

**MATTHEW JAMES GURKA**  
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**EDUCATION**

**PhD**, Biostatistics August 2004  
Supporting Program: Epidemiology  
School of Public Health  
The University of North Carolina at Chapel Hill

**BS**, Mathematics, *magna cum laude* May 1999  
Carroll University, Waukesha, WI

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**CURRENT APPOINTMENTS (ACADEMIC AND ADMINISTRATIVE)**

**Professor** October 2015 – Present  
Department of Health Outcomes and Biomedical Informatics  
College of Medicine  
University of Florida

Affiliate Appointments (University of Florida):  
Department of Pediatrics  
Department of Biostatistics  
Anita Zucker Center for Excellence in Early Childhood Studies

**Associate Chair of Education** March 2020 – Present  
Department of Health Outcomes and Biomedical Informatics  
College of Medicine  
University of Florida

**Associate Director** October 2015 – Present  
Institute for Child Health Policy  
University of Florida

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**PREVIOUS ADMINISTRATIVE APPOINTMENTS**

**Associate Chair** January 2019 – March 2020  
Department of Health Outcomes and Biomedical Informatics  
College of Medicine  
University of Florida

**Director of Education** July 2017 – January 2019  
Department of Health Outcomes and Biomedical Informatics  
College of Medicine  
University of Florida

**Founding Chair**

April 2014 – October 2015

**Interim Chair**

July 2011 – April 2014

Department of Biostatistics  
School of Public Health  
West Virginia University

**Program Director**

July 2010 – October 2015

Clinical Research Design, Epidemiology, and Biostatistics Program  
West Virginia Clinical and Translational Science Institute

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**PREVIOUS ACADEMIC APPOINTMENTS****Professor**

May 2015 – October 2015

Department of Biostatistics  
School of Public Health  
West Virginia University

**Associate Professor**

July 2011 – May 2015

Department of Biostatistics  
School of Public Health  
West Virginia University

**Associate Professor**

July 2010 – June 2011

Department of Community Medicine  
School of Medicine  
West Virginia University

**Associate Professor**

July 2010

Division of Biostatistics and Epidemiology  
Department of Public Health Sciences

Department of Pediatrics  
School of Medicine  
University of Virginia

**Assistant Professor**

August 2004 – June 2010

Division of Biostatistics and Epidemiology  
Department of Public Health Sciences

Department of Pediatrics  
School of Medicine  
University of Virginia

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**HONORS AND AWARDS**

Elected Fellow, American Statistical Association 2020

Exemplary Teacher Award, University of Florida College of Medicine 2017

University of North Carolina Department of Biostatistics James E. Grizzle Distinguished Alumnus	2013
Inducted as a faculty member into the Gamma Mu Chapter of Delta Omega (Honorary Society in Public Health)	2013
Carroll University Graduate of the Last Decade (GOLD) Alumnus Award	2008
Inducted into the University of Virginia School of Medicine Academy of Distinguished Educators	2008
Nominated for Gayle G. Arnold Award for Best Scientific Paper, American Academy for Cerebral Palsy and Developmental Medicine (AACPDM), 2008 Annual Meeting	2008
National Institute of Environmental Health Sciences Pre-Doctoral Training Grant in Environmental Biostatistics	1999 – 2004
Inducted into Delta Sigma Nu, Carroll University graduate honor society	1999
Carroll University Mathematics Student of the Year	1999

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#### PROFESSIONAL MEMBERSHIPS

Society for Pediatric Research (Elected)	2017 – Present
American Statistical Association	1999 – Present
<ul style="list-style-type: none"> <li>Ad-Hoc Committee on Statistical Leadership</li> <li>Caucus of Academic Representatives</li> </ul>	2014 – 2019 2014 – 2015
International Biometric Society, Eastern North American Region (ENAR)	2003 – Present
<ul style="list-style-type: none"> <li>Regional Advisory Board (RAB)</li> </ul>	2008 – 2011
American Public Health Association (APHA)	2014 – Present
Association of Clinical and Translational Statisticians	2014 – 2016
International Statistical Institute (Elected)	2006 – 2011

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#### NATIONAL AND INTERNATIONAL SERVICE

<b>Member, Editorial Board</b>	2017 – Present
<i>The Journal of Pediatrics</i>	
Editor, “Statistics, Explained”	2018 – Present
<b>Member, Executive Editorial Board</b>	2011 – 2014
<i>Pediatrics</i>	

**Associate Editor** 2007 – 2010  
*Journal of the Royal Statistical Society, Series A (Statistics in Society)*

**Study Sections:**

National Institute of Health (NIH) Kidney, Nutrition, Obesity and Diabetes (KNOD) Study Section (Standing Member) July 2018-June 2022

National Institutes of Health (NIH), National Institute of General Medical Sciences (NIGMS) Institutional Development Award (IDeA) Program Infrastructure for Clinical and Translational Research (IDeA-CTR) (U54) Special Emphasis Panel March 2018  
 February 2015  
 March 2014  
 February 2014

National Institutes of Health (NIH) Kidney, Nutrition, Obesity And Diabetes (KNOD) Study Section (Ad-Hoc Member) October 2017  
 September 2016

U.S. Department of Defense, U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP), Clinical Trial – Heart Disease Peer Review Panel December 2016

U.S. Department of Defense, U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP), Autism Research Program (ARP) Review Panel November 2015  
 January 2012

U.S. Department of Defense, U.S. Army Medical Research and Materiel Command, Congressionally Directed Medical Research Programs (CDMRP), Clinical and Rehabilitation Medicine Research Program Review Panel April 2014

National Institutes of Health (NIH), National Heart, Lung, and Blood Institute (NHLBI) Special Emphasis Panel RFA-HL-14-004: Ancillary Studies in Clinical Trials (R01) August 2013

U.S. Department of Defense Medical Research and Development Program (DMRDP), Applied Research and Advanced Technology Development Award (ARATDA), Wound Infection and Healing (WIH) Review Panel February 2010

**Other National Committees:**

USMLE Biostatistics and Epidemiology Test Material Development Committee 2017 – 2018

**Periodic Journal Reviewer:**

*Annals of Epidemiology*  
*The American Statistician*  
*Communications in Statistics – Simulation and Computation*  
*Computational Statistics and Data Analysis* 2005 – Present

*Journal of Applied Statistics*  
*Journal of Biopharmaceutical Statistics*  
*Journal of the Royal Statistical Society, Series A (Statistics in Society)*  
*Journal of the Royal Statistical Society, Series C (Applied Statistics)*  
*Statistics in Medicine*  
*Statistics and Probability Letters*

*Archives of Otolaryngology – Head and Neck Surgery*  
*Archives of Physical Medicine and Rehabilitation*  
*Diabetes Care*  
*Economics and Human Biology*  
*International Journal of Obesity*  
*Journal of Preventive Medicine*  
*New England Journal of Medicine*  
*Nutrition, Metabolism and Cardiovascular Diseases*  
*Pediatrics*  
*Pediatric Research*  
*Psychological Methods*

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#### UNIVERSITY SERVICE

Member, University of Florida Department of Health Outcomes and Biomedical Informatics Curriculum Committee	2019 – present
Member, University of Florida Department of Health Outcomes and Biomedical Informatics Admissions Committee	2019 – present
Member, University of Florida Research Opportunity Seed Fund Translational Biomedical Sciences Standing Review Committee	2019 – present
Member, University of Florida CTSI TL1 Advisory Committee	2016 – present
Member, University of Florida Department of Health Outcomes and Biomedical Informatics Leadership Committee	2015 – present
Member, University of Florida Anita Zucker Center for Excellence in Early Childhood Studies Steering Committee	2015 – present
College of Medicine Representative (Elected), University of Florida Faculty Senate	2016 – 2019
Member, University of Florida Department of Health Outcomes and Biomedical Informatics Education Committee	2015 – 2017
Member, University of Florida 2017 Early Childhood Summit Work Group	2016 – 2017
Member, West Virginia University Faculty Campaign Committee (in conjunction with the WVU Gold, Blue, and You Campus Campaign)	2014 – 2015

Member, West Virginia University Health Sciences Center (HSC) Graduate Council	2012 – 2015
Search Committee, West Virginia University School of Public Health Senior Associate Dean for Academic Affairs	2014
Chair, Search Committee, West Virginia University School of Public Health Department of Epidemiology: Department Chair and Stuart and Joyce N. Robbins Distinguished Professor	2013 – 2014
Search Committee, West Virginia University School of Public Health Founding Dean	2012 – 2014
Chair, Search Committee, West Virginia Clinical and Translational Science Institute (WVCTSI) Biomedical Informatics Program Director	2012 – 2013
Chair, Search Committee, West Virginia University School of Public Health (Department of Epidemiology) General Faculty Search (Multiple Positions, Open Rank)	2012
Search Committee, West Virginia University Department of Community Medicine/Emerging School of Public Health General Faculty Search (Multiple Positions, Open Rank)	2011 – 2012
Student Recruitment Committee, West Virginia University Department of Community Medicine/Emerging School of Public Health	2011 – 2012
Promotion and Tenure Committee, West Virginia University Department of Community Medicine/Emerging School of Public Health	2011 – 2012
Chair, School of Public Health Strategic Planning Research Committee West Virginia University	2011
Chair, Search Committee, West Virginia University School of Medicine Faculty Position (Open Rank) in Community Medicine (Biostatistics)	2010 – 2011
Search Committee, West Virginia University Prevention Research Center Health Data Analyst Position	2010
Search Committee, University of Virginia Curry School Assistant/Associate/Full Professor of Physical Activity & Exercise	2009 – 2010
University of Virginia Faculty Senate - Research and Scholarship Committee	2008 – 2010

University of Virginia School of Medicine Academy of Distinguished Educators	2008 – 2010
<ul style="list-style-type: none"> <li>- Steering Committee</li> <li>- Education Research and Resources Subcommittee</li> </ul>	
University of Virginia Masters of Public Health Degree Program Admissions Committee	2007 – 2010
University of Virginia Children’s Hospital Grants Committee	2004 – 2010
Search Committee, Curry School Professor of Positive Youth Development	2008 - 2009

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**GRANTS (AS PRINCIPAL INVESTIGATOR OR CO-PRINCIPAL INVESTIGATOR)**

NIH/NIDA (U01DA055358): 15/24 - Healthy Brain and Child Development National Consortium (co-PI’s: Lisa Scott and Kelly Gurka)	09/30/2021-06/30/2026
IES (R324A210081): Initial Efficacy Trial of Florida Embedded Practices and Intervention with Caregivers (co-PI’s: Brian Reichow, Mollie Romano, Patricia Snyder, Juliann Woods)	07/01/2021-06/30/2025
NIH/NHLBI (2T35 HL007489): Short-Term Training for Medical Students in Cardiovascular and Pulmonary Research (co-PI: Scott Berceci)	05/04/2021-01/31/2024
NIH/NIDA (R34DA050299-01): Florida Development in Early Childhood: Adversity and Drug Exposure (FL-DECADE) Study	09/30/2019-03/31/2022
NIH/NIDA (R34DA050299-01S2): FL-DECADE COVID Administrative Supplement (co-PI: Kelly Gurka)	07/01/2020-03/31/2022
NIH/NCATS (3UL1TR001427-06S1): Assessing the Feasibility of a Universal Prenatal Screening Tool to Identify Women at Risk of Pregnancy-Associated Death in Florida (Administrative Supplement to UF CTSA; co-PI’s: Duane Mitchell, Kelly Gurka, Hui Hu)	09/01/2020 – 06/30/2021
DOJ/BJA (2017-PM-BX-K038): Better Intelligence Gathering For Public Safety and Public Health (co-PI: Chris Delcher)	01/01/2019-09/30/2020
DOJ/BJA (2016-PM-BX-K005): Florida’s Next Generation Of Prescription Drug Related Surveillance: Data Insights that Enhance PDMP Best Practices (co-PI: Chris Delcher)	01/01/2019-09/30/2019

NIH/NHLBI (R01HL120960-04S1): Socioeconomic Status and Subjective Social Status as Modifiers of Stressors and Discrimination in their Relationship with MetS Severity over Time (Administrative Supplement to R01HL120960; co-PI: Mark DeBoer)	3/03/2017 – 4/30/2018
NIH/NHLBI (R01HL120960): An Ethnicity-Specific Metabolic Syndrome Severity Score to Assess Risk: The Jackson Heart Study (co-PI: Mark DeBoer)	8/15/2014 – 4/30/2019
WVU Program to Stimulate Competitive Research (PSCoR) Award: An In-Depth Examination of the Metabolic Syndrome in the Jackson Heart Study Using a Severity Score.	2013
NIH/NIDDK (R21DK085363-01A1): Development of a Childhood Metabolic Syndrome Risk Score for Predicting Adult Disease (co-PI: Mark DeBoer)	2010 – 2013
HRSA/MCH: Progress in Reducing Developmental and Behavioral Co-morbidities of Asthma in Children with Emphasis on Health Disparities Risk Factors (Subcontract PI)	2010 – 2012
NIH/NICHD (R03 HD055298-01A1): Chronic Illness and Developmental Health Trends in Children	2008 – 2010
UVA Children's Hospital Faculty Grant-in-Aid: UVA Center for Excellence in Child Health Research	2008 – 2009

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#### GRANTS (AS BIOSTATISTICS CORE DIRECTOR)

NIH/NIGMS U54: West Virginia IDEA-CTR (PI: Sally Hodder) West Virginia Clinical and Translational Science Institute (WVCTSI) - Program Director, Clinical Research Design, Epidemiology, and Biostatistics (CRDEB) Program	8/15/2012-6/30/2017 30% Annual Effort
NIH/NIGMS (1P20GM109098-01): West Virginia Stroke CoBRE (PI: James Simpkins) - <i>Transferred leadership of core in 2014 to Dr. Michael Regier, Assistant Professor in the Dept. of Biostatistics</i>	9/8/2014 – 5/31/2019 5% Annual Effort

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#### GRANTS (AS CO-INVESTIGATOR OR STATISTICAL CONSULTANT)

##### *Federal*

AHRQ R18: Scaling Interoperable Clinical Decision Support for Patient-Centered Chronic Pain Care (PI's: Christopher Harle and Ramzi Salloum)	09/13/2021-08/31/2024 5% Annual Effort
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NIH/NIDA R33: Nudging Primary Care Providers toward Guideline-Recommended Opioid Prescribing through Easier and More Convenient EHR Information Design (PI: Christopher Harle)	09/01/2020-06/30/2021 2% Annual Effort
NIH/NIDA R00: Social Influence Strategies during a Web-Based Smoking Prevention Intervention for Adolescents (PI: Georges Khalil)	01/01/2020-12/31/2022 1% Annual Effort
NIH/NHLBI R01: AIM2ACT: A Mobile Health Tool to Facilitate Asthma Self-Management during Early Adolescence (PI: David Fedele)	06/10/2020-05/31/2025 10% Annual Effort
NIH/NIDDK R01: Role of Screening and Early Intervention in Primary Care with Low-Dose Pioglitazone for Patients with T2DM and NASH (PI: Kenneth Cusi)	05/08/2020-02/29/2024 10% Annual Effort
NIH/NCI R01/R37: Text and Talk: A Multi-Level Intervention to Increase Provider HPV Vaccine Recommendation Effectiveness (PI: Stephanie Staras)	7/01/2019-6/30/2024 5% Annual Effort
NIH/NIDDK R01: Understanding pancreatic endocrine and Exocrine loss in pre-type I diabetes (PI: Martha Campbell-Thompson)	8/01/2020 – 7/31/2024 1% Effort (Year 1)
AHRQ U18: The Child Health Quality (CHeQ) Program (PI: Elizabeth Shenkman)	9/30/2016 – 6/30/2020 5% Annual Effort
NIH/NCATS UL1: Together: Transforming and Translating Discovery to Improve Health (UF CTSI) (PI: David Nelson / Duane Mitchell)	9/1/2016 – 6/30/2020 3% Annual Effort
NIH/NCCIH R01: REVIVE: Resveratrol to Enhance Vitality and Vigor in Elders (PI: Stephen Anton)	04/01/2018 – 03/31/2019 3% Annual Effort
NIH/NIDDK: Pancreatic Volume in Preclinical Type 1 Diabetes (PI: Martha Campbell-Thompson)	09/20/2013 - 8/31/3017 5% Annual Effort
NIH/NICHD R21: Antibiotic Effects on the Developing Microbiome Metabolome and Morbidities in Preterm Neonates (PI: Josef Neu)	12/07/2016 – 11/30/2018 5% Annual Effort
NIH/NHGRI: Genomic Medicine Implementation: The Personalized Medicine Program (PI: Julie Johnson)	5/01/2016 – 4/30/2018 2% Annual Effort
NIH/NCI R21: Maximizing HPV Vaccination: Real-Time Reminders, Guidance, and Recommendations (PI: Stephanie Staras)	2/08/2016 – 1/31/2018 1% Annual Effort

NIH/NICHD R01: Do Cell Phone Laws Reduce Calling, Texting, and Crashes among Young Drivers? (PI: Motao Zhu)	1/1/2013 – 6/30/2013 7.5% Annual Effort
USDHHS CDC / NCIPC: WVU Injury Control Research Center (PI: Jeffrey Coben)	8/1/2010 – 5/31/2013 15% Annual Effort
HRSA: West Virginia Rural Health Research Center (PI: Michael Hendryx)	9/1/2010 – 7/31/2012 5% Annual Effort
USDHHS CDC: WV Prevention Research Center (PI: Geri Dino)	8/1/2010 – 11/30/2011 15% Annual Effort
NIH/NICHD R03: APOE and Functional Severity in Cerebral Palsy (PI: James Blackman)	9/1/2008 – 8/30/2010 5% Annual Effort
MCH/HRSA: Asthma, Health Disparities, and Developmental Pediatrics (PI: James Blackman)	7/1/2009 – 6/30/2010 10% Annual Effort
NIH/NICHD (1T15HD050255-01A1): NIH Grant Prep. Workshops for Rehabilitation Research (PI: James Blackman)	4/1/2008 - 3/31/2010 5% Annual Effort
US Dept. of Transportation, Research and Innovative Technology Administration (DTRT06-G-0048): Emergency Medical Services and Congestion (awarded to UAB: UVA subcontract PI: Matthew Trowbridge)	8/15/2008 – 8/14/2009 5% Annual Effort
NIH/NCMRR (K24 HD041504-03): Growth and Maturation in Cerebral Palsy (PI: Richard Stevenson)	8/1/2006 – 7/31/2008 5% Annual Effort
NIH/NIDDK (R18 DK062942-02): Improving Control with Activity and Nutrition (ICAN) (PI: Viktor Bovbjerg)	9/1/2004 – 8/30/2006 10.5% Annual Effort
NIH/NCMRR (R24 HD039631-05): Enhancing Rehabilitation Research in the South (ERRIS) (PI: James Blackman)	9/1/2004 – 6/30/2006 5% Annual Effort

#### *State*

VA Neurotrauma Initiative: Growth Hormone Treatment in TBI (PI: Peter Patrick)	7/1/2007 - 6/30/2010 5% Annual Effort
VA Department of Rehabilitation Services (CNI-04-093): Effects of Donepezil on Recovery of Executive Functions following Severe TBI in Children (PI: Peter Patrick)	8/1/2005 – 7/31/2006 5% Annual Effort

## *Other*

Helmsley Charitable Trust Expansion and Evaluations of ECHO for People with Diabetes on Intensive Insulin Therapy (IIT) (PI: David Maahs)	7/01/2019 – 6/30/2022 15% Annual Effort
Fogarty International Center The Evaluation of a mHealth Platform for Diarrheal Disease Decision Support and Real-time Epidemiology (PI: Eric Nelson)	8/01/2018 – 1/31/2018 3% Annual Effort
Helmsley Charitable Trust Extension for Community Health Outcomes (ECHO) Type 1 Diabetes Study (PI: Michael Haller)	1/01/2018 – 12/31/2018 5.42% Annual Effort
T1D Exchange Promoting Health Equity for Youth with Type 1 Diabetes Through Outreach, Networks, and Education: All for ONE! (PI's: Ashby Walker and Desmond Schatz)	8/01/2016 – 1/31/2018 2% Annual Effort
Benedum Foundation Emergency Room Utilization by Children and Adults for Dental Needs in West Virginia (PI: David Felton)	1/31/2014 – 1/31/2016 5% Annual Effort (in-kind)
Benedum Foundation WVU Center for Health Practitioners (My First Patient) (PI: Patricia Chase)	1/1/2013 – 6/30/2015 3% Annual Effort Year 1 3% Annual Effort Year 2 (in-kind)
UVa Department of Pediatrics Contracts (Internal funding for general statistical consulting for the department)	9/1/2004 – 7/23/2010 25% Annual Effort
United Cerebral Palsy Foundation: Bone Accrual in Pre-Pubertal Children with Cerebral Palsy (PI: Christine Houlihan)	1/1/2009 – 12/31/2011 5% Effort (Year 2)
UVa Children's Hospital and Institute of Quality and Patient Safety Research Grants: Gloving and Handwashing to Prevent Invasive Infections in Necrotizing Enterocolitis (PI: David Kaufman)	1/1/2009 – 12/31/2009 5% Annual Effort

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## PEER-REVIEWED PUBLICATIONS

\* Indicates the corresponding author

\*\* Indicates co-first authors

158. Fedele DA\*, Thomas JG, McConville A, McQuaid EL, Voorhees S, Janicke DM, Abu-Hasan M, Chi X, **Gurka MJ**. Using mobile health to improve asthma self-management: a pilot randomized controlled trial. *Journal of Adolescent Health*. Accepted 2021 June.
157. Walker AF\*, Cuttriss N, Haller MJ, Hood KK, **Gurka MJ**, Filipp SL, et al. Democratizing type 1 diabetes specialty care in the primary care setting to reduce health disparities: project extension for community healthcare outcomes (ECHO) T1D. *BMJ Open Diabetes Research and Care*. Accepted 2021 June.
156. Thompson, LA\*\*, **Gurka MJ\*\***, Filipp SL, Schatz DA, Mercado RE, Ostrov DA, Atkinson MA, Rasmussen SA. The influence of selection bias on identifying an association between allergy medication use and SARS-CoV-2 infection. *eClinical Medicine*. Accepted 2021 May.
155. Viamonte M, Filipp SL, Zaidi Z, **Gurka MJ**, Byrne BJ, Kang PB\*. Phenotypic implications of pathogenic variant types in Pompe Disease. *Journal of Human Genetics*. Accepted: 2021 April.
154. Walker AF\*, Hood KK, **Gurka MJ**, et al. Barriers to technology use and endocrinology care for underserved communities with Type 1 Diabetes. *Diabetes Care*. Accepted: 2021 April.
153. LeLaurin JH, **Gurka MJ**, Chi X, Lee J-H, Hall J, Warren GW, Salloum RG\*. Concordance between electronic health record and tumor registry documentation of smoking status among patients with cancer. *JCO Clinical Cancer Informatics*. Accepted: 2021 April.
152. Cardel MI\*, Lee AM, Chi X, Newsome F, Miller DR, Bernier A, Thompson LA, **Gurka MJ**, Janicke DM, Butryn ML. Feasibility & acceptability of an acceptance-based therapy healthy lifestyle intervention for diverse adolescent girls with overweight/obesity. *Obesity Science and Practice*. 7: 291-301, 2021.
151. Lin A, Mack JA, Bruggeman B, Jacobsen LM, Posgai AL, Wasserfall CH, Brusko TM, Atkinson MA, Gitelman SE, Gottlieb PA, **Gurka MJ**, Mathews CE, Schatz DA, Haller MJ\*. Low-dose ATG/GCSF in established Type 1 Diabetes: a five-year follow-up report. *Diabetes*. 70(5): 1123-1129, 2021.
150. DeBoer MD\*, Lin B, Filipp SL, Cusi K, **Gurka MJ**. Severity of metabolic syndrome is greater among non-alcoholic adults with elevated ALT and advanced fibrosis. *Nutrition Research*. 88: 34-43, 2021.
149. Bruggeman BS\*, Zimmerman C, LaPorte A, Stalvey M, Filipp SL, **Gurka MJ**, Silverstein JH, Jacobsen LM. Barriers to retinopathy screening in youth and young adults with type 1 diabetes. *Pediatric Diabetes*. 22: 469-473, 2021.

148. Thompson LA\*, Filipp SL, Mercado RE, **Gurka MJ**. Streamlining primary care screening for adverse childhood experiences. *Pediatric Research*. doi: 10.1038/s41390-020-01341-1. Epub ahead of print, 2021 Jan 14.
147. **Gurka MJ\***, Mack JA, Chi X, DeBoer MD. Use of metabolic syndrome severity to assess treatment with vitamin E and pioglitazone for non-alcoholic steatohepatitis. *J Gastroenterol Hepatol*. 36(1):249-256, 2021.
146. Staras SAS\*, Richardson E, Merlo LJ, Bian J, Thompson LA, Krieger JL, **Gurka MJ**, Sanders A, Shenkman EA. A Feasibility trial of parent HPV vaccine reminders and phone-based motivational interviewing. *BMC Public Health*. 21:109, 2021.
145. Shenkman EA\*, Thompson L, Bussing R, Forrest CB, Woodard J, Sun Y, Mack J, Mistry KB, **Gurka MJ**. Provider specialty and receipt of metabolic monitoring for children taking antipsychotics. *Pediatrics* 147,1 : e20200658, 2021.
144. Cardel M\*, Pavela G, Janicke D, Huo T, Miller D, Lee A, **Gurka MJ**, Dhurandhar E, Peters J, Caldwell A, Krause E, Fernandez A, Allison D. Experimentally manipulated low social status and food insecurity alter eating behavior among adolescents: a RCT. *Obesity* 28: 2010-2019, 2020.
143. **Gurka MJ\***, Siddiqi SU, Filipp SL, Mercado R, Thompson LA, Janicke DM, Shenkman EA. Attention deficit hyperactivity disorder medications and BMI trajectories: The role of medication type, sex and age. *Pediatric Obesity* e12738, 2020.
142. Ruoss JL\*, Bazaciu C, Russell JT, Cruz D, Li N, **Gurka MJ**, Filipp SL, Polin RA, Triplett EW, Neu J. Routine early antibiotic use in symptomatic preterm neonates (reason): a pilot randomized controlled trial. *The Journal of Pediatrics*. 23:S0022-3476(20)31248-8, 2020.
141. Bruggeman BS, Vincent HK, Chi X, Filipp SL, Mercado R, Modave F, Guo Y, **Gurka MJ**, Bernier A\*. Simple tests of cardiorespiratory fitness in a pediatric population. *PLoS One*. 2020;15(9):e0238863, 2020.
140. Staras SAS\*, Vadaparampil ST, Thompson LA, Scherr C, **Gurka MJ**, Filipp SL, Shenkman EA. Postcard reminders for HPV vaccination mainly primed parents for providers' recommendations. *Prev Med Rep* 20:101188, 2020.
139. Zimmerman C\*, Bruggeman B, LaPorte A, Kaushal S, Stalvey M, Beauchamp G, Dayton K, Hiers P, Filipp SL, **Gurka MJ**, Silverstein JH, Jacobsen LM. Real-world screening for retinopathy in youth with type 1 diabetes using a non-mydriatic fundus camera. *Diabetes Spectr*. ds200017, 2020.
138. Cardel MI\*, Chi X, Min YI, Sims M, Musani SK, Dulin A, Gravlee CC, Smith SM, DeBoer MD, **Gurka MJ**. Experiences of discrimination are associated with worse metabolic syndrome severity among African Americans in the Jackson Heart Study. *Annals of Behavioral Medicine* kaaa050, 2020.

137. DeBoer MD\*, Filipp SL, Sims M, Solomon MK, **Gurka MJ**. Risk of ischemic stroke increases over the spectrum of metabolic syndrome severity. *Stroke*. 2020 Aug;51(8):2548-2552.
136. Cardel M\*, Guo Y, Sims M, Dulin A, Miller D, Chi X, Pavela G, DeBoer M, **Gurka MJ**. Objective and subjective socioeconomic status associated with metabolic syndrome severity among African American adults in Jackson Heart Study. *Psychoneuroendocrinology* 117:104686, 2020.
135. Lemas DJ\*, Mack JA, Schoch JJ, Cacho N, Plasencia E, Rhoton-Vlasak AS, Neu J, Thompson LA, Magda F, Patel K, Hogan WR, Lipori GP, **Gurka MJ**. Postnatal pediatric systemic antibiotic episodes during the first three years of life are not associated with mode of delivery. *PLOS ONE* 15(3): e0229861, 2020.
134. LeLaurin JH, Dallery J, Silver NL, Markham M, Theis RP, Chetram DK, Staras SA, **Gurka MJ**, Warren GW, Salloum R\*. An implementation trial to improve tobacco treatment for cancer patients: patient preferences, treatment acceptability and effectiveness. *International Journal of Environmental Research and Public Health* 17(7) pii: E2280, 2020.
133. Khan AI, Mack JA, Salimuzzaman M, Zion MI, Sujon H, Ball RL, Maples S, Rashid M, Chisti MJ, Sarker SA, Biswas D, Hossin R, Bardosh KL, Begum YA, Ahmed A, Pieri D, Haque F, Rahman M, Levine AC, Qadri F, Flora S, **Gurka MJ**, Nelson EJ\*. Electronic decision-support improves diarrhoeal disease guideline: a cluster randomized controlled trial. *The Lancet Digital Health* 2(5):e250-e258, 2020.
132. Thompson LA\*, Filipp SL, Mack JA, Mercado RE, Barnes A, Bright M, Shenkman EA, **Gurka MJ**. Specific adverse childhood experiences and their association with other adverse childhood experiences, asthma and emotional, developmental and behavioral problems in childhood. *Pediatric Research*, DOI: 10.1038/s41390-020-0784-y, 2020.
131. Thompson LA\*, Mercado RE, **Gurka MJ**, Rivkees SA. A centralized research hub in a pediatric academic center. *The Journal of Pediatrics* 218:5-6, 2020.
130. Merritt TA, Rasmussen SA, Bright MA, Roussos-Ross D, Sims SM, **Gurka MJ**, Thompson LA\*. Variation in Tdap and influenza vaccination coverage among pregnant women by insurance type — Florida, 2016–2018. *MMWR Morb Mortal Wkly Rep* 69:72–76, 2020.
129. Smith SM\*, **Gurka MJ**, Winterstein AG, Handberg E, Pepine CJ, Cooper-DeHoff RM. Redefining resistant hypertension: a comparison of cardiovascular risk associated with the 2018 versus 2008 American Heart Association definitions for resistant hypertension. *Circulation: Cardiovascular Quality and Outcomes* 13: e005979, 2020.
128. Reedy R, Filipp S, **Gurka MJ**, Shenoy A, Davis M\*. Utility of esophagogastroduodenoscopy (EGD) in the evaluation of uncomplicated abdominal pain in children. *Global Pediatric Health*, DOI: 10.1177/2333794X19898345, 2019.

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6. **Gurka MJ\***, Edwards LJ, Muller KE, Kupper LL. Extending the Box-Cox transformation to the linear mixed model. *Journal of the Royal Statistical Society, Series A* 169: 273-288, 2006.
5. Attridge JT, Herman AC, **Gurka MJ**, Griffin MP, McGahren ED, Gordon PV.\* Discharge outcomes of extremely low birth weight infants with spontaneous intestinal perforations. *Journal of Perinatology* 26: 49-54, 2006.
4. **Gurka MJ.\*** Selecting the best linear mixed model under REML. *The American Statistician* 60: 19-26, 2006.
3. Doctor A, Platt R, Sheram ML, Eischeid A, McMahon T, Maxey T, Doherty J, Axelrod A, Kline J, **Gurka M**, Gow A, Gaston B.\* Hemoglobin conformation couples S-nitrosothiol content in erythrocytes to O<sub>2</sub> gradients. *Proceedings of the National Academy of Sciences* 102: 5709-5714, 2005.
2. Chalermkulrat W, Neuringer IP, Schmitz JL, Catellier DJ, **Gurka MJ**, Randell SH, Aris RM.\* Human leukocyte antigen mismatches predispose to the severity of bronchiolitis obliterans syndrome after lung transplantation. *Chest* 123(6): 1825-31, 2003.
1. Henderson RC\*, Lark RK, **Gurka MJ**, Worley G, Fung EB, Conaway M, Stallings VA, Stevenson RD. Bone density and metabolism in children and adolescents with moderate to severe cerebral palsy. *Pediatrics* 110: e5, 2002.

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#### BOOK CHAPTERS (INVITED AND PEER-REVIEWED)

3. Reger-Nash B, Bauman A, Abildso CG, Zullig K, Cottrell L, **Gurka M**. Wheeling Walks: A targeted mass-media-led physical activity campaign. *Implementing Physical Activity Strategies*. 2014; Human Kinetics: Champaign, Illinois, Chapter 9.

2. **Gurka MJ**, Kelley GA, and Edwards LJ. Fixed and random effects models. *Wiley Interdisciplinary Reviews: Computational Statistics*. 2011; doi: 10.1002/wics.201.
1. **Gurka MJ** and Edwards LJ. Mixed Models. *Handbook of Statistics, 27: Epidemiology and Medical Statistics*. 2008; Elsevier: Amsterdam, Chapter 9.

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#### LETTERS AND BOOK REVIEWS IN REFEREED JOURNALS

**Gurka MJ.** *Basic Concepts in Statistics and Epidemiology* by MacDonald, T.H. (book review). *Journal of the Royal Statistical Society, Series A*. 2008; 171: 506-507.

**Gurka MJ.** *Applied Mixed Models in Medicine, 2<sup>nd</sup> Edition* by Brown, H. and Prescott, R. (book review). *Biometrics*. 2007; 63: 626-627.

**Gurka MJ.** Letter to the Editor: Response to comment by Keselman, Algina, Kowalchuk, and Wolfinger on “Selecting the best linear mixed model under REML”. *The American Statistician*. 2006; 60: 210-211.

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#### SELECTED PRESENTATIONS (AS FIRST AUTHOR)

21. **Gurka MJ**, Siddiqi SU, Filipp SL, Mercado R, Thompson LA, Janicke DM, Shenkman EA. *ADHD and Obesity: BMI Trajectories Impacted by Medication Type, Sex and Age of Medication Initiation*. Platform presentation at the Pediatric Academic Societies (PAS) 2019 Meeting, Baltimore, MD, April 29, 2019.
20. **Gurka MJ**, Filipp SL, Pearson TA, DeBoer MD. *Estimating cardiometabolic risk using existing scoring systems*. Poster presentation at the American Diabetes Association’s 78th Scientific Sessions, Orlando, FL, June 24, 2018.
19. **Gurka MJ**, Vishnu A, DeBoer MD. *The metabolic syndrome and risk of future type 2 diabetes: is the sum truly greater than its parts?* Poster presentation at the American Diabetes Association’s 76th Scientific Sessions, New Orleans, LA, June 12, 2016.
18. **Gurka MJ**, Conway BN, Andrew ME, Burchfiel CM, DeBoer MD. *Additive Interactions and the Metabolic Syndrome*. Presented at the International Biometric Society Eastern North American Region (ENAR) Annual Meeting, Miami, Florida, March 17, 2015.
17. **Gurka MJ**, DeBoer MD. *Metabolic syndrome severity in the Jackson Heart Study*. Presentation at the National Institute for Minority Health and Health Disparities Grantees’ Conference, National Harbor, Maryland, December 1-3 2014.
16. **Gurka MJ**, DeBoer MD. *Use of a Sex- and Ethnicity-Specific Childhood Continuous Metabolic Syndrome Risk Score to Detect Risk of Glucose Intolerance*. Poster presentation at the Pediatric Endocrine Society/European Pediatric Endocrine Society joint conference, Milan, Italy, September 2013.

15. **Gurka MJ, DeBoer MD.** *A sex- and ethnicity-specific metabolic syndrome risk score: Formulation in NHANES and validation in the Jackson Heart Study.* Oral presentation at the Endocrine Society National Conference, San Francisco, CA, June 2013 (oral presentation).
14. **Gurka MJ, Ice C, Sun S, DeBoer MD.** *Development of a sex- and ethnicity-specific childhood continuous metabolic syndrome risk score.* Poster presentation at the Endocrine Society's 94<sup>th</sup> Annual Meeting and Exposition, Houston, TX: June 23-26, 2012.
13. **Gurka MJ and DeBoer MD.** *Development of a childhood metabolic syndrome risk score for predicting adult disease.* Poster presentation at the American Public Health Association 139<sup>th</sup> Annual Meeting and Exposition, Washington, DC: November 1, 2011.
12. **Gurka MJ, Kuperminc MN, Hassani S, Tylkowski C, Oeffinger D.** *Validating new skinfold thickness equations for estimating body fat in children with cerebral palsy.* Presented at the American Academy for Cerebral Palsy and Developmental Medicine (AACPDM) 65<sup>th</sup> Annual Meeting, Las Vegas, NV: October 14, 2011.
11. **Gurka MJ, LoCasale-Crouch J, Blackman JA.** *Long term cognition, achievement, socioemotional, and behavioral development of healthy late preterm infants.* Poster presentation at the University of Virginia Children's Hospital Research Symposium, Charlottesville, VA: May 27, 2010.
10. **Gurka MJ, Kuperminc MN, Houlihan CM, Stevenson RD.** *Assessment of the validity of skinfold thickness equations in estimating body fat measurement in children with CP.* Poster presentation at the University of Virginia Children's Hospital Research Symposium, Charlottesville, VA: May 28, 2009. (*Voted in the "Final Four" (out of 33 posters) in the Best Poster Competition*).
9. **Gurka MJ, Blackman JA, Heymann PW.** *Risk of childhood asthma in relation to the timing of early child care exposures.* Poster presentation at the University of Virginia Children's Hospital Research Symposium, Charlottesville, VA: May 28, 2009. (*Voted in the "Final Four" (out of 33 posters) in the Best Poster Competition*).
8. **Gurka MJ, Blackman JA, Heymann PW.** *Risk of childhood asthma in relation to the timing of early child care exposures.* Platform presentation at the 2009 Pediatric Academic Societies' (PAS) Annual Meeting, Baltimore, MD: May 5, 2009.
7. **Gurka MJ and Muller KE.** *Achieving covariance robustness in the linear mixed model.* Poster presentation at the 2009 International Biometric Society: Eastern North American Region (ENAR) Spring Meeting, San Antonio, TX: March 15, 2009.
6. **Gurka MJ, Kuperminc MN, Matuszewski J, Stevenson RD, Henderson RC.** *Assessment of the validity of skinfold thickness equations in estimating body fat measurement in children with CP.* Presented at the American Academy for Cerebral Palsy and Developmental Medicine (AACPDM) 62<sup>nd</sup> Annual Meeting, Atlanta, GA: September 18, 2008. (*Nominated for Gayle G. Arnold Award for Best Scientific Paper*)

5. **Gurka MJ** and Coffey CS. *Internal pilot designs for observational studies*. Presented at the 2008 International Biometric Society: Eastern North American Region (ENAR) Spring Meeting, Washington, D.C.: March 18, 2008.
4. **Gurka MJ**, Edwards LJ, Muller KE. *Violating the assumption of independence of the error components in the linear mixed model for longitudinal data*. Presented at the 2006 Joint Statistical Meetings, Seattle, WA: August 7, 2006.
3. **Gurka MJ**, Edwards LJ, Sen PK. *Model selection for the linear mixed model when the response is transformed*. Presented at the 2004 Joint Statistical Meetings, Toronto, Canada: August 10, 2004.
2. **Gurka MJ** and Edwards LJ. *Inference techniques for data transformations in linear mixed models for longitudinal data*. Presented at the 2004 International Biometric Society: Eastern North American Region (ENAR) Spring Meeting, Pittsburgh, PA: March 31, 2004.
1. **Gurka MJ**, Edwards LJ, Muller KE. *Data transformations in linear mixed effects models for longitudinal data*. Presented at the 2003 Joint Statistical Meetings, San Francisco, CA: August 5, 2003.

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#### INVITED LECTURES

31. *How to use statistical consultation: biostatistical challenges in rehabilitation research* (with Charity Patterson). *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Charleston, SC: January 12, 2021.
30. *Investigating the Effects of Early Exposure to Opioids and Other Substances: the National HEALthy Brain and Child Development Study*. Anita Zucker Center for Excellence in Early Childhood Studies Seminar, University of Florida, Gainesville FL: February 21, 2020.
30. *How to use statistical consultation: biostatistical challenges in rehabilitation research* (with Charity Patterson). *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Charleston, SC: January 8, 2020.
29. *What quantitative questions should be addressed?* Pilot Grant Writers' Workshop, Clinical and Translational Science Institute, University of Florida, Gainesville, FL: March 5, 2019.
28. *How to use statistical consultation: biostatistical challenges in rehabilitation research* (with Charity Patterson). *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Charleston, SC: January 9, 2019.
27. *Balancing research and clinical practice: the case of implementing a screening program for ACEs*. University of Florida Department of Pediatrics Grand Rounds, Gainesville, FL: February 15, 2018.

26. *How to use statistical consultation: biostatistical challenges in rehabilitation research* (with Charity Patterson). *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Charleston, SC: January 10, 2018.
25. *What quantitative questions should be addressed?* Pilot Grant Writers' Workshop, Clinical and Translational Science Institute, University of Florida, Gainesville, FL: October 23, 2017.
24. *Measuring the severity of the metabolic syndrome to better assess risk of disease.* University of Florida Endocrinology Grand Rounds, Gainesville, FL: May 11, 2016.
23. *Measuring the severity of the metabolic syndrome in children to better assess risk of disease.* University of Florida Department of Pediatrics Grand Rounds, Gainesville, FL: April 28, 2016.
22. *How to use statistical consultation: biostatistical challenges in rehabilitation research* (with Paul Nietert and Charity Patterson). *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Charleston, SC: January 13, 2016.
21. *Examining the severity of the metabolic syndrome.* Collaborative Studies Coordinating Center, Department of Biostatistics, University of North Carolina, Chapel Hill, NC: November 23, 2015.
20. *How to use statistical consultation: biostatistical challenges in rehabilitation research* (with Paul Nietert). *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Charleston, SC: January 14, 2015.
19. *Public health in West Virginia: challenges and opportunities.* 2014 West Virginia Neuroscience Retreat, Oglebay Resort, Wheeling, WV: July 20-21, 2014.
18. *How to use statistical consultation: biostatistical challenges in rehabilitation research.* *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Chapel Hill, NC: January 13, 2014.
17. *Biostatistics as a leader in an emerging academic research enterprise.* James E. Grizzle Distinguished Alumni Award Lecture, Department of Biostatistics, University of North Carolina, Chapel Hill, NC: April 11, 2013.
16. *How to use statistical consultation: biostatistical challenges in rehabilitation research..* *Training in Grantsmanship for Rehabilitation Research (TIGRR) Workshop*, Chapel Hill, NC: January 14, 2013.
15. *Childhood health and behavior: a longitudinal study.* Departments of Biostatistics and Statistics, University of Kentucky, Lexington, KY: March 29, 2012.
14. *Biostatistical challenges in rehabilitation research.* Ninth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 12, 2011.

13. *Faculty development of biostatistics students with a focus on applications*. 60<sup>th</sup> Anniversary of the University of North Carolina's Department of Biostatistics, Chapel Hill, NC: October 14, 2009.
12. *Biostatistical challenges in rehabilitation research*. Seventh Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 14, 2009.
11. *Biostatistics as a career*. Department of Mathematics, Carroll University, Waukesha, WI: September 4, 2008.
10. *Biostatistical challenges in rehabilitation research*. Sixth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 16, 2008.
9. *Internal pilot designs and mixed models*. Presented at the 2007 Joint Statistical Meetings, Salt Lake City, UT: July 30, 2007.
8. *Extending the Box-Cox transformation to the linear mixed model*. Presented at the 2007 International Biometric Society: Eastern North American Region (ENAR) Spring Meeting, Atlanta, GA: March 13, 2007.
7. *Internal pilot designs for studies with repeated measures*. Department of Public Health Sciences Research Seminar, University of Virginia School of Medicine: February 7, 2007.
6. *Biostatistical challenges in rehabilitation research*. Fifth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 25, 2007.
5. *Biostatistical challenges in rehabilitation research*. Fourth Annual Intensive Workshop on Grant Writing, Preparation, and Submission in Rehabilitation Research, Charlottesville, VA. Sponsored and organized by *Enhancing Rehabilitation Research in the South (ERRIS)*: January 19, 2006.
4. *Box-Cox transformations in linear mixed models*. Department of Biostatistics Course (Advanced Linear Models II), University of North Carolina at Chapel Hill: March 22, 2005.
3. *Box-Cox transformations in linear mixed models*. Department of Psychology, Quantitative Psychology Program, Quantitative Forum, University of North Carolina at Chapel Hill: March 21, 2005.
2. *The Box-Cox transformation in the general linear mixed model for longitudinal data: estimation and inference*. Department of Biostatistics Course (Advanced Linear Models II), University of North Carolina at Chapel Hill: April 20, 2004.

1. *Biostatistics as a career and longitudinal data analysis using the general linear mixed model*. Department of Mathematics, Carroll University, Waukesha, WI: April 10, 2003.

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## TEACHING ACTIVITIES (CLASSROOM)

**Applied Topics in Pragmatic Clinical Trials and Implementation Science** Spring 2021  
(UF GMS 6813: 2 credits)

- Elective course for UF PhD Health Outcomes and Implementation Science Students

**Translational Research and Therapeutics: Bench, Bedside, Community & Policy** (UF GMS 6847: 3 credits) Fall 2021  
Fall 2020  
Fall 2019

- Required course for UF PhD in Biomedical Sciences (Pharmacology and Therapeutics concentrations); optional course for other UF PhD in Biomedical Sciences concentrations
- T3 Implementation Science Section Leader

**Ensuring Rigor and Reproducibility in Clinical and Translational Research** (UF GMS 6848: 1 credit; online) Summer A 2020  
Summer A 2019

- Required course for UF Health Outcomes and Policy MS and PhD Students

**Health Outcomes and Biomedical Informatics PhD Seminar: Applied Research** (UF GMS 7886: 3 credits) Spring 2018  
Spring 2017

- Required course for UF Health Outcomes and Policy PhD Students Spring 2016

**Data Management and Reporting** Fall 2015  
(WVU BIOS 611: 3 credits) Fall 2013  
Fall 2012

- Required course for WVU Masters in Public Health (Biostatistics and Epidemiology concentrations), Masters in Science (Biostatistics), and PhD in Epidemiology (School of Public Health)
- Textbook: Delwiche, L.D. and Slaughter, S.J. (2012). *The Little SAS Book, 5<sup>th</sup> Edition*

**Applied Biostatistics Lab** Fall 2012-Fall 2014  
(WVU BIOS 602: 1 credit)

- Required course for all WVU Masters in Public Health degrees as well as PhD in Social and Behavioral Sciences and PhD in Occupational and Environmental Health (School of Public Health)
- Textbook: Delwiche, L.D. and Slaughter, S.J. (2012). *The Little SAS Book, 5<sup>th</sup> Edition*

**Applied Biostatistics III**  
(WVU BIOS 604; 3 credits)

Fall 2013

- Co-taught with Dr. Christa Lilly (Assistant Professor, WVU Department of Biostatistics)
- Required course for WVU Applied Biostatistics Certificate Program; elective course for numerous MPH/PhD programs in the School of Public Health

**Biostatistical Consulting**  
(WVU BIOS 623; 1 credit)

Spring 2013

- Co-taught with Dr. Dustin Long (Assistant Professor, WVU Department of Biostatistics)
- Required course for WVU Masters in Public Health – Biostatistics Program

**Categorical Data Analysis**  
(WVU BIOS 621; 3 credits)

Spring 2013

- Required course for WVU Masters in Public Health – Biostatistics Program and PhD in Epidemiology Program
- Textbook: Stokes ME, Davis CS, Koch GG. (2012). *Categorical Data Analysis using the SAS System* (3rd edition). Cary, NC: SAS Institute Inc.

**Categorical Data Analysis**  
(WVU PUBH 691A; 3 credits)

Spring 2012  
Spring 2011

- Elective course for WVU Masters in Public Health/PhD in Public Health Sciences Degree Programs
- Textbook: Stokes ME, Davis CS, Koch GG. (2000). *Categorical Data Analysis using the SAS System* (2<sup>nd</sup> edition). Cary, NC: SAS Institute Inc.

**Introduction to Biostatistics Certificate Course**  
(UVA Public Health Sciences 7000; 3 credits)

January 2010

- January-Term Course equivalent to the core biostatistics course in the University of Virginia Masters in Clinical Research/ Masters in Public Health Degree Programs
- Textbook: Gerstman, B.B. (2008). *Basic Biostatistics: Statistics for Public Health Practice*

**Practical Use of Statistics in Biomedical Research**  
(UVA Microbiology 838; 2 credits)

Spring 2009

- Co-director of course for graduate students in Microbiology and Biomedical Sciences
- Textbook: Glance, S.A. (2005). *Primer of Biostatistics*, 6<sup>th</sup> Edition

**Introduction to Biostatistics** (UVA Public Health Sciences 700; 3 credits)

Fall 2007

- Core Course in the University of Virginia Masters in Clinical Research/ Masters in Public Health Degree Programs
- Textbook: Daniel, W.W. (2005). *Biostatistics: A Foundation for Analysis in the Health Sciences*, 8<sup>th</sup> Edition



- Introduction to SAS** (UVA Public Health Sciences 717; 1 credit) Fall 2007
- Core Course in the University of Virginia Masters in Clinical Research Degree Program
  - Textbook: Delwiche, L.D. and Slaughter, S.J. (2003). *The Little SAS Book*
- Introduction to Biostatistics** (UVA Public Health Sciences 700; 3 credits) Fall 2006
- Core Course in the University of Virginia Masters in Clinical Research/ Masters in Public Health Degree Programs
  - Textbook: Motulsky, H. (1995). *Intuitive Biostatistics*

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## TEACHING ACTIVITIES (SHORT COURSES)

- Becoming a Student of Leadership in Statistics** February 9, 2019  
American Statistical Association Florida Chapter 2019  
Annual Meeting: Orlando, FL
- 90 minute workshop available to all registered attendees
  - Discussions covering leadership characteristics and how to create a path for leadership development
  - Organized and led the workshop
- Becoming a Student of Leadership in Statistics** February 23, 2017  
American Statistical Association 2017 Conference on  
Statistical Practice (CSP): Jacksonville, FL
- Half-day course available to all registered attendees of CSP
  - Lectures and discussions covering leadership characteristics and how to create a path for leadership development
  - Co-organized and led the course with one other statistician
- Preparing Statisticians for Statistical Leadership:  
How to See the Big Picture and Have More Influence** July 30 – 31, 2016  
2016 Joint Statistical Meetings (JSM): Chicago, Illinois
- Two-day course available to all registered attendees of JSM
  - Series of guest speakers, lectures, discussions, and group exercises covering aspects of leadership important for statisticians in their careers
  - Co-organized and led the course with two other statisticians
- West Virginia Clinical and Translational Science Institute  
(WVCTSI) Biostatistics and Epidemiology Short Course:  
“Stats at Stonewall”** October 13-14, 2014
- Two-day course available to all interested WVCTSI members, held at the Stonewall Resort in Roanoke, WV and offering Continuing Education credits
  - Series of lectures taught by numerous faculty covering a variety of topics (e.g. clinical trials, survival analysis, correlated data analysis, etc.) with active engagement of all participants
  - Developed and organized the short course; taught numerous lectures and facilitated discussions

## UVA Radiation/Oncology Biostatistics Short Course

February - March 2010  
March-April 2009

- Five-day course over 6 weeks for all UVa Radiation/Oncology residents and Hematology/Oncology fellows
- Didactic component consisting of introduction to basic statistical/epidemiologic topics followed by group discussion

**Instructional Course:** *Epidemiology and Biostatistics in Research*  
American Academy for Cerebral Palsy and Developmental Medicine  
(AACPDM) 62<sup>nd</sup> Annual Meeting, Atlanta, GA

September 18, 2008

- Two-hour course with lectures on basic statistical inference and study design principles
- Lectures were followed by a small-group breakout session aimed at designing studies for various research questions in cerebral palsy research
- Co-taught with a faculty epidemiologist and pediatrician

**UVA Pediatric Fellows Statistics Symposium**  
“Statistics and Epidemiology in Clinical Research”

August 6-9, 2007  
July 24-27, 2006

- Four-day short-course on principles of statistical inference and study design for UVa Department of Pediatrics fellows
- Didactic component consisting of introduction to basic statistical/epidemiologic topics followed by group discussion of relevant journal articles with a common theme

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## OTHER TEACHING ACTIVITIES: GUEST LECTURES, CONFERENCES, GRAND ROUNDS, JOURNAL CLUBS, ETC.

32. Invited Lecture: *Pilot Grant Writing*. UF CTSI K College (with Thomas Pearson), University of Florida, Gainesville, FL: January 6, 2021.
31. Invited Lecture: *Research Opportunities in the Department of Health Outcomes and Biomedical Informatics*. University of Florida, Department of Biochemistry and Molecular Biology, Science for Life Research Course (BCH 4905): September 5, 2019.
30. Invited Lecture: *Longitudinal Data Analysis*. University of Florida, Department of Biostatistics, Design and Conduct of Clinical Trials Course (PHC 6022): November 26, 2018.
29. Invited Lecture: *Longitudinal Data Analysis*. University of Florida, Department of Health Outcomes and Biomedical Informatics, Longitudinal Research Design Course (GMS 6829): November 13, 2018.
28. Invited Lecture: *Critically evaluating the research design and statistical methods of a publication*. University of Florida Pediatric Endocrine Care Conference, Gainesville FL: September 20, 2018.

27. Invited Lecture: *Is it feasible? Thinking about sample size*. University of Florida, Department of Health Outcomes and Biomedical Informatics, Introduction to Clinical and Translational Research Course (GMS 7093): July 9, 2018.
26. Invited Lecture: *Longitudinal Data Analysis*. University of Florida, Department of Biostatistics, Design and Conduct of Clinical Trials Course (PHC 6937): November 13, 2017.
25. Invited Lecture: *Longitudinal Data Analysis*. University of Florida, Department of Health Outcomes and Biomedical Informatics, Longitudinal Research Design Course (GMS 6829): November 6, 2017.
24. Invited Lecture: *Is it feasible? Thinking about sample size*. University of Florida, Department of Health Outcomes and Biomedical Informatics, Introduction to Clinical and Translational Research Course (GMS 7093): July 21, 2017.
23. Invited Lecture. *Critically evaluating the research design and statistical methods of a publication*. University of Florida Endocrinology and Diabetes Core Conference, Gainesville FL: August 18, 2016.
22. Invited Lecture: *Longitudinal Data Analysis*. University of Florida, Department of Health Outcomes and Biomedical Informatics, Longitudinal Research Design Course (GMS 6829): November 15, 2016.
21. Invited Lecture: *Longitudinal Data Analysis*. University of Florida, Department of Biostatistics, Design and Conduct of Clinical Trials Course (PHC 6937): November 14, 2016.
20. Invited Lecture: *Biostatistical Approaches for CVD Research*. West Virginia University, School of Medicine, Cardiovascular Translational Sciences Course (BMS 793): July 30, 2013.
19. Invited Lecture: *Describing and Analyzing Data*. West Virginia University, School of Medicine, Public Health course (CCMD 712): September 13, 2012.
18. Invited Lecture: *Statistical Inference*. West Virginia University, School of Medicine, Public Health course (CCMD 712): September 11, 2012.
17. Invited Lecture: *Epidemiology and Statistics*. West Virginia University, Clinical Tropical Medicine and Traveler's Health Course: June 21, 2011.
16. Invited Lecture: *Utilizing Secondary Data in Obesity Research: A Case Study*. West Virginia University Prevention Research Center, Obesity and Metabolic Disease Research Group Meeting: February 22, 2011.
15. Invited Lecture: *Analyzing Correlated Data*. West Virginia University Translational Tobacco Reduction Research Program Meeting: November 11, 2010.

14. Invited Lecture: *Biostatistics and Epidemiology Basics: Study Design and Sources of Bias*. University of Virginia, Department of Physical Medicine and Rehabilitation: July 20, 2009.
13. Invited Lecture: *Biostatistics and Epidemiology Basics: Sampling Variability and Statistical Inference*. University of Virginia, Department of Physical Medicine and Rehabilitation: July 13, 2009.
12. Guest Lecture: *Multiple Linear Regression and Analysis of Covariance*. University of Virginia, Public Health Sciences Course (PHS 751): “Applied Biostatistics”: January 28, 2009.
11. Guest Lecture: *Multiple Regression and Analysis of Covariance*. University of Virginia, Public Health Sciences Course (PHS 751): “Applied Biostatistics”: January 30, 2008.
10. Invited Lecture: *Using Existing Databases in Research*. University of Virginia, Children’s Hospital Resident Research Symposium: May 31, 2007.
9. Guest Lecture: *Multiple Regression and Analysis of Covariance*. University of Virginia, Public Health Sciences Course (PHS 751): “Applied Biostatistics”: February 5, 2007.
8. Invited Presentation: *An Introduction to Meta-Analysis*. University of Virginia, Department of Pediatrics Division of Nephrology Noon Conference: June 1, 2006.
7. Invited Lecture: *An Introduction to Study Design*. University of Virginia, Children’s Hospital Research Symposium: May 18, 2006.
6. Guest Lecture: *Multiple Regression and Analysis of Covariance*. University of Virginia, Health Evaluation Sciences Course (HES 751): “Applied Biostatistics”: February 13, 2006.
5. Invited Lecture: *An Introduction to Study Design*. University of Virginia, Otolaryngology Department Grand Rounds: August 23, 2005.
4. Invited Lecture: *An Introduction to Hypothesis Testing*. University of Virginia, Children’s Hospital Research Symposium: May 26, 2005.
3. Invited Lecture: *An Introduction to Study Design*. University of Virginia, Children’s Hospital Research Symposium: May 26, 2005.
2. Invited Lecture: *Statistics 101: The basics of statistical inference*. Department of Pediatrics, School of Medicine, University of Virginia (Pediatric Residents’ Journal Club): April 4, 2005.
1. Regular participant, monthly Pediatric Residents’ Journal Club. Department of Pediatrics, School of Medicine, University of Virginia: 2004 – 2010.

***Junior Faculty Mentees***

Michelle Cardel, PhD, RD (Asst. Professor, Health Outcomes and Biomedical Informatics) 2015 - Present

- Dr. Cardel obtained a diversity supplement to my NHLBI R01 (2017-2018)
- Dr. Cardel was awarded a K01 from NHLBI in 2018

Steven Smith, PharmD, MPH (Asst. Professor, Pharmacotherapy And Translational Research) 2015 – Present

- Dr. Smith was awarded a K01 from NHLBI in 2018

Ben Lewis, PhD (Asst. Professor, Psychiatry) 2018 – Present

- Dr. Lewis was awarded a K01 from NIAAA in 2018

Georges Khalil, PhD (Asst. Professor, Health Outcomes and

- Dr. Khalil currently has a R00 from NIDA

***Post-Doctoral Researchers***

Abhishek Vishnu, PhD (PhD in Epidemiology, University of Pittsburgh) 2015 – 2016

***PhD Students as Primary Mentor (University of Florida)***

Guanming Chen. Disparities in Health Outcomes Following Metabolic Bariatric Surgery: Evidence from the OneFlorida Clinical Research Consortium. PhD in Health Outcomes and Implementation Science, 2021.

Gina Eubanks (PhD in Health Outcomes and Implementation Science: Expected 2022)

Tianyao Huo (PhD in Health Outcomes and Implementation Science: Expected 2022)

Boya Lin (PhD in Health Outcomes and Implementation Science: Expected 2022)

***PhD Students as Dissertation Committee Member (University of Florida)***

Yun Zhu. Molecular Mechanisms Underlying Depression: A Multi-omics Approach. PhD in Epidemiology, 2018

Alex Lee. Characterizing Subjective Social Status in Adolescents and its Application to Physical Activity and Sedentary Behavior. PhD in Health Outcomes and Implementation Science, 2021.

***PhD Students as Dissertation Committee Member (West Virginia University)***

Courtney Pilkerton. Health resource availability, state policy, and cardiovascular health in U.S. adults. PhD in Epidemiology, 2015.

Ruchi Bhandari. Association of individual and combined metabolic risk factors with cancer. PhD in Epidemiology, 2013.

Rose Pignataro. The role of tobacco cessation counseling in physical therapist practice and education. PhD in Social and Behavioral Health Sciences, 2013.

Laura Kurth. Characterization of atmospheric particulate matter in mountaintop mining and non-mining areas in West Virginia with known health differences. PhD in Epidemiology, 2013.

Molly Matthews-Ewald. An examination of non-exercise activity thermogenesis in rural youth. PhD in Social and Behavioral Health Sciences, 2013.

Sarah Dee Geiger. Exposure to perfluoroalkyl chemicals and its relation to serum lipids, serum uric acid, and blood pressure levels in children. PhD in Public Health Sciences, 2012.

R. Constance Wiener. Epipathogenesis of caries: Analyses of family structure, fear, and fatalism upon World Health Organization decayed, missing, and filled teeth severity in Appalachia West Virginia and Pennsylvania. PhD in Public Health Sciences, 2012.

#### ***Master's Theses Directed (University of Virginia)***

Angela Rose. Causes, consequences, and strategies for prevention of childhood obesity: a literature review. Masters in Public Health (MPH), 2010.

Jennifer Charlton. Evolving urinary biomarkers in premature infants during renal maturation. MS in Clinical Research (CR), 2010.

Christopher Clarke. Assessment of the accuracy and reproducibility of right ventricular volume measurements by cardiac magnetic resonance in patients with congenital heart disease. MS in Clinical Research (CR), 2010.

Adrienne Kilgore. Determining best practice for pediatric postoperative sternal incision care. MS in Clinical Research (CR), 2010.

Anita Kohli. The evolution the AIDS epidemic over 21 years, 1983-2004, in Ceara, Brazil: demographics and clinical characteristics at presentation with AIDS. MS in Clinical Research (CR), 2009.

Shetarra Walker. Prevention of weight gain in obese children enrolled in a short term weight loss intervention. MS in Clinical Research (CR), 2009.

Bryan Sauer. Effect of pancreatic duct stent diameter on hospitalization in painful chronic pancreatitis with evidence of pancreatic duct dilation: a retrospective analysis. MS in Clinical Research (CR), 2008.

Scott Altschuler. Cyclosporine versus Tacrolimus after liver transplant for Hepatitis C: A single center randomized controlled trial and meta-analysis. MS in Health Evaluation Sciences (HES), 2007.

Andreas Kramer. Blood transfusion is associated with adverse outcomes following subarachnoid hemorrhage. MS in Health Evaluation Sciences (HES), 2007.

Bruce Landeck. Three-dimensional echocardiographic comparison of right ventricular and left ventricular stroke volumes in children. MS in Clinical Research (CR), 2007.

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