/2008 A panoramic display-based simulation with interactive, dynamic background; Step-by-step building of a microsimulator (flatscreen simulator); and Simulated anesthesia experience simulation, International Meeting on Simulation in Healthcare, San Diego, California [invited lectures]

12/2007 The virtual patient: biosimulation in anaesthesia, EUFEPS Conference on Optimising Drug Discovery and Development: Integrating Systems Approaches into Pharmaceutical Sciences, Basel, Switzerland [invited lecture]

07/2007 Mannequins, simulators and e-learning in medicine, University of Mauritius, Le Reduit, Mauritius [invited lecture]

06/2006 An interactive, web-disseminated, clinical simulation of perioperative coagulation for Liver Transplantation, European Society of Simulation, Porto, Portugal [poster]

01/2006 Applying learning object principles to simulation: the anesthesia machine pre-use check, Annual International Meeting on Medical Simulation, San Diego, California [poster]

06/2006 Sécurité des appareils d'anesthésie: vérification avant utilisation et sa simulation, (Safety of anesthesia equipment: Simulation of the pre-use check), Hôpitaux Universitaires de Genève, Geneva, Switzerland [invited lecture]

06/2006 Simulateurs corps entiers, (Full-scale mannequin patient simulators) and La simulation: du concept à l'utilisation (Risk and Safety in Medicine Day: Simulation: From concept to deployment), Hôpitaux Universitaires de Genève, Geneva, Switzerland [invited lectures]

06/2006 New Territory in Anesthesiology, Japanese Society of Anesthesiologists, Kobe, Japan [invited lecture]

06/2006 New Territory in Anesthesiology, Japanese Society of Anesthesiologists, Kobe, Japan [invited lecture]

01/2006 Transparent Reality Simulation of Perioperative Hemostasis: Preliminary Development and Implementation, International Meeting on Medical Simulation, San Diego, California [poster]

12/2005 Consolidating eLearning Experiences, Partnership in Global Learning, São Paulo, Brazil [invited lecture]

10/2005 Anesthesia Machine Pre-Use Check Survey – Preliminary Results, Annual Meeting of the American Society of Anesthesiologists, World Congress Center, Atlanta, Georgia [poster]

09/2005 Free Educational Simulation of the Anesthesia Machine Pre-Use Check, Chinese Society of Anesthesiologists, Guangzhou, China [invited lecture]

07/2005 Transparent reality simulation and low flow anaesthesia, Association for Low Flow Anaesthesia (ALFA), Bristol Medical Simulation Centre, Bristol, England [invited lecture]

03/2005 Audible indicator of exhalation improves delivered tidal volume during bag valve mask ventilation of a patient simulator, International Anesthesia Research Society, Honolulu, Hawaii [poster]

09/2004 Chinese Virtual Anesthesia Machine Simulation and Workbook, Chinese Society of Anesthesiologists, Beijing, China [invited lecture]

09/2004 The Developing Frontier of Simulation in Anesthesiology Education and Training, Chinese Society of Anesthesiologists, Beijing, China [invited lecture]

04/2004 The Human Patient Simulator, workshop and the Virtual Anesthesia Machine (demonstration), World Congress of Anesthesiology, Paris, France [invited lectures]

04/2004 The Human Patient Simulator, workshop and the Virtual Anesthesia Machine (demonstration), World Congress of Anesthesiology, Paris, France [invited lectures]

06/2004 Workshop Organizer, Partnership in Global Learning, Orlando, Florida [invited lecture]

04/2004 Internationalizing a free anesthesia machine simulation and workbook, World Congress of Anaesthesiology, Paris, France [invited lecture]

07/2003 The Spanish Virtual Anesthesia Machine, Universidad Veracruzana, Hospital Escuela de Ginecologia y Obstetricia, Veracruz, Mexico [invited lecture]

04/2003 The Virtual Anesthesia Machine: An educational experiment combining web simulation and philanthropy, International Conference on College Teaching and Learning, Jacksonville, Florida [invited lecture]

09/2002 Virtual anesthesia machine (VAM), Chinese Society of Anesthesiologists, Nanjing, China [invited lecture]

09/2002 Virtual anesthesia machine (VAM) and The difficult airway, workshop, Jiangsu Province Hospital, Nanjing, China [invited lectures]

09/2002 Virtual anesthesia machine (VAM), Nanjing Medical University, Nanjing, China [invited lecture]

08/2000 Introduction to simulation, University of Toronto, St. Michaels Hospital, Toronto, Canada [invited lecture]

10/1998 The Human Patient Simulator, Queen Mary Hospital, Hong Kong University, Hong Kong, China [invited lecture]

10/1998 Design, implementation and bench evaluation of a system for automatic synchronization of chest radiographs with the inspiratory pause, IEEE Engineering in Medicine and Biology Society, Hong Kong [invited lecture]

09/1998 Cerebral blood flow in a simulated brain, University of Toronto, Toronto General Hospital, Toronto, Ontario, Canada [invited lecture]

03/1998 The University of Florida experience: fiber optic intubation stylet, International Anesthesia Research Society, Orlando, Florida [scientific exhibit]

04/1996 Tidal volume, fresh gas flow and simulated carbon dioxide rebreathing; and A simulator study: monitoring for safety, workshop, Australian Society of Anaesthetists and the World Federation of Societies of Anaesthesiology, Sydney, Australia [invited lecture]

04/1996 The uses of the anesthesia simulator, Australian Society of Anaesthetists and the World Federation of Societies of Anaesthesiology, Sydney, Australia [invited lecture]

04/1995 The University of Florida human patient simulator, Sapporo Medical College, Sapporo, Japan [invited lecture]

04/1995 The University of Florida human patient simulator, Hokkaido University School of Medicine, Sapporo, Japan [invited lecture]

04/1995 Concepts and terminology of anesthesia simulation; The University of Florida/Loral human patient simulator (lecture and workshop); and Simulators for anesthesia crisis management: training in the 21st century, Japanese Society of Anesthesiologists, Hamamatsu, Japan [invited lectures]

04/1995 The human patient simulator, Japanese Society of Anesthesiologists, Hamamatsu, Japan [invited lecture]

03/1994 Education sessions on mechanical faults in the circle system, International Anesthesia Research Society, Orlando, Florida [scientific exhibit]

03/1993 Anesthesia simulators (workshop), European Society of Anaesthesiologists, Brussels, Belgium [scientific exhibit]

1991 The cost of wasted anesthetics, International Anesthesia Research Society, San Antonio, Texas [poster]

03/1991 The cost of wasted anesthetics, International Anesthesia Research Society, San Antonio, Texas [invited lecture]

09/1988 Training in anesthesiology: critical events simulation, Deutscher Anasthesiekongress, Mannheim, Federal Republic of Germany [scientific exhibit]

05/1988 Training in anesthesiology: critical events simulation, World Congress of Anaesthesiologists, Washington, DC [scientific exhibit]

05/1988 Critical events simulation for training in anesthesiology, International Symposium on Computing in Anesthesia and Intensive Care, San Diego, California [scientific exhibit]

National:

10/30/20 **Lampotang S**: Distanced Training in Procedural Skills: presentation as panelist at the session on Procedural-Based Education in the Digital Age. Council of Medical Specialty Societies (CMSS) 2020 Virtual Annual Meeting: Covid-19 and Beyond: Digital Transformation of Healthcare, Education, and Research

03/2020 A rapid development platform for modular, mixed and augmented reality simulators. ACS, Chicago, IL. March 11, 2020. Abstract/Poster/Invited

03/2020 False negative proportions increase with template deviation during simulated, systematic, side-fire prostate biopsy. ACS, Chicago, IL. March 11, 2020. Abstract/Poster/Invited

03/2020 Non-inferiority assessment of a self-study, self-debriefing mixed reality simulator for central venous access. ACS, Chicago, IL. March 11, 2020. Abstract/Poster/Invited

01/2020 A mixed reality simulator of chest tube insertion. IMSH 2020 Government Row, San Diego, CA. 01/18-22/2020. Demo/Presentation/Invited

01/2020 SMMARTS: An open architecture development platform for modular, mixed and augmented reality guided intervention simulators. IMSH 2020 Government Row, San Diego, CA. 01/18-22/2020. Demo/Presentation/Invited

01/2020 False negative proportions increase with mean spatial deviation from a 12-core double sextant template during simulated, systematic, side-fire, TRUS prostate biopsy. 01/20/2020, IMSH 2020 January 2020.Oral Presentation

05/2019 Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. AUA, Brandon Otto presenting. Chicago, IL. May 2019.

01/2019 Self-study and self-debriefing in a mixed reality simulator is non-inferior to human instruction for learning central venous access. IMSH, San Antonio, TX. January 2019. [Poster]

01/2019 Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. IMSH, San Antonio, TX. January 2019. [Poster]

01/2019 Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. IMSH, San Antonio, TX. January 2019. [Poster]

01/2019 Multi-center data of accuracy of simulated TRUS side fire templated prostate biopsy. IMSH, San Antonio, TX. January 2019. [Poster] Oral Presentation

01/2019 Using modular principles to efficiently design and build new simulators for different healthcare procedures. IMSH, San Antonio, TX. January 2019. [Poster]

01/2019 Effect of real-time 3D visualization during simulation-based training on accuracy of templated, 12-core TRUS PBx: Preliminary data. IMSH, San Antonio, TX. January 2019. [Poster]

01/2019 Baseline accuracy of 12-sector sampling in simulated templated transrectal ultrasound prostate biopsy. IMSH, San Antonio, TX. January 2019. [Poster]

01/2019 TRUS Prostate Biopsy simulation demonstration Jefferson University, Philadelphia, PA. Trained 17 people (12 Urology Residents, 2 faculty, 1 fellow, 2 med students) 01/14-01/18/19.

01/2019 Invited speaker Jefferson University “Regional Anesthesia Simulator”, Philadelphia, PA.

10/2018 USSA/AVAA Regional Anesthesia Workshop, Point of Care Ultrasound Workshop (25 participants) 10/12/18, San Francisco, CA, Workshop, Invited

10/2018 Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. ASA, 10/13/18, San Francisco, CA, Poster/Abstract Group Discussion, Invited.

10/2018 Needle tip recoil during loss of resistance assessment: A possible mechanism for false loss of resistance? ASA, 10/13/18, San Francisco, CA, Poster/eAbstract Presentation, Invited.

10/2018 Non-inferiority assessment of a self-study, self-debriefing mixed reality simulator for central venous access. ASA, 10/13/18, San Francisco, CA, Poster/Abstract Group Discussion, Invited.

10/2018 Loss of resistance assessment techniques differ in overshoot into a simulated epidural space. ASA, 10/13/18, San Francisco, CA, Oral Presentation (Tony Cometa), Invited.

10/2018 When millimeters count: Can simulation influence established practice habits? A Simulator Study. ASA Scientific and Education Exhibit, 10/13-10/15/18, San Francisco, CA, Workshop, Invited.

10/2018 Regional Anesthesia Workshop Muscone West 3005, morning session (Interfascial Plane Blocks and Advanced Blocks Workshop) Yury Zasimovich and Linda Le-Wendling taught 40 anesthesiologists thoracic paravertebral & epidural technique on RA simulator, ASA, 10/15/18, San Francisco, CA. Workshop, Invited.

10/2018 Regional Anesthesia Workshop Muscone West 3006, afternoon session (Ultrasound-guided regional anesthesia and analgesia techniques for breast surgery) Kiki Nin taught 40 anesthesiologists thoracic paravertebral & epidural technique on RA simulator. ASA, 10/15/18, San Francisco, CA. Workshop, Invited.

10/2018 Regional Anesthesia Workshop Muscone West 3005, afternoon session (Peripheral Nerve Block Workshop: Ultrasound, Simulation, and Stimulation) Yury Zasimovich and Linda Le-Wendling

taught 40 anesthesiologists thoracic paravertebral & epidural technique on RA simulator. ASA, 10/16/18, San Francisco, CA. Workshop, Invited.

10/2018 Regional Anesthesia Workshop Muscone West 3006, morning session (Regional Anesthesia and Analgesia techniques for rib fractures) Kiki Nin and Linda Le-Wendling taught 17 anesthesiologists thoracic paravertebral & epidural technique on RA simulator. ASA, 10/16/18, San Francisco, CA. Workshop, Invited.

1/2017 Simulating the future of healthcare delivery, Panelist, Research Summit, International Meeting on Simulation in Healthcare, Orlando, Florida

10/2016 Advanced Technology Workshop, Annual Meeting, American Society of Anesthesiologists, Chicago, Illinois

05/2016 Simulation-Based Assessment of Awareness in Medical Students and Anesthesia Providers to Race Differences in Propofol Pharmacodynamics, International Anesthesia Research meeting, San Francisco, California

04/2016 Anesthesia providers are unaware of racial differences in propofol sensitivity, NextMed/MMVR, Los Angeles, California

02/2016 Understanding your work spouse, Anesthesia Machine Workshop, Northwestern University, Chicago, Illinois

10/2015 Anesthesia Machine Workshop, Annual Meeting, American Society of Anesthesiologists, San Diego, California

09/2015 The Zen of Next-Gen Simulator Design, Workshop, Medicine X Ed, Stanford University, Palo Alto, California

12/2012 Best Emerging Concepts and Innovative Technologies paper presentation: A Subset of Mixed Simulations: Augmented Physical Simulations with Virtual Underlays. Interservice/Industry Training Simulation and Education Conference (I/ITSEC), Orlando, Florida

10/2012 Anesthesia Machine Workshop, Annual Meeting, American Society of Anesthesiologists, Washington, DC

08/2012 Adult Learning in Healthcare: Utilizing Advanced Techniques for Improved Patient Outcomes. Lecture at Train the Trainer Course: Ultrasound-Guided Central Venous and Arterial Access: Compliance with Practice, Marriott at the Texas Medical Center, Houston, Texas

08/2012 Samsun Lampotang, Faisal Masud, Jessica Wallace: Faculty at the "Procedural Complications: Recognition and Management" Simulation Station at Train the Trainer Workshop: Ultrasound-Guided Central Venous and Arterial Access: Compliance with Practice, (Workshop) Methodist Institute for Technology, Innovation & Education (MITIE), Methodist Hospital, Houston, Texas

07/2012 Importance of simulation in improving clinical outcomes. TeleFlex Medical, Reading, Pennsylvania

02/2012 An educational simulation of hypoplastic left heart syndrome, Society for Pediatric Anesthesia/American Association of Pediatrics Pediatric Anesthesiology, Tampa, Florida [poster]

10/2011 Subclavian Central Venous Access Mixed Reality Simulator: Preliminary Experience, American Society of Anesthesiologists, Chicago, Illinois [poster]

10/2011 Fluid-filled dependent loops in chest drainage systems impede lung re-inflation in an in-vitro model; Urine drainage tubing configuration affects urinary system outflow pressure in an in vitro model; and Evaluating construct validity of simulation-based OSCE for summative assessment in an anesthesiology teaching program, American Society of Anesthesiologists, Chicago, Illinois

10/2011 Anesthesia Machine Workshop, American Society of Anesthesiologists, McCormick Place, Chicago, Illinois

10/2011 Central venous top gun: clean, true, safe, American Society of Anesthesiologists, Chicago Illinois [scientific exhibit]

10/2011 Using simulation-based education to pinpoint curriculum deficiencies in an anesthesiology teaching program and Fluid–filled dependent loops in chest drainage systems impede lung re-inflation in an in-vitro model, American Society of Anesthesiologists, Chicago, Illinois [posters]

10/2011 Subclavian Central Venous Access Simulators, Association for Vascular Access, San Jose, California [scientific exhibit]

07/2011 Mixed Reality Ventriculostomy Simulator, Society of Neurosurgeons, Atlanta, Georgia [scientific exhibit]

05/2011 Mixed Reality Ventriculostomy Simulator, Society of Neurosurgeons, Portland, Oregon [scientific exhibit]

04/2011 Mixed Reality Ventriculostomy Simulator, American Association of Neurological Surgeons, Denver, Colorado [scientific exhibit]

10/2010 Comparison of Respiratory Effects: Heliox vs. Air/Oxygen Mixture in Laparoscopic Bariatric Surgery, American Society of Anesthesiologists, San Diego, California [poster]

10/2010 Anesthesia Machine Workshop, American Society of Anesthesiologists, San Diego Convention Center, San Diego, California [invited lecture]

01/2010 The Simulation Triangle: Merging Physical, Virtual and Human Simulations, Simulation in Healthcare, Phoenix, Arizona [poster]

10/2009 A healthcare cost simulator of anesthesia in the operating room, Work in Progress Poster Presentation, International Meeting on Simulation in Healthcare, Lake Buena Vista, Florida

10/2009 Fundamentals of Modern Anesthesia Machines, American Society of Anesthesiologists, New Orleans, Louisiana [invited lecture]

10/2009 Web-enabled, transparent reality simulation improves anesthesia machine pre-use fault detection, American Society of Anesthesiologists, New Orleans, Louisiana [poster]

01/2009 The Augmented Anesthesia Machine: A Mixed Simulator, Simulation in Healthcare, Lake Buena Vista, Florida [poster]

01/2009 Transparent reality simulation of skin prepping and A healthcare cost simulator of anesthesia in the operating room, Simulation in Healthcare, Lake Buena Vista, Florida [posters]
Transparent reality simulation enhances learning of anesthesia machine function and dynamics. Research Day. University of Florida College of Medicine, Gainesville, Florida

10/2008 Heliox as Carrier Gas for Isoflurane Wash-Out, American Society of Anesthesiologists, Orlando, Florida [poster]

10/2008 The augmented anesthesia machine, American Society of Anesthesiologists, Orlando, Florida [scientific exhibit]

10/2008 Advanced Workshop on the Aestiva and Apollo Anesthesia Machines (sessions I and II), American Society of Anesthesiologists, Orlando, Florida [invited lecture]

07/2008 Intermittent cold and dry air underneath football shoulder pads assists in temperature homeostasis, American Orthopaedic Society for Sports Medicine, Calgary, Canada [poster]

06/2008 Virtual simulation, Society for Education in Anesthesia, Miami, Florida [invited lecture]

01/2008 A panoramic display-based simulation with interactive, dynamic background, Simulation in Healthcare, San Diego, California [poster]

10/2007 Anesthesia machines of 2007: How to make them work for you, American Society of Anesthesiologists, San Francisco, California [invited lecture]

10/2007 University of Florida Center for Simulation, Advanced Learning and Technology; The ASA Simulation Network: information for prospective centers (workshop panelist); **and** Transparent reality simulation enhances learning of anesthesia machine function and dynamics, American Society of Anesthesiologists, San Francisco, California [invited lectures]

10/2007 Interactive web simulation of propofol and fospropofol, a new propofol pro-drug **and** Transparent Reality Simulation Enhances Learning of Anesthesia Machine Function and Dynamics, American Society of Anesthesiologists, San Francisco, California [posters]

10/2007 Virtual Anesthesia Machine and APSF simulation of the anesthesia machine pre-use check at APSF booth, American Society of Anesthesiologists, San Francisco, California [scientific exhibit]

10/2007 The physicality-virtuality continuum in simulation and education in anesthesia **and** A tale of two simulators, Society for Education in Anesthesia, San Francisco, California [invited lectures]

05/2007 Facilitating Learning of Complex Systems via Transparent Reality Simulation, Association for Psychological Science, Washington, DC [poster]

10/2006 Preliminary evaluation of a transparent reality simulation of the anesthesia machine pre-use check, American Society of Anesthesiologists, Chicago, Illinois [poster]

10/2006 Virtual Anesthesia Machine and APSF simulation of the anesthesia machine pre-use check at APSF booth, American Society of Anesthesiologists, Chicago, Illinois [scientific exhibit]

06/2006 A novel, interactive, internet-based simulation of perioperative coagulation, Society for Medical Simulation, San-Diego, California [poster]

03/2006 Simulation at the University of Florida, American Society of Anesthesiologists, Gainesville, Florida [invited lecture]

10/2005 Evaluation and Comparison of the Hotline Fluid Warmer and the Belmont Instrument Buddy Fluid Warmer and Anesthesia Machine Pre-Use Check Survey – Preliminary Results **and** Anesthesia machine pre-use check survey - Preliminary results, American Society of Anesthesiologists, Atlanta, Georgia [posters]

10/2005 Virtual Anesthesia Machine, APSF anesthesia machine workbook and APSF simulation of the anesthesia machine pre-use check at APSF booth, American Society of Anesthesiologists, Atlanta, Georgia [scientific exhibit]

01/2005 The Virtual Anesthesia Machine, Society for Technology in Anesthesia, Miami, Florida [invited lecture]

10/2004 FDO_2 accuracy when supplying nasal cannulae from common gas outlets, American Society of Anesthesiologists meeting, Las Vegas, Nevada [poster]

10/2004 FDO2 Accuracy When Supplying Nasal Cannulae from Common Gas Outlets, American Society of Anesthesiologists meeting, Las Vegas, Nevada [poster]

10/2004 Virtual Anesthesia Machine and APSF anesthesia machine workbook at APSF booth, American Society of Anesthesiologists, Las Vegas, Nevada [scientific exhibit]

11/2003 Demo of CVVH machine simulation at Braun booth, American Society of Nephrology, San Diego, California [scientific exhibit]

10/2003 Veterinary Use of a Free Web-Based Interactive Anesthesia Machine Simulation, American College of Veterinary Anesthesiologists, Orlando, Florida [poster]

10/2003 The Virtual Anesthesia Machine: An Experiment in Sustainable Philanthropic Education over the Web, the American Society of Anesthesiologists, San Francisco, California [poster]

10/2003 The Virtual Anesthesia Machine: An experiment in sustainable philanthropic education over the Web, American Society of Anesthesiologists meeting, San Francisco, California [invited lecture]

10/2003 Virtual Anesthesia Machine and APSF anesthesia machine workbook at APSF booth, American Society of Anesthesiologists, San Francisco, California [scientific exhibit]

10/2002 APSF workbook for an anesthesia machine animation at the APSF booth; Virtual Fabius GS, v 3.0 (beta) simulation software for exhibit at Drager booth; and APSF anesthesia machine workbook at APSF booth, American Society of Anesthesiologists, Orlando, Florida [scientific exhibit]

10/2002 The virtual reality anesthesia machine, American Society of Anesthesia Technologists and Technicians, Orlando, Florida [invited lecture]

10/2002 Web-based interactive simulation of an anesthesia machine and Veterinary use of a free web-based, interactive anesthesia machine simulation, American College of Veterinary Anesthesiologists, Orlando, Florida [invited lectures]

10/2002 VAM technical exhibit, American College of Veterinary Anesthesiologists (ACVA), Orlando, Florida [scientific exhibit]

01/2002 Design and implementation of a Web-based simulation for a new anesthesia workstation, Society for Technology in Anesthesia, Santa Clara, California [invited lecture]

10/2001 A Model-Based Computer Simulation of Anesthesia Machine Gas Flows, American Society of Anesthesiologists, New Orleans, Louisiana [poster]

10/2001 Web-based educational animation of an anesthesia machine, American Society of Anesthesiologists, New Orleans, Louisiana [scientific exhibit]

10/2001 A model based computer simulation of anesthesia machine gas flows and Detecting and troubleshooting malfunctions in anesthesia delivery systems, American Society of Anesthesiologists, New Orleans, Louisiana [invited lectures]

06/2001 Innovations in Education and Technology, The virtual anesthesia machine, Society for Education in Anesthesia, Cleveland, Ohio [invited lecture]

01/2001 Preliminary experience with a Web-based educational simulation of an anesthesia machine; **and** A model-based computer simulation of gas flows inside the anesthesia machine, Society for Technology in Anesthesia, Scottsdale, Arizona [invited lectures]

01/2000 Interactive, Web-based simulation of an anesthesia machine, Society for Technology in Anesthesia, Orlando, Florida [poster]

10/1999 Facilitator: Hemodynamic monitoring poster session, American Society of Anesthesiologists, Dallas, Texas [poster]

01/1999 Synchronization of chest x-ray imaging with peak lung inflation, Society for Technology in Anesthesia, San Diego, California [poster]

01/1999 Virtual reality and METI simulator, Society for Technology in Anesthesia, San Diego, California [invited lecture]

01/1999 Synchronization of chest x-ray imaging with peak lung inflation; Integration of virtual reality with physical simulation; Performance of a plastic optical fiber imaging stylet for human tracheal intubation; **and** Virtual reality and METI simulator, workshop, Society for Technology in Anesthesia, San Diego, California [invited lectures]

10/1998 Autoregulation mediated by oxygen demand/supply in a brain model; A continuous respiratory rate monitor derived from the optoplethysmogram of a pulse oximeter: Clinical Evaluation; **and** A plastic optical fiber imaging stylet: mechanical design and preliminary experience, American Society of Anesthesiologists, Orlando, Florida [posters]

10/1998 Facilitator, Equipment monitoring and engineering technology—airway and miscellaneous **and** A continuous respiratory rate monitor derived from the optoplethysmogram of a pulse oximeter: clinical evaluation, American Society of Anesthesiologists, Orlando, Florida [invited lectures]

10/1998 A plastic optical fiber imaging stylet: mechanical design and preliminary experience, American Society of Anesthesiologists, Orlando, Florida [invited lecture]

10/1998 Simulator workshop (SjVO2 monitoring), Society for Neuroanesthesia and Critical Care, Orlando, Florida [invited lecture]

01/1998 A plastic fiber optic imaging stylet; An ICP model for the human patient simulator; Moderator for Scientific Posters and Discussion; ICP model integrated to an HPS running the ACLS megacode training, demonstration; **and** The ICP model as a stand-alone training device, demonstration, Society for Technology in Anesthesia [invited lectures]

01/1998 An ICP model for the human patient simulator **and** A plastic optical fiber imaging stylet: preliminary performance data on humans, Society for Technology in Anesthesia & The Rochester Simulation Symposium, Tucson, Arizona [posters]

10/1998 A plastic optical fiber imaging stylet: mechanical design and preliminary experience. Poster Presentation. Annual Meeting of the American Society of Anesthesiologists, Orlando, Florida

10/1998 Gravenstein D, Lampotang S, Melker RJ: Performance of a plastic optical fiber imaging stylet for human tracheal intubation. Poster Presentation. Annual Meeting of the American Society of Anesthesiologists, Orlando, Florida

10/1997 Fiber optic imaging stylet for intubation, American Society of Anesthesiologists, San Diego, California [scientific exhibit]

01/1997 A computer model of a linearized two-compartment lung and distribution of ventilation during mechanical ventilation, Society for Technology in Anesthesia, Fort Lauderdale, Florida [invited lecture]

10/1996 Non-invasive detection of dual expiratory time constants caused by unilateral lung disease; Ventilator performance without a bellows: an explanation; **and** Ohmeda 7800 ventilator performance with and without bellows, American Society of Anesthesiologists [poster]

10/1996 Ventilator performance without a bellows: an explanation, American Society of Anesthesiologists, New Orleans, Louisiana [invited lecture]

10/1995 Influence of compliance and resistance on the distribution of ventilation, American Society of Anesthesiologists, Atlanta, Georgia [scientific exhibit]

10/1995 Machine faults using the simulator, American Society of Anesthesiology Technicians and Technologists, Atlanta, Georgia [invited lecture]

10/1995 Blind intubation simplified by an intelligent light-actuated auditory feedback system **and** Neuromuscular blockade and Mapleson D/Bain breathing circuits, two new training devices, American Society of Anesthesiologists, San Francisco, California [scientific exhibits]

10/1994 Noninvasive hemoglobinometry, American Society of Anesthesiologists, San Francisco, California [poster]

01/1994 Experience the simulators, The Society for Technology in Anesthesia, Orlando, Florida [scientific exhibit]

10/1993 Physiologic model for an anesthesia simulator, American Society of Anesthesiologists [poster]

10/1992 Can simulation accelerate the learning of basic anesthesia skills by beginning anesthesia residents? And matching learning style of anesthesiology residents to learning environment improves learning, American Society of Anesthesiologists [posters]

10/1992 Monitoring instrument training devices for medical education, American Society of Anesthesiologists, New Orleans, Louisiana [scientific exhibit]

10/1990 Severity of expiratory valve incompetence (EVI) alters minimum inspired carbon dioxide (PMICO2) and capnogram, American Society of Anesthesiologists [poster]

10/1990 In-line, microwave fluid warmer with adaptive, non-invasive control, American Society of Anesthesiologists, Las Vegas, Nevada [scientific exhibit]

10/1989 Hybrid lung model for use in anesthesia research and education, American Society of Anesthesiologists, New Orleans, Louisiana [poster]

10/1989 Can simulation teach clinical skills? American Society of Anesthesiologists, New Orleans, Louisiana [scientific exhibit]

09/1989 A simulation exercise emphasizing inhalation anesthesia, FDA Anesthesia Simulator Curriculum Conference, Rockville, Maryland [scientific exhibit]

10/1988 Effects of changes in lung model compliance on anesthesia ventilator performance, American Society of Anesthesiologists, San Francisco, California [poster]

10/1988 Learning about the anesthesia machine through simulation, American Society of Anesthesiologists, San Francisco, California [scientific exhibit]

09/1988 Training in anesthesiology using simulation, Anesthesia Patient Safety Foundation/Food and Drug Administration, Chicago, Illinois [scientific exhibit]

06/1988 Ventilatory effect on stone fracture during extracorporeal shock wave lithotripsy, American Urological Association, Boston, Massachusetts [poster]

10/1987 Training in anesthesiology: critical events simulation, American Society of Anesthesiologists, Atlanta, Georgia [scientific exhibit]

10/1986 Resistance characteristics of expiratory pressure valves, American Society of Anesthesiologists [poster]

10/1984 Bain Circuit influences on capnography, American Society of Anesthesiologists [poster]

Regional:

04/2012 Mixed Reality Subclavian Central Venous Access Simulator, Southern Group on Educational Affairs, Lexington, Kentucky [scientific exhibit]

State:

11/07/20 Lecture: “UF Initiatives Addressing Health Disparity in Prostate Biopsy” Florida Prostate Cancer Advisory Council Annual Meeting

9/16/2020 Stringer T, Lampotang S: Reducing Prostate Biopsy False Negatives with Training and Innovation, Mount Sinai Prostate Cancer Center of Excellence at the Tisch Cancer Institute, Mt. Sinai Health System, Virtual lecture during COVID

04/2020 Hands-on workshop in US-guided venous access and blocks. IPSSW2020, St. Petersburg, FL. April 26-29, 2020

12/2019 Impact of False Negative TRUS Prostate Biopsies. Florida Prostate Cancer Advisory Council (PCAC) Meeting, University of Florida, College of Medicine, Department of Urology, Gainesville, Fl. 12/07/2019. Speaker

10/2019 Using modular principles to efficiently design and build new simulators for different healthcare procedures. ASA, Orlando, Florida. October 2019. Abstract/Poster

10/2019 Using modular principles to efficiently design and build new simulators for different healthcare procedures. ASA, Orlando, Florida. Abstract/Poster

10/2019 A Low Cost Task Trainer for Front-of-Neck Emergency Airway Access Training. ASA, Orlando, Florida. October 2019. Abstract/Poster/Group Discussion

08/2019 Using Modular Principles to Efficiently Design and Build new Simulators and Part Task Trainers for Different Healthcare Procedures. MHSRS, Orlando, Florida. August 2019. Abstract/Poster

08/2019 Competency-based Simulator Training in TRUS side-fire template Prostate Biopsy. MHSRS, Orlando, Florida. August 2019. Abstract/Poster

08/2019 Baseline proportions of false negatives in simulated 12-core template transrectal ultrasound prostate biopsy. MHSRS, Orlando, Florida. August 2019. Abstract/Poster

06/2019 Evaluating various syringing techniques for manual injection of fluid bolus through high flow resistance tubing. FSA, West Palm Beach, Florida. June 2019. Abstract/Poster

06/2019 Needle tip recoil following needle advance: A possible mechanism for false loss of resistance? FSA, West Palm Beach, Florida. June 2019. Abstract/Poster

06/2019 Using modular principles to efficiently design and build new simulators for different healthcare procedures. FSA, West Palm Beach, Florida. June 2019. Abstract/Poster

12/2018 Reducing Through Simulation False Negative Proportions during Templated TRUS Prostate Biopsies. Florida Prostate Cancer Advisory Council (PCAC), 12/08/2018, UF Urology COM, Gainesville, FL. Presentation/Lecture

08/2018 McGough E, Sappenfield J, Gravenstein N, Cooper LA, Lizdas DE, DeStephens AJ, Gifford A, Zeng D, Lampotang S. Ongoing assessment of a self-study, self-debriefing simulator for central venous access: Preliminary results. MHSRS Symposium, Medical Simulation-The Future of Simulation in the Continuum of Care, 08/21/18, Orlando, Florida, Abstract/Poster

06/2018 Epidural Loss of Resistance Techniques- When Millimeters Matter: A Simulator Study. FSA, West Palm Beach, Florida. June 2018. Abstract/Poster

06/2018 Cross-Sectional Literacy Trainer: Readiness for Ultrasound? FSA, West Palm Beach, Florida. June 2018 [Abstract/Poster]

06/2018 A Low Cost Task Trainer for Front-of-Neck Emergency Airway Access Training. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. FSA, West Palm Beach, Florida. June 2018 [Abstract/Poster]

06/2018 Ongoing assessment of a self-study, self-debriefing simulator for central venous access: Preliminary results. FSA, West Palm Beach, Florida. June 2018 Abstract/Poster

06/2018 Assessment of a self-study, self-debriefing mixed reality simulator for central venous access. Advances in Medical Education, UF Health Jacksonville, Florida. [Poster].

06/2018 Needle tip recoil following needle advance: A possible mechanism for false loss of resistance? Advances in Medical Education, UF Health Jacksonville, Florida. [Poster]

2017 Invited by Dr. Scott Lind to speak at Surgery Grand Rounds at UF Health Jacksonville (date TBD)

11/2015 Demo of DoD simulators (CVA, US Trainer, RA) to SimLearn in Orlando (Haru Okuda, Malcolm Klein)

07/2014 A Critical Incident Scenario with Virtual Humans to Assess Patient Safety Training Needs. Selected as one of the top three research abstracts for special platform oral presentation at the David A.

Paulus, MD Poster Symposium at the Florida Medical Association Annual Meeting, Orlando, Florida

03/2013 Demonstration of Mixed Simulator of Central Venous Access at University of Washington, Seattle, Washington

03/2013 Simulation in Healthcare and Patient Safety: Lecture to Retired Faculty of University of Florida at Harn Museum, Gainesville, Florida

03/2013 An iPad simulation of skin prepping, University of Florida College of Medicine Celebration of Research, Gainesville, Florida

03/2013 An interactive iPad simulation of torso ultrasonography, University of Florida College of Medicine Celebration of Research, Gainesville, Florida

03/2013 Mixed reality regional anesthesia simulator for learning psychomotor and cognitive skills related to thoracic epidurals and thoracic paravertebral nerve blocks, University of Florida College of Medicine Celebration of Research, Gainesville, Florida

03/2013 Monitoring Consciousness via Pulse Oximeter Motion Artifact, University of Florida College of Medicine Celebration of Research, Gainesville, Florida

03/2013 Using simulation-based assessment to evaluate cognitive aspects of learning deficiencies in an anesthesia teaching program, University of Florida College of Medicine Celebration of Research, Gainesville, Florida

06/2005 Anesthesia machine pre-use check, Florida Society of Anesthesiologists, Palm Beach, Florida [invited lecture]

06/2005 Anesthesia Machine Pre-use Check, Florida Society of Anesthesiologists, Palm Beach, Florida [scientific exhibit]

12/1997 Fiber optic imaging stylet for intubation, New York State Society of Anesthesiologists, New York, New York [scientific exhibit]

09/1994 The anesthesia simulator and The FDA pre-use checklist for the anesthesia machine (workshop), Florida Society of Anesthesia Technicians and Technologists, Gainesville, Florida [invited lecture]

09/1992 FDA recommended anesthesia apparatus checkout procedure, Florida Society of Anesthesiology Technologists and Technicians, Gainesville, Florida [invited lecture]

Local:

12/08/20 Poster presentation: **Lampotang S**, Stringer T, Lizdas DE. Visualized Prostate Biopsy (vPBx): An intuitive 3D user interface for reducing prostate biopsy false negatives. UF Health Cancer Center virtual symposium, University of Florida, Gainesville, FL.

12/08/20 Poster presentation: Zhang Z, Stringer T, Yu Y, Tasdelen-Teker G, Wakim J, Shenot P, Lee J, Perlis N, Moy L, Johnson WT, Bigos A, DeStephens A, Lizdas DE, **Lampotang S.** A Methodical, Pitch-Neutral Technique for Side-Fire, Systematic Prostate Biopsy. UF Health Cancer Center virtual symposium, University of Florida, Gainesville, FL.

12/08/20 Poster presentation: **Lampotang S**, Shenot P, Lee J, Moy L,Wakim J, Zhang Z, Yu Y, Lizdas DE, Perlis N, Stringer T. False Negative Proportions Increase with Template Deviation during Simulated, Systematic, Side-Fire Prostate Biopsy. UF Health Cancer Center virtual symposium. University of Florida, Gainesville, FL.

8/29/20 **Lampotang S** UF PanVent Open Source ventilator to Francophone African countries, webinar organized by UF Center for African Studies, Presented in French

02/2020 Poster Presentation: Simulation use in outreach setting: A novel approach to building sustainability. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. 02/25/2020

02/2020 Simulation-based assessment of pediatric healthcare providers: A generalizability study. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. 02/25/2020. Poster/Invited

02/2020 A rapid development platform for modular, mixed and augmented reality simulators. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. 02/25/2020. Poster/Invited

02/2020 Competency-based simulator training in side-fire systematic prostate biopsy. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. 02/25/2020. Poster/Invited

02/2020 False Negative proportions increase with template deviation during simulated, systematic, side-fire prostate biopsy. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. 02/25/2020. Poster/Invited

02/2020 A Methodical, Pitch-neutral technique for side-fire, systematic prostate biopsy. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. 02/25/2020. Poster/Invited

10/2019 Simulation in Resident Education, How to Train a Competent Anesthesiologists. UF CoM Department of Anesthesiology. 10/18/19. Presentation

04/2019 Mixed Reality Simulators for CSSALT, University of Florida, College of Medicine, Department of Surgery, 15th Annual Department of Surgery Research Day. April 2019. Presentation

03/2019 The Anesthesia Machine: Simulation-Based Learning. University of Florida, Department of Anesthesiology, CME Simulation Conference, Gainesville, Florida. March 2019. Lecture.

03/2019 Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Patient Safety and Quality Week. Gainesville, Florida. March 2019. [Poster]

03/2019 Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. University of Florida, College of Medicine Patient Safety and Quality Week. Gainesville, Florida. March 2019. [Poster]

03/2019 Multi-center data of accuracy of simulated TRUS side fire templated prostate biopsy. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. [Poster]

03/2019 Evaluating Various Syringing Techniques for Manual Injection of Fluid Bolus through High Flow Resistance Tubing. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. [Poster]

03/2019 A Low Cost Task Trainer for Front-of-Neck Emergency Airway Access Training. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. [Poster]

03/2019 Needle tip recoil following needle advance: A possible mechanism for false loss of resistance? University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. [Poster][Oral Presentation, Dr. Tony Cometa, 2nd Place.]

03/2019 Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. [Poster] Best Quality Improvement Poster

03/2019 Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. [Poster]

03/2019 Baseline accuracy of 12-sector sampling in simulated templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. [Poster]

02/2019 Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

02/2019 Non-inferiority assessment of a self-study, self-debriefing mixed reality simulator for central venous access. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

02/2019 A Low Cost Task Trainer for Front-of-Neck Emergency Airway Access Training. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

02/2019 Cross-Sectional Literacy Trainer: Readiness for Ultrasound? University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

02/2019 Needle tip recoil following needle advance: A possible mechanism for false loss of resistance? University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

02/2019 Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

02/2019 Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

02/2019 Baseline accuracy of 12-sector sampling in simulated templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

02/2019 Evaluating Various Syringing Techniques for Manual Injection of Fluid Bolus through High Flow Resistance Tubing. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019. [Poster]

01/2019 Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. University of Florida, Gator Health Care Forum Reitz Union Gainesville, Florida, 01/11/19, Oral Presentation [Poster] by Jonathan Wakim and Monica Bursian Ortiz, Invited.

01/2019 Non-inferiority assessment of a self-study, self-debriefing mixed reality simulator for central venous access. University of Florida, Gator Health Care Forum Reitz Union, 01/11/19, Gainesville [Poster], Tony DeStephens Presenting Invited.

10/2018 Invited to demo to Urology Resident Applicants by the UF Health Department of Urology, 25 resident applicants, 10/27/18

10/2018 Invited to demo to Urology Resident Applicants by the UF Health Department of Urology, 25 resident applicants, 10/20/18

09/2018 McGough E, Sappenfield J, Gravenstein N, Cooper LA, Lizdas DE, DeStephens A, Gifford A, Zeng D, Lampotang S. Non-inferiority assessment of a self-study, self-debriefing mixed reality simulator for central venous access. University of Florida, College of Medicine Department of Anesthesiology Mini ASA, 09/21/19, Gainesville Poster, Invited.

09/2018 Lampotang S, Lopez B, Bigos A, Lizdas DE, DeStephens AJ, Vasilopoulos T, Gravenstein N, Cometa MA. Needle tip recoil during loss of resistance assessment: A possible mechanism for false loss of resistance? University of Florida, College of Medicine Department of Anesthesiology Mini ASA, 09/21/19, Gainesville, Florida, Poster, Invited.

09/2018 Bursian-Ortiz M, Wakim J, O'Hara D, Lizdas DE, DeStephens A, Gravenstein N, Lampotang S. Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. University of Florida, College of Medicine Department of Anesthesiology Mini ASA, 09/21/18, Gainesville, Florida, Poster, Invited.

07/2018 Demo of ultrasonography, ultrasonography trainer and thoracic regional anesthesia trainer, workshop, Cade Museum, Gainesville, FL invited, 7/7/18

02/2016 Central Venous Access Mixed Reality Simulator, College of Medicine Celebration of Research, Gainesville, Florida

09/2015 Utilizing Simulation Scenarios Involving Interdisciplinary Teams for Improving Patient Safety in the Perioperative Setting, College of Medicine Celebration of Research, UF Campus, Gainesville, Florida

02/2014 CTSI Service Center in Translational Simulation in Healthcare, CTSI informational booth at the College of Medicine Celebration of Research, UF Campus, Gainesville, Florida

09/2014 CTSI Service Center in Translational Simulation in Healthcare, Poster exhibit as a new UF Clinical & Translational Science Institute core service; CTSI Town Hall meeting, CTRB Building, Gainesville Florida

03/2013 Simulation in Healthcare and Patient Safety: Lecture to Retired Faculty of University of Florida at Harn Museum, Gainesville, Florida

02/2013 Demo of mixed simulators to Dr. Colin McCartney, Visiting Professor from University of Toronto Sunnybrook, Gainesville, Florida

01/2013 An iPad simulation of skin prepping, Lecture at the University of Florida Biomedical Engineering Department Simulation workshop

01/2013 Simulation as Clinical and Translational Science, University of Florida Clinical and Translational Science Institute Seminar series, Gainesville, Florida

12/2012 A subset of mixed simulations: augmented physical simulations with virtual underlays, Interservice: Industry training, simulation and education Conference, Orlando, Florida [poster]

10/2012 Demo of simulators to CoM alumni, University of Florida College of Medicine Alumni reunion

05/2012 Ben Sosna, Medical science Liaison at Cadence Pharmaceuticals

05/2012 Using virtual humans for medical team training; Simulator-based study of the Drager Apollo Low Flow Wizard; An educational simulation of hypoplastic left heart syndrome; A mixed simulator for subclavian central venous access; A mixed simulator of ventriculostomy practice; Testing and validation of the University of Florida Ventriculostomy simulator; Profiled vessel model for simulating bladder cystometrogram; Prevalence of dependent loops in urine drainage systems in hospitalized patients; and Subclavian central venous access mixed reality simulator: preliminary experience, University of Florida, Gainesville, Florida [posters]

04/2012 Air-cooled football pads and urine drainage, Ocala Rotary Club, Ocala, Florida [invited lecture]

03/2012 Using virtual humans for medical team training; Subclavian central venous access mixed reality simulator: preliminary experience; Simulator-based study of the Drager Apollo Low Flow Wizard; An educational simulation of hypoplastic left heart syndrome; A mixed simulator for subclavian central venous access; A mixed simulator of ventriculostomy practice; Testing and validation of the University of Florida Ventriculostomy simulator; Profiled vessel model for simulating bladder cystometrogram; and Prevalence of dependent loops in urine drainage systems in hospitalized patients, University of Florida, Gainesville, Florida [posters]

02/2012 Randy Harmatz, Chief Quality Officer, UF & Shands Academic Health Care Center

02/2012 Anders Ericsson, Florida State University, Visiting Professor

11/2011 Throwing patient safety for a loop, University of Florida, Gainesville, Florida [invited lecture]

11/2011 Mixed Reality Subclavian Central Venous Access Simulator, Annual Multispecialty Robotic Microsurgery Symposium Robotic Assisted Microsurgical & Endoscopic Society – RAMSES, Lake Buena Vista, Florida [scientific exhibit]

05/2011 Fluid–filled dependent loops in chest drainage systems impede lung re-inflation in an in-vitro model; Using Simulation-Based Education to Pinpoint Curriculum Deficiencies in an Anesthesiology Teaching Program; and Urine drainage tubing configuration affects urinary system outflow pressure in an in vitro model, University of Florida, Gainesville, Florida [posters]

03/2011 Fluid–filled dependent loops in chest drainage systems impede lung re-inflation in an in-vitro model and Urine drainage tubing configuration affects urinary system outflow pressure in an in vitro model, University of Florida, Gainesville, Florida [posters]

03/2011 Simulation at the UF Academic Health Center, UF HSC Symposium for Teaching and Learning with Technology, University of Florida, Gainesville, Florida [scientific exhibit]

06/2010 Simulation - A fertile and growing research field for patient safety and promotion and tenure, Nanoscale Research Facility, University of Florida, Gainesville, Florida [invited lecture]

05/2010 The UF Patient Simulation Triangle: Merging Physical, Virtual and Human Simulations - A Personal Interactive Experience, Oak Hammock, Gainesville, Florida [invited lecture]

03/2010 UF HSC Symposium for Teaching and Learning with Technology, Development and Applications of UF Technology for Simulation in Healthcare in the Last Quarter Century, Communicore Building, University of Florida, Gainesville, Florida [invited lecture]

10/2009 An Accurate Monitor for Detection of Hypoventilation, American Society of Anesthesiologists (ASA), New Orleans, Louisiana [scientific exhibit]

09/2009 Research: What Has the University of Florida Done for You Today? at the invitation of Dr. Robert and Mrs. Rosita Williams, Vicar's Landing, Ponte Vedra Beach, Florida [invited lecture]

04/2009 Mixed Simulation Improves Understanding of Medical Equipment, University of Florida, Gainesville, Florida [poster]

03/2009 Hands-on demonstration of the augmented reality hypoplastic left heart syndrome baby, METI Human Patient Simulator Network (HPSN) Conference, Tampa, Florida [scientific exhibit]

02/2009 American Association of Nurse Anesthetists (AANA) Faculty Development Workshop, Renaissance Orlando Resort at SeaWorld, Orlando, Florida [invited lecture]

12/2008 Panoramic screen-based simulation with dynamic background, Winter Simulation Conference, Miami, Florida [poster]

10/2008 The Physicality-Virtuality Continuum of Anesthesia Simulation at UF, University of Florida, Gainesville, Florida [invited lecture]

04/2008 Screen-Based, Web-Enabled and Panoramic Simulations, University of Florida Health Science Center, Gainesville, Florida [invited lecture]

04/2008 Transparent reality simulation enhances learning of anesthesia machine function and dynamics, University of Florida College of Medicine, Gainesville, Florida [poster]

02/2008 Update on Simulation Technology & Education at the UF Health Science Center, University of Florida Health Science Center, Gainesville, Florida [invited lecture]

01/2008 Simulation Education at UF HSC and Avenues for Collaboration, University of Florida Dental School, Gainesville, Florida [invited lecture]

09/2007 Keeping cool under (heat) stress, Gainesville Rotary Club, Gainesville, Florida [invited lecture]

03/2007 Troubleshooting the anesthesia machine; The anesthesia machine pre-use check; Preventing surgical fires; and Using the web for anesthesia education - Here and now, University of Florida, Snowmass Village, Colorado [scientific exhibit]

11/2006 2006 Faculty Showcase & Symposium, University of Florida, Gainesville, Florida [invited lecture]

05/2006 Enhancing teamwork with technology; and Demonstration of HPS and VAM, National Extension Technology, Advanced Learning and Technology, Gainesville, Florida [invited lectures]

08/2005 Creating Virtual Labs, University of Florida Institute of Food and Agricultural Sciences (IFAS) College of Agricultural and Life Sciences (CALS), Gainesville, Florida [invited lecture]

03/2005 Temperature biophysics and football pads, National Football League Equipment Managers, Orlando, Florida [invited lecture]

11/2004 Transparent Reality Simulation as an e-Learning Tool, University of Florida Office of Academic Technology, Gainesville, Florida [invited lecture]

11/2004 The Virtual Anesthesia Machine, University of Florida International Center, Gainesville, Florida [invited lecture]

11/2003 The Virtual Anesthesia Machine, University of Miami/Jackson Memorial Hospital, Miami, Florida [invited lecture]

04/2003 The Virtual Anesthesia Machine: A Web Experiment in Educational Simulation and Philanthropy, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

04/2003 Poster Presentation, International Conference on College Teaching and Learning, Jacksonville, Florida [poster]

11/2002 Anesthesia machine in-service to anesthesia technicians using the Virtual Anesthesia Machine, Shands Hospital at the University of Florida, Gainesville, Florida [invited lecture]

11/2002 Virtual Anesthesia Machine, The University of Florida International Center, Gainesville, Florida [scientific exhibit]

07/2002 Engineering applications in the human patient simulator, McKnight Brain Institute, University of Florida, Gainesville, Florida [invited lecture]

04/2002 Web-based educational animation of an anesthesia machine, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

04/2002 The virtual anesthesia machine, University of Florida McKnight Brain Institute, Gainesville, Florida [invited lecture]

03/2002 The virtual anesthesia machine, University of Florida Health Science Center, Gainesville, Florida [scientific exhibit]

04/2000 Applications of technology to education of health care personnel, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

11/1998 Human Patient Simulator Sessions (workshop), University of Florida, Lake Buena Vista, Florida [invited lecture]

11/1998 Human Patient Simulator Sessions (workshop), University of Florida, Lake Buena Vista, Florida [invited lecture]

03/1996 Potential applications of signal processing in anesthesiology, University of Florida College of Engineering, Gainesville, Florida [invited lecture]

03/1996 A clinical lung classification system, Shands Hospital at the University of Florida, Gainesville, Florida [invited lecture]

09/1994 Airway heating and humidification, temperature monitoring, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

02/1994 The Gainesville Anesthesia Simulator, University of Central Florida, Orlando, Florida [invited lecture]

11/1993 Airway heating and humidification, temperature monitoring, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

10/1993 Airway heating and humidification, temperature monitoring, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

06/1993 Airway heating and humidification, temperature monitoring, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

06/1993 Airway heating and humidification, temperature monitoring, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

04/1993 Airway heating and humidification, temperature monitoring, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

03/1993 Airway heating and humidification, temperature monitoring, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

03/1993 Airway heating and humidification, temperature monitoring, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

10/1992 Airway heating and humidification, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

10/1992 Malfunctions of the anesthesia equipment, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

10/1992 Pre-use check, use, and operation of the anesthesia machine, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

01/1992 Malfunctions of the anesthesia equipment, University of Florida College of Medicine, Gainesville, Florida [invited lecture]

01/1992 Anesthesiology teaching conference **and** Pre-use check, use and operation of the anesthesia machine, University of Florida College of Medicine, Gainesville, Florida [invited lectures]

11/1991 Preventing risk and solving problems in anesthesia using hands-on simulation, University of Florida, Department of Anesthesiology, Anesthesia Patient Safety Foundation, Anesthesiology Alumni Association of Florida, Inc., and Ohmeda Anesthesia Systems, Gainesville, Florida [invited lecture]

Other:

02/2012 Troubleshooting hypoxic oxygen supply conditions, Feinberg School of Medicine, Northwestern Memorial Hospital, Chicago, Illinois [invited lecture]

09/2009 Hands-on station for the Augmented Apollo Workstation, Feinberg School of Medicine, Northwestern Memorial Hospital, Chicago, Illinois [invited lecture]

08/2009 Transparent and Augmented Reality Simulations in Anesthesia, NYU Medical Center, New York City, New York [invited lecture]

04/2009 Dinner lecture, Simulation in Anesthesia, DC Society of Anesthesiologists, Washington, DC [invited lecture]

12/2008 Demonstration of the mixed reality Augmented Apollo anesthesia workstation, Post Graduate Assembly in Anesthesiology, New York [scientific exhibit]

06/2008 Equipment simulation for education, grand rounds; Screen-based, web-enabled and panoramic simulations, clinical rounds; Teach the teacher - how to teach with the simulations on the VAM web site, lecture; and A Tour of the Virtual Anesthesia Machine Web Site, Brigham & Women's Hospital, Boston, Massachusetts [invited lectures]

04/2008 Tools for understanding the anesthesia machine, Hospital for Special Surgery, New York, New York [invited lecture]

11/2007 Keeping cool under (heat) stress, National Football League Headquarters, New York, New York [invited lecture]

09/2007 Anesthesia machine malfunction and Anesthesia machine pre-use check, Northwestern Memorial Hospital, Chicago, Illinois [invited lectures]

10/2006 Hazards of the Modern Anesthesia Workstation - Prevention, Diagnosis, and Treatment, American Society of Anesthesiologists, Chicago, Illinois [invited lecture]

10/2006 Only You Can Prevent...OR Fires, American Society of Anesthesiologists, Chicago, Illinois [invited lecture]

11/2005 Office of Device Evaluation Vendor Day, Food & Drug Administration, Rockville, Maryland [invited lecture]

11/2005 Pre-Use Machine Inspection Workshop, Northwestern University, Chicago, Illinois [invited lecture]

11/2005 Anesthesia machine function, Northwestern Memorial Hospital, Chicago, Illinois [invited lecture]

11/2004 Temperature biophysics and football, NFL Headquarters, New York, New York [invited lecture]

12/2002 The anesthesia machine unveiled and Simulation and web-based learning in medical education, grand rounds, University of California Davis Medical Center, Sacramento, California [invited lectures]

10/2000 Developing educational software for anesthesia: Web-based solution at the University of Florida, Computers in Anesthesia, Monterey, California [invited lecture]

12/1999 Automatic synchronization of x-ray beam exposure with peak lung inflation during chest radiography: focus group, State University of New York, Stony Brook, New York [invited lecture]

11/1999 Automatic synchronization of x-ray beam exposure with peak lung inflation during chest radiography, St. Raphael Hospital, New Haven, Connecticut [invited lecture]

11/1999 Respiratory rate estimation from the optoplethysmogram of a pulse oximeter, Novametrix Medical Systems, Incorporated, Wallingford, Connecticut [invited lecture]

10/1999 The fiberoptic imaging stylet: a new approach for intubation and management of the airway, Mallinckrodt, St. Louis, Missouri [invited lecture]

05/1999 A device to synchronize x-ray beam exposure with peak lung inflation, Novametrix Medical Systems, Inc, Yale University, New Haven, Connecticut [invited lecture]

08/1998 Failures in the anesthesia machine and their consequences, University of North Carolina, Chapel Hill, North Carolina [invited lecture]

08/1998 Simulated faults in the anesthesia machine using an anesthesia simulator (workshop) , University of North Carolina, Chapel Hill, North Carolina [invited lecture]

06/1996	Simulator-based usability study of a pre-production anesthesia record keeper **and** Simulator applications at the University of Florida, University of Rochester School of Medicine and Dentistry, Rochester, New York [posters]
06/1995	Brief overview of the GRADS system **and** Update on the GRADS investigation, Ohmeda, Madison, Wisconsin [invited lectures]
03/1994	A device to simulate thumb twitch response to ulnar nerve stimulation in anesthetized patients, Ohio State University, Vail, Colorado [invited lecture]
07/1992	A review of anesthesia delivery system modifications and designs, University of Utah, Salt Lake City, Utah [invited lecture]
05/1992	Anesthesia delivery systems: past, present (and future?), Massachusetts General Hospital, Boston, Massachusetts [invited lecture]

Professional Leadership Roles Related to Teaching:

07/2013	Reviewer for promotion of Juan Cendan, MD, University of Central Florida to Professor
06/2012	Hands-on training of graduating residents on Dräger piston ventilator anesthesia machines, University of Florida College of Medicine, Gainesville, Florida
05/2011	Hands-on training on Dräger piston ventilator anesthesia machines for graduating residents, University of Florida College of Medicine, Gainesville, Florida
1994-1997	Cooperative Education Career Services, Supervisor for Student Coop Work Term, University of Waterloo, Ontario, Canada
1994-1995	Faculty Supervisor for Engineering Graduate Students, University of Technology, Eindhoven, The Netherlands
1994	Curriculum Development Team Member for "Health Sciences Patient Simulator Curriculum Scenarios," State of Florida Department of Education

PART IV: BIBLIOGRAPHY

Books, Contributor of a Chapter

Lampotang S. "The Anesthesia Machine". In Chu LF, Traynor AJ, Kurup V (Eds), Manual of Clinical Anesthesiology 2nd edition; Wolters Kluwer ISBN: 9781496328496 Publication Date: 10/19/2020

Lampotang S, "A translational roadmap to create the future of simulation in healthcare" in Mahoney B, Minehart R, Pian-Smith M (eds): *Comprehensive Healthcare Simulation: Anesthesiol*ogy, IBSN9783030268497; Springer, Jan 2020 pp. 325-336. DOI: 10.1007/978-3-030-26849-7_28

Lampotang S. A Memoir - Early Days of Simulation. In Palaganas JC, Maxworthy JC, Epps CA, Mancini ME (Eds), Defining Excellence in Simulation Programs. Wolters Kluwer, 2015, p 175, ISBN 978-1-4511-8879-0.

Slone F, **Lampotang S.** Mannequin Patient Simulators chapter. In Palaganas JC, Maxworthy J, Epps C, Mancini B (Eds.), Defining Excellence in Simulation Programs. Wolters Kluwer, 2014.

Pritts C, **Lampotang S.** The anesthesia machine. In Chu LF, Fuller AJ (Eds), Manual of Clinical Anesthesiology. Philadelphia, Lippincott, Williams and Wilkins, 2012, pp 105-112.

Lampotang S. Medium and high-integration mannequin patient simulators. In Riley R (Ed), Manual of Simulation in Healthcare. Oxford University Press, 2008.

Liem EB, **Lampotang S.** Anesthesia machine malfunctions. In Lobato EB, Gravenstein N, Kirby RR (Eds), Complications in Anesthesiology, 3rd ed. Philadelphia, Lippincott Williams & Wilkins, 2008, pp 800-818.

Lampotang S, Good ML. The anesthesia machine, anesthesia ventilator, breathing circuit and scavenging system. In Kirby RR, Gravenstein N, Gravenstein JS, Lobato EB, Gravenstein JS (Eds), Clinical Anesthesia Practice, ed 2. Philadelphia, WB Saunders, 2002, pp 277-302.

Banner MJ, **Lampotang S.** Expiratory pressure valves. In Branson RD, Hess DR, Chatburn RL (Eds), Respiratory Care Equipment, ed 2. Philadelphia, Lippincott Williams & Wilkins, 1998, pp 647-656.

Banner MJ, **Lampotang S**, Blanch PB, Kirby RR. Mechanical ventilation. In Civetta JM, Taylor RW, Kirby RR (Eds), Critical Care, ed 3. Philadelphia, Lippincott-Raven, 1997, pp 711-744.

Banner MJ, **Lampotang S.** Expiratory pressure valves. In Branson RD, Hess DR, Chatburn RL (Eds), Respiratory Care Equipment. Philadelphia, JB Lippincott, 1995, pp 479-488.

Gravenstein JS, Good ML, **Lampotang S**, Carovano RG. The Gainesville Anesthesia Simulator. In Menzel H (Ed), Konzepte zur Risikominderung in der Anasthesiologie. Munchen, W. Zuckschwerdt Verlag, 1993, pp 107-117.

Banner MJ, **Lampotang S**, Blanch PB, Kirby RR. Mechanical ventilation. In Civetta JM, Taylor RW, Kirby RR (Eds), Critical Care, ed 2. Philadelphia, JB Lippincott, 1992, pp 1391-1418.

Banner MJ, **Lampotang S.** Mechanical ventilators. In Perel A, Stock MC (Eds), Handbook of Mechanical Ventilatory Support. Baltimore, Williams & Wilkins, 1991, pp 7-30.

Lampotang S. Microprocessor and control systems in mechanical ventilators. In Banner MJ (Ed): Positive Pressure Ventilation. Problems in Critical Care, vol. 4, No. 2. Philadelphia, JB Lippincott, 1990, pp 232-253.

Gravenstein N, **Lampotang S**. Ventilation during anesthesia. In Kirby RR, Downs JB, Banner MJ (Eds), Clinical Applications of Ventilatory Support. New York, Churchill Livingstone, 1990, pp 277-300.

Lampotang S. Microprocessor-controlled ventilation systems and concepts. In Kirby RR, Banner MJ, Downs JB (Eds), Clinical Applications of Ventilatory Support. New York, Churchill Livingstone, 1990, pp 105-120.

Banner MJ, **Lampotang S**. Clinical use of inspiratory and expiratory waveforms. In Kacmarek RM, Stoller JK (Eds), Current Respiratory Care Techniques and Therapy. New York, B.C. Decker, 1988, pp 137-142.

Monographs

Lampotang S. Design methodology, fabrication and evaluation of a blower recirculated, closed ventilation system as a platform for anesthesia delivery. University of Florida Doctoral Dissertation, 1992, p 406.

Lampotang S. Inhalation and exhalation pressure flow characteristics affecting external resistive work of spontaneous breathing on positive pressure ventilation systems. University of Florida Master's Thesis, 1984, p 151.

Refereed Publications

08/03/21 - **Brewer JL, Lampotang S, Algarra NNN,** Taşdelen Teker G. Playing with your phone in class: using smartphones to engage nonparticipants in simulation sessions. Am J Med Qual. 2021 Jul 21. doi: 10.1097/01.JMQ.0000743380.79942.41. Online ahead of print. PMID: 34310375

07/21/21 - **Lampotang S**, Gravenstein N, Feldman J, Destephens A, Lizdad D Zarour I, Johnson W, Acar Y. 2021. Manual conservation of supplemental oxygen in low-resource settings during the COVID-19 pandemic. *Simulation in Healthcare*.SIH-D-21-00182R1Manuscript accepted 7-20-21

03/09/21: Cometa MA, Lopez BM, Vasilopoulos T, DeStephens AJ, Bigos A, Lizdas DE, **Gravenstein N**, Lampotang S. 2020. Does the Technique for Assessing Loss of Resistance Alter the Magnitude of Epidural Needle Tip Overshoot? *Simulation in Healthcare*. 2020 Jun;15(3):154-159. doi: 10.1097/SIH.0000000000000419. PMID: 32168291

02/16/21: Nader M, Tasdelen-Teker G, DeStephens AJ, **Lampotang S**, Prelipcean I, Smith RD, Bortcosh WH, Chriboga Salazar NR, Martinez Schlurmann NI, Hamdan US, Munoz Pareja JM. Simulation Use in Outreach Setting: a novel approach to building sustainability. *Simulation in Healthcare*. 2021 Feb 16. doi: 10.1097//SIH.0000000000000555. Online ahead of print. PMID: 33600139

01/19/21: Brewer JL, **Lampotang S**, Tasdein Teker G, Alagarra NN: Playing with your phone in class: using smartphones to engage non-participants in simulation sessions. Manuscript MED-2021-0110 submitted to *Medical Education*

01/05/21: **Lampotang S**, Stringer T, Lizdas DE: Visualized Prostate Biopsy: An Intuitive Three-Dimensional User Interface for Systematic and Targeted Biopsy. Manuscript END-2020-1013-NTE submitted online for publication in the *Journal of Endourology*. 2021 Jan 6. doi: 10.1089/end.2020.1013. Online ahead of print. PMID: 33403896

01/02/21: Fahy BG, Cibula JE, Cooper L, **Lampotang S**, Gravenstein N, Vasilopoulos T. The RITE of Passage: learning styles and residency in-service training examination (RITE) scores. January 3, 2021. *Cureus*. 13(1): e12442. Doi:10.7759/cureus.12442

12/25/20: Submission of Mixed Reality Training Decreases False Negatives During Simulated Freehand Systematic Prostate Biopsy to *Simulation in Healthcare.*

12/21/20: Submission of Revision 2 of Zhang Z, Stringer T, Yu Y, Wakim J, Mei V, Shenot P, Lee J, Perlis N, Ahmad AE, Moy L, Johnson WT, DeStephens A, Bigos AK, Lizdas DE, **Lampotang S**: Attitude is Everything: keep probe pitch neutral during side-fire prostate biopsy. A simulator study. *British Journal of Urology International (BJUI)*

12/12/20: Review of Simulation in Healthcare manuscript SIH-D-20-00415. “Use of simulation to visualize healthcare worker exposure to aerosol in the operating room.”

11/21/20: Submission of Revision 1 of Zhang Z, Stringer T, Yu Y, Wakim J, Mei V, Shenot P, Lee J, Perlis N, Ahmad AE, Moy L, Johnson WT, DeStephens A, Bigos AK, Lizdas DE, Lampotang S: A Methodical, Pitch-Neutral Technique for Freehand, Side-Fire, Transrectal Ultrasound-Guided Systematic Prostate Biopsy, submitted to *British Journal of Urology International (BJUI)*.

11/19/20: Brewer JL, **Lampotang S**, Tasdein Teker G, Alagarra NN: Playing with your phone in class: using smartphones to engage non-participants in simulation sessions. Manuscript AJMQ-20-360 submitted to the *American Journal of Medical Quality*

11/9/20: Brewer JL, **Lampotang S**, Tasdein Teker G, Alagarra NN: Playing with your phone in class: using smartphones to engage non-participants in simulation sessions. Manuscript JLI-S20-00284 submitted to the journal *Learning and Instruction*

10/7/20: Teker GT, Nader M, DeStephens A, **Lampotang S**, Pareja Munoz J. Simulation-based assessment of pediatric healthcare providers: A generalizability study. – Manuscript EHP-20-0245 submitted to the *Journal Evaluation & Health Professions*.

9/11/20: Corresponding Author: Fahy BG, Cibula JE, Cooper L, **Lampotang S**, Gravenstein N, Vasilopoulos T. The RITE of Passage: learning styles and residency in-service training examination scores, PhD, Journal: Trends in Neuroscience and Education

9/9/2020: Lampotang S, Lizdas DE, Johnson WT, Mei V, Wakim J, DeStephens A, Moy L, Ahmad A, Stringer T: Mixed Reality Simulator Training Reduces Deviation During Systematic Prostate Biopsy. Manuscript submitted to BMJ *Simulation and Technology-Enhanced Learning* on 9/11/2020

08/24/20 Nader M, Tasdelen-Teker G, DeStephens A, Lampotang S, Prelipcean I, Smith R, Bortcosh B, Chiriboga Salazar N, Martinez Schlurmann N, Hamdan U, Pareja Munoz J. Simulation Use in Outreach Setting: A Novel Approach to Building Sustainability, *Simulation in Healthcare* 2021 Feb 16. doi: 10.1097/SIH.0000000000000555. Online ahead of print. PMID: 33600139

7/17/20: Fahy BG, Cibula JE, Johnson WT, Cooper LA, Lizdas DE, Gravenstein N, **Lampotang S**: An online, interactive, screen-based simulator for learning basic EEG interpretation. Manuscript NEUS-D-20-00442R2 accepted for publication, *Neurological Sciences* https://urldefense.proofpoint.com/v2/url?u=https-3A__rdcu.be_b5MI1&d=DwMFaQ&c=sJ6xIWYx-zLMB3EPkvcnVg&r=a_HvFeeRsmVDDEz8XtLRyT8S1Sbcey_kOquwqH9HdOI&m=yMnZO38rJfOxAVwi8ZkaDyTiomF7iwNzLirxTC217JU&s=AzBJ5ZFDemOPo3ZbJB1Ao4f3ifyz6LfwIbJldnJYUFo&ein

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Lampotang S, Bigos A, Avari K, Johnson WT, Mei V, Lizdas DE. 2020. SMMARTS: An open architecture development platform for modular, mixed and augmented reality procedural and interventional simulators. *Simulation in Healthcare*, SIH-D-19-00374. 2020 Sep 10 doi: 10.1097/SIH.0000000000000503 Online ahead of print. PMID: 32925586

Cometa MA, Lopez BM, Vasilopoulos T, DeStephens AJ, Bigos A, Lizdas DE, Gravenstein N, **Lampotang S**. Does the Technique for Assessing Loss of Resistance Alter the Magnitude of Epidural Needle Tip Overshoot? Simulation in Healthcare. 2020; 15(3): 154-159. Doi: 10.1097/SIH.0000000000000419, SIH-D-19-00080R2

Lampotang S, Gravenstein N, Lizdas D, Cooper LA, Johnson WT, Fahy B. An online interactive, screen-based simulator for learning basic EEG interpretation. *Neurological Sciences.* NEU-D-20-00442R1. Doi: 10.1007/s10072-020-04610-3. Online ahead of print. PMID: 32700228

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Electronic Publications/Simulations:

Completed mixed reality simulation of regional anesthesia – 2013.

ChloraPrep Simulation for the iPad; released to CareFusion on 6/2012.

Completed mixed reality simulation of Central Venous Access – 2012.

Completed the Augmented Drager Primus simulation, a mixed reality simulation of the Drager Primus anesthesia workstation, 11/2008.

Completed the Augmented Drager Apollo simulation, a mixed reality simulation of the Drager Apollo anesthesia workstation, 10/2008.

Completed video of routine rocuronium reversal with sugammadex for global launch of the UF Simulated Anesthesia Application – delivered 9/22/08.

Preliminary version of ChloraPrep simulation completed on 8/11/2008 with exhibit at Enturia National sales meeting on 8/12/2008.

Completed localization of SAA Phase IIB for United Kingdom market for use at AAGBI (Association of Anaesthetists of Great Britain and Ireland) meeting - 8/2008.

Simulated Anesthesia Application Phase IIA delivered to Organon USA, 1/10/08.

Simulated Anesthesia Application Phase IIB delivered to Schering Plough, 7/7/08.

Simulated Anesthesia Application Phase I delivered to Organon on 6/29/2007.

Abstracts

Lampotang S, Stringer T, Lizdas DE. Visualized Prostate Biopsy (vPBx): An intuitive 3D user interface for reducing prostate biopsy false negatives. Abstract submitted to UF Health Cancer Center virtual symposium. Oct. 12, 2020

Zhang Z, Stringer T, Yu Y, Tasdelen-Teker G, Wakim J, Shenot P, Lee J, Perlis N, Moy L, Johnson WT, Bigos A, DeStephens A, Lizdas DE, **Lampotang S**, A Methodical, Pitch-Neutral Technique for Side-Fire, Systematic Prostate Biopsy. Abstract submitted to UF Health Cancer Center virtual symposium. Oct. 12, 2020.

Lampotang S, Shenot P, Lee J, Moy L,Wakim J, Zhang Z, Yu Y, Lizdas DE, Perlis N, Stringer T. False Negative Proportions Increase with Template Deviation during Simulated, Systematic, Side-Fire Prostate Biopsy. Abstract submitted to UF Health Cancer Center virtual symposium. Oct. 12, 2020

Gibby G, Lizdas D, DeStephens A, Johnson W, Niemi S, Zarour I, Kiley S, Nichols J, Tighe P, **Lampotang S**. Design, Build, And Evaluation Of A Low-cost Pandemic Ventilator With Non-ventilator Supply Chain Parts. Sunday Oct 4, 2020 10:00 AM - 11:00 AM. (Oral Presentation)

Gibby G, DeStephens A, Nystrom S, Johnson W, Lizdas D, Zarour I, **Lampotang S**. Iterative Learning Control Of Peep With An On/off Exhalation Valve In An Emergency Use Ventilator. Sunday Oct 4, 2020 12:00 PM - 1:00 PM. (Oral Presentation)

Smith C, DeStephens A, Lizdas D, Johnson W, **Lampotang S**. Design and Development of a Mixed Reality Simulator For Regional Anesthetic Blocks Of The Head And Neck. Monday Oct 5, 2020 10:00 AM - 11:00 AM. (Oral Presentation)

Nader M, Tasdelen-Teker G, DeStephens A, **Lampotang S**, Prelipcean I, Smith R, Bortcosh B, Chiriboga Salazar N, Martinez Schlurmann N, Hamdan U, Pareja Munoz J. Simulation Use in Outreach Setting: A Novel Approach To Building Sustainability. Sunday Oct 4, 2020 4:00 PM - 5:00 PM. (Oral Presentation)

Teker GT, Nader M, DeStephens A, **Lampotang S**, Pareja Munoz J. Simulation-based Assessment of Pediatric Providers: A Generalizability Study. Sunday Oct 4, 2020 4:00 PM - 5:00 PM. (Oral Presentation)

Gibby G, Lizdas D, **Lampotang S**, Niemi S, Zarour I, DeStephens A, Farhan A, Purdum J. Innovative Electronic Non-Linear Expiratory Valve Control in Emergency Ventilator. (Poster Presentation) Accepted: Jul 30, 2020

Lizdas D, Nerella S, Johnson WT, Rashidi P, **Lampotang S**. Early Research in Total Health Exposure – Using Neural Networks to Predict Deviation during Simulated Guided Interventions: preliminary data from a prostate biopsy simulator study. 2020 Military Health System Research Symposium (MHSRS) Poster presentation. Accepted June 5, 2020 (Poster Presentation)

Lampotang S. Simulation Use in The Outreach Setting: A Novel Approach to Building Sustainability. Florida Society of Anesthesiologists Program Committee 2020 Abstract of Distinction. April 2020. Note: due to COVID-19 the FSA 2020 Annual Meeting in Palm Beach was cancelled.

Lampotang S, Shenot P, Lee J, Moy L, Wakim J, Zhou Z, Yu Y, Lizdas D, Johnson W, Perlis N, Stringer T. False Negative Proportions Increase with Template Deviation during Simulated, Systematic, Side-Fire Prostate Biopsy. UF Health Cancer Center Research Day, University of Florida, Gainesville, Florida. March 2020. Abstract

Teker GT, DeStephens A, **Lampotang S**, Nader M, Pareja Munoz J. Simulation use in outreach setting: A novel approach to building sustainability. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. January 2020. Abstract

Teker GT, Nader M, DeStephens A, **Lampotang S**, Pareja Munoz J. Simulation-based assessment of pediatric healthcare providers: A generalizability study. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. January 2020. Abstract

Johnson WT, Bigos A, Lizdas DE, **Lampotang S.** A rapid development platform for modular, mixed and augmented reality simulators. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. January 2020. Abstract

Lampotang S, Wakim J, Zhang Z, Johnson WT, Lizdas DE, Gunnett A, Moy L, Shenot P, Stringer T. Competency-based simulator training in side-fire systematic prostate biopsy. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. January 2020. Abstract

Lampotang S, Shenot P, Lee J, Moy L, Wakim J, Zhange Z, Yu Y, Lizdas DE, Perlis N, Stringer T. False Negative proportions increase with template deviation during simulated, systematic, side-fire prostate biopsy. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. January 2020. Abstract

Zhang Z, Stringer T, Yu Y, Teker GT, Wakim J, Shenot P, Lee J, Perlis N, Moy L, Johnson WT, Bigos A, DeStephens A, Lizdas DE, **Lampotang S.** A Methodical, Pitch-neutral technique for side-fire, systematic prostate biopsy. University of Florida 2020 College of Medicine Research poster session, Gainesville, Florida. January 2020. Abstract

Lampotang S, Shenot P, Lee J, Moy L, Wakim J, Zhang Z, Yu Y, Lizdas D, Perlis N, Stringer T. False Negative Proportions Increase with Mean Spatial Deviation from a 12-Core Double Sextant Template during Simulated, Systematic, Side-Fire, TRUS Prostate Biopsy. IMSH, San Diego, CA. January 2020. Abstract

Lampotang S, Wakim J, Zhang Z, Johnson WJ, Lizdas DE, Moy L, Stringer T, Shenot P, Lee J: Multi-Center Competency-Based Training with a TRUS Prostate Biopsy Simulator. Accepted for presentation at the Simulation Summit, Winnipeg, Canada, November 7-8, 2019

Zhang Z, **Lampotang S**, Nguyen P, Zhang VR. Cuff ridge formation enables precise placement of Endotracheal Tube in reference to vocal cords-A Simulation Study. ASA, Orlando, Florida. October 2019. Abstract

Smith C, DeStephens A, Berkow L, **Lampotang S,** Gravenstein N, Urdaneta F. A Low Cost Task Trainer for Front-of Neck Emergency Airway Access Training. ASA, Orlando, Florida. October 2019. Abstract/Group Discussion

Williamson N, Bursian-Ortiz M, DeStephens A, Gravenstein N, **Lampotang S**. Evaluating various syringing techniques for manual injection of Fluid Bolus through high flow resistance tubing. ASA, Orlando, Florida. October 2019. Abstract/Poster

Johnson WT, Bigos A, Lizdas DE, **Lampotang S**. Using modular principles to efficiently design and build new simulators for different healthcare procedures. ASA, Orlando, Florida. October 2019. Abstract/Poster

Johnson WT, Bigos A, Lizdas DE, **Lampotang S**. Using modular principles to efficiently design and build new simulators for different healthcare procedures. MHSRS Symposium, Orlando, Florida. August 2019.(Poster/Abstract)

Lampotang S, Wakim J, Zhang Z, Johnson WT, Lizdas DE, Gunnett A, Moy L, Shenot P, Stringer T. Competency-Based Simulator Training in TRUS Side-Fire Templated Prostate Biopsy. MHSRS Symposium, Orlando, Florida. August 2019. (Poster/Abstract)

Lampotang S, Otto B, Lizdas D, Moy L, Wu S, Wakim J, Zhang Z, Johnson WT, Stringer T. Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. MHSRS Symposium, Orlando, Florida. August 2019. (Poster/Abstract)

DeStephens A, McGough M, Gravenstein N, Rabia F. Inexpensively Modernizing Doppler Technology for Venous Gas Embolism Detection. FSA, West Palm Beach, Florida. June 2019. Abstract/Poster of Distinction Presentation

Williamson N, Bursian-Ortiz M, DeStephens A, Gravenstein N, **Lampotang S**. Evaluating various syringing techniques for manual injection of Fluid Bolus through high flow resistance tubing. FSA, West Palm Beach, Florida. June 2019. Abstract/Poster

Lampotang S, Lopez B, Bigos A, Lizdas DE, DeStephens AJ, Vasilopoulos T, Gravenstein N, Cometa MA. Needle tip recoil following needle advance: A possible mechanism for false loss of resistance? FSA, West Palm Beach, Florida. June 2019. Abstract/Poster

Johnson WT, Bigos A, Lizdas DE, **Lampotang S**. Using modular principles to efficiently design and build new simulators for different healthcare procedures. FSA, West Palm Beach, Florida. June 2019. Abstract/Poster

Lampotang S, Wakim J, Zhang Z, Johnson WT, Lizdas DE, Gunnett A, Moy L, Shenot P, Stringer T. Competency-Based Simulator Training in TRUS Side-Fire Templated Prostate Biopsy. American Urological Association (AUA) Conference, May 3-6, 2019 Chicago, IL. Abstract (Not accepted)

Lampotang S, Stringer T, Moy L, Lizdas D, Yu W, Cooper LA, Wakim J, Zhang Z, Johnson WT, Otto B. Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. AUA, Brandon Otto presenting. American Urological Association (AUA) Conference. Chicago, IL. May 2019.

Lampotang S, Otto B, Lizdas D, Moy L, Wu S, Wakim J, Zhang Z, Johnson WT, Stringer T. Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Patient Safety and Quality Week. Gainesville, Florida. March 2019.

Lampotang S, Stringer T, Moy L, Lizdas D, Yu W, Cooper LA, Wakim J, Zhang Z, Johnson WT, Otto B. Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. University of Florida, College of Medicine Patient Safety and Quality Week. Gainesville, Florida. March 2019.

Lampotang S, Zhang Z, Wakim J, Johnson WT, Lizdas DE, Stringer T, Moy L, Shenot P. Multi-center data of accuracy of simulated TRUS side fire templated prostate biopsy. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019.

Williamson N, Bursian-Ortiz M, DeStephens A, Gravenstein N, **Lampotang S**. Evaluating Various Syringing Techniques for Manual Injection of Fluid Bolus through High Flow Resistance Tubing. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019.

Smith C, DeStephens A, Berkow L, Lampotang S, Gravenstein N, Urdaneta F. A Low Cost Task Trainer for Front-of-Neck Emergency Airway Access Training. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019.

Lampotang S, Lopez B, Bigos A, Lizdas DE, Destephens AJ, Vasilopoulos T, Gravenstein N, Cometa MA. Needle tip recoil following needle advance: A possible mechanism for false loss of resistance? University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. (Oral Presentation, 2nd Place).

Lampotang S, Otto B, Lizdas D, Moy L, Wu S, Wakim J, Zhang Z, Johnson WT, Stringer T. Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019. (Best Poster for Quality Improvement).

Lampotang S, Stringer T, Moy L, Lizdas D, Yu W, Cooper LA, Wakim J, Zhang Z, Johnson WT, Otto B. Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019.

Liming S, Dennis M, Wakim J, Zhang Z, Otto B, Stringer T, Johnson WT, **Lampotang S**. Baseline accuracy of 12-sector sampling in simulated templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Celebration of Research, Department of Anesthesiology. Gainesville, Florida. March 2019.

Bursian-Ortiz M, Wakim J, O'Hara D, Lizdas DE, DeStephens A, Gravenstein N, **Lampotang S**. Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

McGough E, Sappenfield J, Gravenstein N, Cooper LA, Lizdas DE, DeStephens A, Gifford A, Zeng D, **Lampotang S**. Non-inferiority assessment of a self-study, self-debriefing mixed reality simulator for central venous access. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

Smith C, DeStephens A, Berkow L, **Lampotang S**, Gravenstein N, Urdaneta F. A Low Cost Task Trainer for Front-of-Neck Emergency Airway Access Training. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

Lampotang S, Sezer TA, Lizdas DE, Sezer B, Cooper LA. Cross-Sectional Literacy Trainer: Readiness for Ultrasound? University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

Lampotang S, Lopez B, Bigos A, Lizdas DE, Destephens AJ, Vasilopoulos T, Gravenstein N, Cometa MA. Needle tip recoil following needle advance: A possible mechanism for false loss of resistance? University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

Lampotang S, Otto B, Lizdas D, Moy L, Wu S, Wakim J, Zhang Z, Johnson WT, Stringer T. Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

Lampotang S, Stringer T, Moy L, Lizdas D, Yu W, Cooper LA, Wakim J, Zhang Z, Johnson WT, Otto B. Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

Liming S, Dennis M, Wakim J, Zhang Z, Otto B, Stringer T, Johnson WT, **Lampotang S**. Baseline accuracy of 12-sector sampling in simulated templated transrectal ultrasound prostate biopsy. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

Williamson N, Bursian-Ortiz M, DeStephens A, Gravenstein N, **Lampotang S**. Evaluating Various Syringing Techniques for Manual Injection of Fluid Bolus through High Flow Resistance Tubing. University of Florida, College of Medicine Celebration of Research, Gainesville, Florida. February 2019.

Cooper LA, PhD; Bigos A, DeStephens A, MSME; Gravenstein N, MD; Johnson W, BS, Lizdas DE, BSME; McGough E, MD; Sappenfield J, MD; Zeng D, MS; **Lampotang S, PhD**. Self-study and self-debriefing in a mixed reality simulator is non-inferior to human instruction for learning central venous access. IMSH, San Antonio, TX. January 2019.

Lampotang S, Otto B, Lizdas D, Moy L, Wu S, Wakim J, Zhang Z, Johnson WT, Stringer T. Baseline proportions of false negatives in simulated 12-core templated transrectal ultrasound prostate biopsy. IMSH, San Antonio, TX. January 2019.

Lampotang S, Stringer T, Moy L, Lizdas D, Yu W, Cooper LA, Wakim J, Zhang Z, Johnson WT, Otto B. Baseline prevalence and magnitude of spatial deviations in a simulator from the transrectal ultrasound prostate biopsy template. IMSH, San Antonio, TX. January 2019.

Lampotang S, Zhang Z, Wakim J, Johnson WT, Lizdas DE, Stringer T, Moy L, Shenot P. Multi-center data of accuracy of simulated TRUS side fire templated prostate biopsy. IMSH, San Antonio, TX. January 2019.

Johnson W, Bigos A, Lizdas DE, **Lampotang S**. Using modular principles to efficiently design and build new simulators for different healthcare procedures. IMSH, San Antonio, TX. January 2019.

Lampotang S, Moy L, Lizdas DE, Su L, Otto B, Johnson W, Wu S, Wakim J, Zhang Z, Stringer T, Dennis M. Effect of real-time 3D visualization during simulation-based training on accuracy of templated, 12-core TRUS PBx: Preliminary data. IMSH, San Antonio, TX. January 2019.

Liming S, Dennis M, Wakim J, Zhang Z, Otto B, Stringer T, Johnson WT, **Lampotang S**. Baseline accuracy of 12-sector sampling in simulated templated transrectal ultrasound prostate biopsy. IMSH, San Antonio, TX. January 2019.

Bursian-Ortiz M, Wakim J, O'Hara D, Lizdas DE, DeStephens A, Gravenstein N, **Lampotang S**. Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. University of Florida, Gator Health Care Forum Reitz Union Gainesville, Florida, 01/11/19, Oral Presentation Poster by Jonathan Wakim and Monica Bursian Ortiz, Invited.

McGough E, Sappenfield J, Gravenstein N, Cooper LA, Lizdas DE, DeStephens A, Gifford A, Zeng D, **Lampotang S**. Non-inferiority assessment of a self-study, self-debriefing mixed reality simulator for central venous access. University of Florida, Gator Health Care Forum Reitz Union, 01/11/19, Gainesville Poster, Tony DeStephens Presenting Invited.

Lampotang S, McGough EK, Sappenfield JW, Cooper LA, Lizdas D, Destephens A, Gifford A, Zeng D. 2018 Non-inferiority Assessment of a Self-study, Self-debriefing Mixed Reality Simulator for Central Venus Access. American Society of Anesthesiologists the Anesthesiology Annual Meeting. Oct 13, 2018

Bursian Ortiz M, Wakim Johnathon, O'Hara D, Lizdas DE, Gravenstein N, **Lampotang S.** Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. Annual Florida Society of Anesthesiologists (FSA), Palm Beach, Florida. June 2018.

Smith CR, DeStephens AJ, Berkow L, **Lampotang S,** Gravenstein N, Urdaneta F. A low cost task trainer for front-of-neck emergency airway access training. Annual Florida Society of Anesthesiologists (FSA), Palm Beach, Florida. June 2018.

McGough E, Sappenfield J, Gravenstein N, Cooper LA, Lizdas DE, DeStephens AJ, Gifford A, Zeng D, **Lampotang S.** Ongoing assessment of a self-study, self-debriefing simulator for central venous access: Preliminary results. Annual Florida Society of Anesthesiologists (FSA), Palm Beach, Florida. June 2018.

Lampotang S, Sezer TA, Lizdas DE, Sezer B, Cooper LA. Cross-Sectional literacy trainer: Baseline assessment of medical students. Florida Society of Anesthesiologists (FSA), Palm Beach, Florida. June 2018.

Cometa MA, Vasilopouls T, DeStephens AJ, Bigos A, Lizdas DE, Gravenstein N, **Lampotang S,** Lopez B. Epidural Loss of Resistance Techniques- When Millimeters Matter: A Simulator Study. Florida Society of Anesthesiologists (FSA), Palm Beach, Florida. June 2018.

Lampotang S, Lopez B, Bigos A, Lizdas DE, DeStephens A, Vasilopoulos T, Gravenstein N, Cometa A. Needle tip recoil following needle advance: A possible mechanism for false loss resistance? University of Florida College of Medicine Jacksonville Advances in Medical Education Jacksonville, Florida. June 2018.

McGough E, Sappenfield J, Gravenstein N, Cooper LA, Lizdas DE, DeStephens A, Gifford A, Zeng D, **Lampotang S.** Assessment of a self-study, self-debriefing mixed reality simulator for central venous access. University of Florida College of Medicine Jacksonville Advances in Medical Education, Jacksonville, Florida. June 2018.

Cometa A, Vasilopoulos T, DeStephens AJ, Lizdas DE, Gravenstein N, **Lampotang S,** Lopez B. When millimeters count, epidural loss of resistance techniques differ: A simulator study. 50th Annual Society for Obstetric Anesthesia and Perinatology (SOAP), Miami Florida. May 2018.

Sezer B, Zalake M, Elçin M, Lok B, **Lampotang S**. Developing a Virtual Patient for Communication Skills Education: A Design-based Study. National Medical Education Congress, Ege University, Izmir, Turkey. May 9-12, 2018, Oral Presentation by Baris Sezer, PhD.

Lagrew J, Gonsalves D, DeStephens AJ, Gifford A, Wishin J, Gunnett AM, Koenig M, Vasilopouls T, Goldman J, Gravenstein N, **Lampotang S.** Effect of pulse oximetry with automated take a breath verbal prompts on hypoxemia alarms in the post anesthesia care unit. University of Florida College of Medicine UF Patient Safety and Quality Week, Gainesville, Florida. April 2018.

McGough E, Sappenfield J, Gravenstein N, Cooper LA, Lizdas DE, DeStephens AJ, Gifford A, Zeng D, **Lampotang S.** Ongoing assessment of a self-study, self-debriefing simulator for central venous access: Preliminary results. Annual University of Florida College of Medicine UF Patient Safety and Quality Week, Gainesville, Florida. April 2018.

Bursian Ortiz M, Wakim Johnathon, O'Hara D, Lizdas DE, Gravenstein N, **Lampotang S.** Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. UF Undergraduate Research Symposium, Gainesville, Florida. March 2018.

Cometa A, Vasilopoulos T, DeStephens AJ, Lizdas DE, Gravenstein N, **Lampotang S,** Lopez B. When millimeters count, epidural loss of resistance techniques differ: A simulator study. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. March 2018.

Lagrew J, Gonsalves D, DeStephens AJ, Koenig M, Vasilopoulos T, Goldman T, Gravenstein N, **Lampotang S.** Prevention of postoperative oxygen desaturation in the post-anesthesia care unit using pulse oximetry with automated verbal prompts. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. March 2018.

Lampotang S, McGough E, Sappenfield J, Gravenstein N, Cooper LA, Lizdas DE, DeStephens AJ, Gifford A, Zeng D. Ongoing assessment of a self-study, self-debriefing simulator for central venous access: preliminary results. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. March 2018.

Lampotang S, Sezer TA, Lizdas DE, Sezer B, Cooper LA. Cross-sectional literacy trainer: Baseline Assessment of Medical Students. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. March 2018.

Ortiz MB, Wakim J, O'Hara D, Lizdas DE, Gravenstein N, **Lampotang S.** Inadvertent hypoxic inspired gas mixtures during low flow anesthesia, including high fire risk cases. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. March 2018.

Cometa A, Vasilopoulos T, DeStephens AJ, Lizdas DE, Gravenstein N, **Lampotang S,** Lopez B. When millimeters count, epidural loss of resistance techniques differ: A simulator study. University of Florida College of Medicine Celebration of Research Day, Gainesville, Florida. February 2018.

Sezer B, Sezer TA, **Lampotang S.** Virtual Patients for Teaching Affective Skills in Healthcare Education. 5th International Conference on Innovation Challenges in Multidisciplinary Research Practices (ICMRP), Singapore, December 15-16, 2017. Oral Presentation by Baris Sezer, PhD

Sezer B, Sezer TA, **Lampotang S.** Creating a Web-Based 3D Virtual Patient Scenario for Communication Skills Practice. 5th International Conference on Innovation Challenges in Multidisciplinary Research Practices (ICMRP), Singapore, December 15-16, 2017. Oral Presentation presented by Baris Sezer, PhD

Lampotang S, Estores D, Gravenstein N, Gifford A, Nickerson P, Cooper LA. White JD. Differences in poropfol dose requirements in Asians, Blacks, and Caucasians during sedation for GI Endoscopy. American Society of Anesthesiologists, Boston MA. October 2017.

Sappenfield J, Cooper LA, Lizdas DE, Gravenstein N, Robinson A, **Lampotang S.** Visual augmentation improves supraclavicular access to the subclavian vein in a mixed reality simulator. American Society of Anesthesiologists, Boston MA. October 2017.

Lagrew J, Gonsalves D, DeStephens AJ, Gifford A, Wishin J, Gravenstein N, Goldman J, **Lampotang S.** Monitoring of Post-Operative Oxygen Desaturation in the Post Anesthesia Care Unit Using Pulse Oximetry with Automated Verbal Prompts . American Society of Anesthesiologists (ASA), Boston MA. October 2017.

Zimmerman M, Lizdas DE, Avari K, Ihnatsenka B, **Lampotang S.** Deployed clinician self-study and self-debriefing in Austere Environments: An integrated tutor for a mixed reality simulator of thoracic regional anesthesia. MHSRS Symposium, Orlando, Florida. August 2017.

Sezer B, Sezer TA, **Lampotang S**. How to flip a classroom in four simple steps. 2017 International Conference on Education, New York, New York July30-Aug 3, 2017. Oral presentation presented by Baris Sezer, PhD.

Lagrew J, Gonsalves D, DeStephens AJ, Gifford A, Wishin J, Gravenstein N, Goldman J, **Lampotang S.** Decreasing PACU oxygen desaturations using pulse oximetry with automated verbal prompts. Florida Society of Anesthesiologists (FSA), Palm Beach, Florida. June 2017.

Sappenfield J, Cooper LA, Lizdas DE, Gravenstein N, Robinson A, **Lampotang S.** Visual Augmentation Improves Supraclavicula Access to the Subclavian Vein in a Mixed Reality Simulator. University of Florida College of Medicine Jacksonville Advances in Medical Education Jacksonville, Florida. June 2017.

Lizdas DE, Avari K, Zimmerman M, **Lampotang S.** An editor to create integrated tutors for a modular set of mixed reality simulators. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. May 2017.

Lagrew J, Gonsalves D, DeStephens A, Gifford A, Wishin J, Gravenstein N, Goldman J, **Lampotang S,** Koenig M, Gunnett A. Decreasing the incidence of arterial oxygen desaturation alarms in the post-anesthesia care unit by using SpO2 threshold-based automated verbal prompts to patients. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. May 2017.

O'Hara D, Lizdas DE, Gravenstein N, **Lampotang S.** Air fresh gas flow below patient minute ventilation cause rebreathing and hypoxia. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. May 2017.

Sappenfield J, Smith WB, Cooper LA, Lizdas DE, Gonsalves D, Gravenstein N, Robinson AR, **Lampotang S.** Visualization improves supraclavicular access to the subclavian vein in a mixed reality simulator. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. May 2017.

Lampotang S, Estores D, Gravenstein N, Gifford A, Nickerson P, Cooper LA, White JD. Differences in propofol dose requirements in Asians, Blacks, and Caucasians during sedation for GI Endoscopy. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. May 2017.

Zimmerman M, Lizdas DE, Avari K, Ihnatsenka B, **Lampotang S.** Deployed clinician self-study and self-debriefing in Austere Environments: An integrated tutor for a mixed reality simulator of thoracic regional anesthesia. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. May 2017.

Lagrew J, Gonsalves D, DeStephens A, Gifford A, Wishin J, Gunnett AM, Gravenstein N, Goldman J, **Lampotang S.** Decreasing incidence of arterial oxygen desaturation alarms in the post anesthesia care unit by using SpO2 threshold-based, automated verbal prompts to patients. International Anesthesia Research Society (IARS), Washington D.C., May 2017.

Lagrew J, Gonsalves D, DeStephens A, Gifford A, Wishin J, Gunnett AM, Gravenstein N, Goldman J, **Lampotang S.** Decreasing incidence of arterial oxygen desaturation alarms in the post anesthesia care unit by using SpO2 threshold-based, automated verbal prompts to patients. University of Florida College of Medicine Celebration of Research Day, Gainesville, Florida. February 2017.

O'Hara D, Lizdas DE, Gravenstein N, **Lampotang S.** Air fresh gas flows below patient minute ventilation cause rebreathing and hypoxia. University of Florida College of Medicine Celebration of Research Day, Gainesville, Florida. February 2017.

Zimmerman M, Lizdas DE, Avari K, **Lampotang S,** Ihnatsenka B. Integrated tutor facilitating curriculum training with a mixed reality simulator for thoracic epidural and thoracic paravertebral blocks. University of Florida College of Medicine Celebration of Research Day, Gainesville, Florida. February 2017.

Lampotang S, Lizdas DE, Deredorf H, Gravenstein N, Lok B, Quarles J. Simulation based assessment of awareness to race differences in propofol pharmacodynamics. University of Florida College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. May 2016.

Lampotang S, Lizdas D, Quarles J, Gravenstein N. Propofol consciousness differs among Indians, Blacks, Chinese and Caucasians. Anes, 2016;123 (3S_Suppl):561-562. DOI: 10-1213/01.ane.000492831.65747.2b. Abstract PR444

Lampotang S, Lizdas DE, Cooper LA, Gravenstein N, Robinson A. Mixed reality simulation for training reservists and military medical personnel in subclavian central venous access. UF College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. April 2015.

Lampotang S, Lizdas DE, Cooper LA, Gravenstein N, Ihnatsenka B. A cross-sectional literacy and ultrasound skills trainer. UF College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. Oral Presentation, 3rd Place. April 2015.

Lampotang S, Gonsalves D, Lizdas DE, Gravenstein N. Effect of gas supply source selection for fire risk reduction on nasal cannula gas outflow. UF College of Medicine Celebration of Research Day, Gainesville, Florida. April 2015.

Ihnatsenka B, Le-Wendling L, Coleman CJ, Lizdas DE, **Lampotang S.** A mixed reality simulator augmented with real-time 3D visualization helps develop a modified thoracic paravertebral block. UF College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. April 2015.

Gonsalves B, **Lampotang S,** Gravenstein N. Device for preventing air embolus when using pressurizing cuffs with air-containing IV bags. UF College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. April 2015.

Mohammad S, Gravenstein N, Gonsalves D, **Lampotang S.** Higher Fresh Gas Flow Rates Decrease Tidal Volume during Pressure Control Ventilation. UF College of Medicine Department of Anesthesiology Celebration of Research Day, Gainesville, Florida. April 2015.

Brunges M, Foley-Brinza C, Sullivan T, Hughes T, Skorupski D, Robb A, Cordar A, David D, **Lampotang S.** Utlizing Simulation Scenarios Involving Interdisciplianry Teams for Improving Patient Safety in the Perioperative Setting. UF UF College of Medicine Department of Anesthesiology Celebration of Research Day. Gainesville, Florida. April 2015.

Gonsalves DB, Tucker AJ, **Lampotang S**, Gravenstein N. A Hypoxic Inspired Gas Mixture Is Readily Enabled by 2 L/min Room Air Fresh Gas Flow; abstract; UF Health Patient Safety Week, Gainesville, Florida. March 2015.

Brunges M, Foley-Brinza C, Sullivan T, Hughes T, Skorupski D, Robb A, Cordar A, David D, **Lampotang S.** Utlizing Simulation Scenarios Involving Interdisciplianry Teams for Improving Patient Safety in the Perioperative Setting.
UF College of Nursing Research Day. Gainesville, Florida. March 2015.

Brunges M, Foley-Brinza C, Sullivan T, Hughes T, Skorupski D, Robb A, Cordar A, David D, **Lampotang S.** Utlizing Simulation Scenarios Involving Interdisciplianry Teams for Improving Patient Safety in the Perioperative Setting. UF UF Health Patient Safety Week. Gainesville, Florida. March 2015.

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Virtual Humans for acquiring affective and team work skills: A case study in speaking up

Race specific *simulation* of propofol-induced loss of consciousness

Induction dose of propofol for sedation does not account for race during a simulated procedure

Cross-sectional literacy: a fundamental requirement for interpreting 2D medical imaging such as ultrasound

Press Release/Website/TV

April 24, 2020 – Interview for Radio Cade Podcast: Everything you need to know about the ventilator shortage and COVID-19 Part 1 (Short sample). *Do we have enough ventilators? How expensive is a ventilator? Can we make enough in time?*

April 23, 2020 – Interview with First Coast News UTLV NBC on Open Source Ventilator Project.
April 15, 2020 – News release feature in UF Newsroom, UF-led pandemic ventilator moves forward in meeting milestones toward approval for COVID-19. https://ufhealth.org/news/2020/uf-led-pandemic-ventilator-moves-forward-meeting-milestones-toward-approval-covid-19

April 9, 2020 – Press Release: Featured Professor on WUFT *From the Frontlines* Podcast titled, *UF Researchers Develop Low-Cost Open Source Ventilator.* https://www.wuft.org/news/from-the-front-lines-podcast/
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