

CURRICULUM VITAE

Joshua A. Crow, PhD

PERSONAL INFORMATION

Title: NIH-NRSA T32 Postdoctoral Fellow
UF – Pain Research and Intervention Center of Excellence (PRICE)

Address: University of Florida
2004 Mowry Rd.
Clinical and Translational Research Building
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Gainesville, FL 32610

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EDUCATION

2019 University of Florida
Doctor of Philosophy, Applied Physiology and Kinesiology
Concentration: Biobehavioral Science
Advisor: Paul Borsa, PhD

2011 University of Florida
Master of Science, Applied Physiology and Kinesiology
Concentration: Human Performance
Advisor: Mark Tillman, PhD

2006 Arizona State University
Bachelor of Arts, Psychology

RESEARCH INTERESTS

Central nervous system influence on age-related mobility decline. Restoration and preservation of functional independence in older adults. Effect of chronic pain and pain management interventions on physiological response to exercise. Transcranial direct current stimulation. Therapeutic use of cannabinoids in chronic pain and acute exercise-related pain.

PROFESSIONAL EXPERIENCE

Academic Appointments

2020-Present **T32 Postdoctoral Fellow**
Integrative and Multidisciplinary Pain and Aging Research Training (IMPART)
Pain Research and Intervention Center of Excellence, University of Florida

2019-2020 **Postdoctoral Associate**
Center for Cognitive Aging and Memory, University of Florida

2019-Present	<i>Pain Research and Intervention Center of Excellence, University of Florida</i> Honors Faculty <i>UF Honors Program, University of Florida</i>
2017-2019	Adjunct Lecturer <i>Department of Applied Physiology and Kinesiology, University of Florida</i>
2013-2017	Teaching Assistant <i>Department of Applied Physiology and Kinesiology, University of Florida</i>
2014-2015	Study Coordinator Metabolic Costs of Daily Activities in Older Adults <i>Institute on Aging, College of Medicine, University of Florida</i>
2011-2013	Program Operations Manager / Internship Site Coordinator Oak Hammock <i>College of Health and Human Performance, University of Florida</i>
2010-2011	Graduate Assistant <i>Department of Applied Physiology and Kinesiology, University of Florida</i>
2006-2009	Instructor <i>English Department, Bradford High School, Starke, FL</i>

Non-Academic Appointments

2020-Present	Host and Executive Producer– PRICE of Pain Podcast (Science Outreach and Education) <i>Pain Research and Intervention Center of Excellence, University of Florida</i>
2015-Present	Color Sports Analyst <i>Learfield-IMG, Gator Sports Network, SEC Network, ESPN Gainesville</i>

Service

2021-Present	Member <i>Communications Committee – US Association for the Study of Pain</i>
2020-Present	Member <i>Communications Committee – Pain Research and Intervention Center of Excellence, University of Florida</i>
2020-Present	Creator and Host <i>PRICE of Pain, Educational Scientific Podcast, University of Florida</i>
2018-2019	President <i>Volleyball Booster Executive Board</i> <i>University Athletic Association, University of Florida</i>
2014-2016	Department Representative <i>College of Health and Human Performance</i> <i>Graduate Student Council, University of Florida</i>
2014-2016	Department Representative <i>Department of Applied Physiology and Kinesiology</i> <i>Graduate Student Advisory Council, College of Health and Human Performance</i> <i>University of Florida</i>
2016-2017	President <i>Men's Club Volleyball</i> <i>Department of Recreational Sports, University of Florida</i>
2012-2016	Head Coach <i>Women's Club Volleyball</i> <i>Department of Recreational Sports, University of Florida</i>
2011-2013	Head Coach <i>Girls Volleyball</i> <i>Eastside High School, Gainesville, FL</i>

CERTIFICATIONS AND PROFESSIONAL AFFILIATIONS

2020-Present	Member , American Physiological Society
2020-Present	Member , Society of Behavioral Medicine
2020-Present	Member , Gerontological Society of America
2020-Present	Member , US Association for the Study of Pain
2019-Present	Member , International Association for the Study of Pain
2017-Present	Member , American College of Sports Medicine
2011-2019	Member , National Strength & Conditioning Association
2006-2009	Member , Continuous Improvement Model Lead Team <i>Northeast Florida Education Consortium</i>

TEACHING AND MENTORSHIP

Classroom Experience

2019-2020	Lecturer/Mentor, University of Florida <i>Applied Principles of Coaching, Honors Program</i>
2017-2019	Adjunct Lecturer, University of Florida <i>Principles of Strength and Conditioning, Dept. of Applied Physiology and Kinesiology</i>
2016	Graduate Teaching Assistant, University of Florida <i>Sport Psychology, Dept. of Applied Physiology and Kinesiology</i>
2016	Guest Lecturer, University of Florida <i>Graduate Biomechanics of Human Motion, Dept. of Applied Physiology and Kinesiology</i>
2016	Guest Lecturer, University of Florida <i>Biomechanical Basis of Human Movement</i> <i>Dept. of Applied Physiology and Kinesiology</i>
2014-2016	Coordinator/Lead Teaching Assistant, University of Florida <i>Applied Human Anatomy Laboratory, College of Health and Human Performance</i>
2013-2016	Graduate Teaching Assistant, University of Florida <i>Applied Human Anatomy Lab, Dept. of Applied Physiology and Kinesiology</i> <i>Applied Human Physiology Lab, Dept. of Applied Physiology and Kinesiology</i> <i>Fitness Assessment and Exercise Prescription Lab, Dept. of Applied Physiology and Kinesiology</i>
2006-2009	Instructor, Bradford High School (Starke, FL) <i>English</i> <i>English Honors</i> <i>Introduction to Psychology</i> <i>Psychology</i>

Mentorship Experience

2019	Aaron Gordon - Undergraduate Peer Teaching Program <i>Honors Program, University of Florida</i>
2013	Claudia Del Hierro – Undergraduate Practicum <i>Dept. of Applied Physiology and Kinesiology, University of Florida</i>
2013	Melissa Morales – Undergraduate Capstone Internship <i>Dept. of Applied Physiology and Kinesiology, University of Florida</i>
2013	Glenn Sapp – Undergraduate Capstone Internship

- 2012 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Renee Cunkle - Undergraduate Practicum
- 2012 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Carrie Doxey – Undergraduate Capstone Internship
- 2012 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Morgan Keppel – Undergraduate Capstone Internship
- 2012 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Kristen Lo – Undergraduate Capstone Internship
- 2012 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Sandra Lowrey – Undergraduate Capstone Internship
- 2012 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Makenzie Marsh – Undergraduate Capstone Internship
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Bryan Brown – Undergraduate Capstone Internship
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Jennifer Downs – Undergraduate Capstone Internship
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Rayko Garcia - Undergraduate Practicum
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Elliot Hassan - Undergraduate Practicum
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Joseph Matissini – Undergraduate Capstone Internship
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Stephani McNamara - Undergraduate Practicum
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Sara Schobben - Undergraduate Practicum
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Allison Silsbee - Undergraduate Practicum
- 2011 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Christina Vargas - Undergraduate Practicum
- 2010 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Neil Hensley – Undergraduate Capstone Internship
- 2010 *Dept. of Applied Physiology and Kinesiology, University of Florida*
Elworthy Williams – Undergraduate Capstone Internship

AWARDS AND HONORS

- 2021 Pain Research Forum Correspondent's Program
International Association for the Study of Pain
- 2016 Graduate Student Teaching Award (Finalist)
University of Florida
- 2005-2006 Dean's List
College of Liberal Arts and Sciences, Arizona State University

REQUISITE SKILLS AND METHODOLOGIES

Programming

- REDCap
- Freesurfer
- R

Technological/Methodological Proficiencies

- Calorimetry, Pulmonary, and Cardiac Assessment: Parvo TrueOne, Cosmed K4B2 (portable)
- Gait Analysis: GAITRite, Gait Mat
- Isokinetic Dynamometry: Biodex, Kin-Com
- Phototherapy: LiteCure LCT-1000
- Quantitative Sensory Testing: Pathway, Medoc

FUNDING HISTORY

T32 AG049673

PI: Roger B Fillingim

Total Award:

Funding Agency: NIH, Ruth Kirschstein National Research Service Award (NRSA)

Title: *Integrative and Multidisciplinary Pain and Aging Research (IMPART)*

Funding Period: 10/15/2020 – Current

Role: Postdoctoral Trainee

n/a

PI: Paul Borsa

Total Award: \$27,645.15

Funding Agency: Alleviating Pain, Suffering and Addiction (UF-CRISP Moonshot Pilot Award)

Title: *Efficacy of a controlled short-term trial of Cannabidiol (CBD) ingestion on reducing symptomatic response and facilitating recovery after induced muscle injury*

Funding Period: 8/01/2020 – 12/31/2020

Role: Co-Investigator

n/a

PI: Paul Borsa

Total Award: \$59,057.00

Funding Agency: Consortium for Medical Marijuana Clinical Outcomes Research

Title: *Efficacy of a controlled short-term trial of Cannabidiol (CBD) ingestion on reducing symptomatic response and facilitating recovery after induced muscle injury*

Funding Period: 12/01/2019 – 12/31/2020

Role: Co-Investigator

n/a

PI: n/a

Total Award: \$15,000

Funding Agency: The University of Florida Graduate School

Title: *University of Florida Graduate School Doctoral Dissertation Award*

Funding Period: 1/1/2019-8/15/2019

Role: Student Recipient

n/a

PI: Paul Borsa

Total Award: \$33,086.37

Funding Agency: Revaluesio Corporation

Title: *Daily consumption of an electrokinetically modified water beverage and its effects on physical fitness and well-being for an older adult population*

Funding Period: 9/1/2014 – 8/31/2015

Role: Graduate Student Research Assistant

n/a

PI: n/a Total Award: \$16,000 per annum
Funding Agency: University of Florida, College of Health and Human Performance
Title: *Dept. of Applied Physiology and Kinesiology, Graduate Teaching Assistantship*
Funding Period: 8/01/2013 – 12/31/2018
Role: Student Recipient

n/a

PI: n/a Total Award: \$7,500
Funding Agency: University of Florida, College of Health and Human Performance
Title: *Dr. Charles W. LaPradd Endowed Ph.D. Fellowship*
Funding Period: 8/01/2013
Role: Student Recipient

n/a

PI: n/a Total Award: \$14,500 per annum
Funding Agency: University of Florida, College of Health and Human Performance
Title: *Dept. of Applied Physiology and Kinesiology, Graduate Assistantship*
Funding Period: 8/01/2009 – 5/1/2011
Role: Student Recipient

RESEARCH AND PUBLICATIONS

1. Hedderson, W.C., Dover, G.C., George, S.Z., **Crow, J.A.** (2018). Borsa, P.A. Expectancy Reduces Symptoms but not Functional Impairment Following Exercise-induced Musculoskeletal Injury, *Clinical Journal of Pain* (2018) 34(1), 1-7.
2. Borsa, P.A., **Crow, J.A.** (2016). Daily consumption of an electrokinetically modified water beverage and its effects on physical fitness and well-being for an older adult population. *Revalerio Corporation Industry Report*
3. Borsa, P.A., **Crow, J.A.** (2019). Effects of orally-administered TRP activators on symptomatic response and functional recovery after high intensity resistance exercise. *Flex Pharma, Inc. Industry Report*
4. Borsa PA, Levine D, Dale RB, **Crow JA**. Muscular preconditioning using phototherapy improves the physical work capacity of the quadriceps when applied between repeated bouts of strenuous exercise, *J Athl Enhanc* 7:6, 2019. DOI:10.4172/2324-9080.1000310
5. Borsa PA, Levine D, Dale RB, **Crow JA**. Preconditioning of the shoulder external rotators with phototherapy before strenuous exercise attenuates muscle fatigue. *J Sport Rehabil* 2019.
6. **Crow JA**, Hass CJ, Bishop MD, Beatty GF, Borsa PA. (In preparation). Effects of orally-administered TRP activators on symptomatic response and functional recovery after high intensity resistance exercise.
7. **Crow JA**, Joseph V, Fillingim RB, Booker SQ. (In preparation). Domains of Movement Evoked Pain in Clinical Populations. *(In Preparation)*
8. **Crow JA**, Kraft JN, Albizu A, O'Shea A, Woods AJ. (In preparation). Neural Correlates of Chronic Pain in Healthy Older Adults.

Involvement without Authorship

1. Corbett, D.B., Wanigatunga A.A., Valiani V., Handberg E.M., Buford, T.W., Brumback, B., Casanova, R., Janelle, C.M., Manini, T.M. Metabolic costs of daily activity in older adults. (As interim study coordinator: advanced conceptualization and refined study methodology throughout transition from pilot to initial data collection, collected and analyzed initial data)
2. Gamble, K.M., Joyner, J., Coombes, S.A., Hass, C.J., Janelle, C.M. Emotional state affects the initiation of forward gait (Collected and processed data)