

Jacob A. Goldsmith

CURRICULUM VITA

*Department of Nutrition, Food & Exercise Science
Florida State University
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EDUCATION

- Ph.D.** Florida State University, Tallahassee, FL. Present.
Major: Exercise Physiology
- M.S.** Florida Atlantic University, Boca Raton, FL. August 2016.
Major: Exercise Physiology
- B.S.** Missouri University of Science & Technology, Rolla, MO. May 2013.
Summa Cum Laude
Major: Psychology
Minor: Biology

PROFESSIONAL EXPERIENCE

Graduate Research Assistant, Department of Nutrition, Food & Exercise Science, Florida State University, Tallahassee, FL. August 2016 - Present

Graduate Research/Teaching Assistant, Department of Exercise Science and Health Promotion, Florida Atlantic University, Boca Raton FL. January 2015 – August 2016

Undergraduate Research Assistant, Department of Psychological Science, Missouri University of Science and Technology, Rolla MO. August 2010 - May 2013

TECHNICAL SKILLS

- Laboratory Techniques
 - Rat dissection
 - Western blotting, qPCR, RT-PCR
 - Cell culture
 - Arterial cannulation and pressurization (Pressure myography)
 - Blood collection, processing, and analysis
 - PBMC Separation
 - RNA Extraction

- Human Performance Assessment
 - One-repetition maximum (1RM) Strength Assessment
 - VO₂max testing, velocity assessment, lactate threshold testing
 - Body Composition Assessment (e.g. skinfolds, ultrasound)

RESEARCH INTERESTS

- Molecular mechanisms underlying arterial contractility and myogenic tone
 - Vascular smooth muscle cell (VSMC) contribution to arterial contractility
 - Stretch- and pressure-activated ion channels (TRP)
 - Rapid, non-genomic action of sex steroids (Estradiol, progesterone)
 - Membrane-bound sex steroid receptors and associated signaling cascades
 - Potential therapeutic targets in Traumatic brain injury (TBI)
 - Exercise as therapy in vascular diseases

COURSES TAUGHT

- PET4550 Exercise Testing Laboratory (FAU)
- PEP4138 Advanced Methods of Strength and Conditioning Guest Lecture (FAU)

PUBLICATIONS

1. Evanson, Kirk; **Goldsmith, Jacob**; Ghosh, Payal; Bakalar, Jamie; Teich, Jake; Delp, Michael. The G protein-coupled receptor 30 (GPR30) agonist, G-1, attenuates BK channel activation in cerebral arterial smooth muscle cells. Submitted to British Journal of Pharmacology.
2. Zourdos, M.C., Dolan, C., Quiles, J.M., Klemp, A., **Goldsmith, J.A.**, Jo, E., Helms, E., Buckner, S.L., Carzoli, T., Duncan, S. Predictive capability of velocity and rating of perceived exertion on successful attempts during powerlifting competition. *[Manuscript in Preparation]*
3. Haischer, M. H., **Goldsmith, J. A.**, Cooke, D. M., Byrnes, R. K., Perlmutter, J. H., Velazquez, J. C. & Zourdos, M. C. (2017). Training and Chronological Age Effect Repetitions in Reserve-based Rating of Perceived Exertion Accuracy: 3647 Board# 94 June 3 8. *Medicine & Science in Sports & Exercise*, 49(5S), 1042.
4. Diaz, N. A., Coccia, C., Dolan, C., **Goldsmith, J. A.**, & Zourdos, M. C. (2016). Ad Libitum Dietary Intake Habits of Resistance Trained Males: A Comparison to Established Dietary Recommendations. *Journal of the Academy of Nutrition and Dietetics*, 116(9), A10.
5. Henslee, A. M., **Goldsmith, J.**, Stone, N. J., & Krueger, M. (2015). An online tutorial vs. pre-recorded lecture for reducing incidents of plagiarism. *American Journal of Engineering Education (AJEE)*, 6(1), 27-32.
6. Bergstrom, H. C, Housh, T. J, Cochrane, K. C, Jenkins, N.D.M., Buckner, S. L., **Goldsmith, J. A.**, Zuniga, J. M., Schmidt, R. J., Johnson, G. O., Cramer, J. T. (2015). Application of the critical heart rate model to treadmill running. *Journal of Strength and Conditioning Research (JSCR)*, 29(8), 2237-2248.
7. Jenkins, N.D.M., Buckner, S. L., Cochrane, K. C., Bergstrom, H. C., **Goldsmith, J. A.**, Weir, J. P., Housh, T. J., Cramer, J. T. (2014). Effects of CLA supplementation and aerobic exercise on peak oxygen uptake and cardiorespiratory fatigue thresholds. *Lipids*, 49(9), 871-880.

- Jenkins, N.D.M., Buckner, S. L., **Goldsmith, J. A.**, Bergstrom, H. C., Cochrane, K. C., Housh, T. J., Johnson, G. O., Schmidt, R. J., Cramer, J. T. (2014). Reliability and relationships among handgrip strength, leg extensor strength, and balance in older men. *Experimental Gerontology*, 58, 47-50.

ABSTRACTS

National Abstract Presentations

- Ghosh, P., Cullen, A.E., Park, H., **Goldsmith, J.**, Maraj, J.J., Evanson, K., Zawieja, D.C., Behnke, and B.J., Delp, M.D. Jugular veins demonstrate enhanced constriction following spaceflight in mice. [Presented at NASA Investigators Workshop, Galveston, TX.] 2018.
- Diaz, N.A., Coccia, C., Dolan, C., **Goldsmith, J.A.**, and Zourdos, M.C. Ad Libitum Dietary Intake Habits of Resistance Trained Males: A Comparison to Established Dietary Recommendations. Accepted. Food and Nutrition Conference and Expo. Boston, MA. 2016.
- Goldsmith, J. A.**, Quiles, J.M., Blanco, R., Klemp, A., Dolan, C., Huang, C-J., Whitehurst, M. FACSM, and Zourdos, M. C. Progressive resistance exercise elicits significant brain-derived neurotrophic factor expression. [Submitted to American College of Sports Medicine Annual Meeting, Boston, MA.] 2015.
- Mendez, K.M., Dolan, C., Quiles, J.M. Blanco, R., **Goldsmith, J.A.**, Perlmutter, J.H., Zoeller, R.F., Whitehurst, M., and Zourdos, M.C. Impact of various concurrent training interventions on 1RM bench. [Submitted to American College of Sports Medicine Annual Meeting, Boston, MA.] 2015.
- Perlmutter, J.H., Mendez, K.M., Dolan, C., Quiles, J.M. Blanco, R., **Goldsmith, J.A.**, Zoeller, R.F., Whitehurst, M., and Zourdos, M.C. Impact of various concurrent training interventions on 1RM squat. [Submitted to American College of Sports Medicine Annual Meeting, Boston, MA.] 2015.
- Zourdos, M. C., Dolan, C., Quiles, J.M., Klemp, A., Blanco, R., Krahwinkel, A. J., **Goldsmith, J. A.**, Loenneke, J.P., and Whitehurst, M. FACSM. Efficacy of daily 1RM squat training in well-trained lifters: Three case studies. [Presented at American College of Sports Medicine Annual Meeting, San Diego, CA.] 2015.

Regional Abstract Presentations

- Goldsmith, J.A.**, Mendez, K.M., Dolan, C., Quiles, J.M. Blanco, R., Perlmutter, J.H., Zoeller, R.F., Whitehurst, M., and Zourdos, M.C. Impact of various concurrent training interventions on 1RM squat. [Submitted to Southeast American College of Sports Medicine Annual Meeting, Greenville, SC.] 2015.
- Mendez, K.M., Dolan, C., Quiles, J.M. Blanco, R., **Goldsmith, J.A.**, Perlmutter, J.H., Zoeller, R.F., Whitehurst, M., and Zourdos, M.C. Impact of various concurrent training interventions on 1RM bench. [Submitted to Southeast American College of Sports Medicine Annual Meeting, Greenville, SC.] 2015.
- Henslee, A. M., **Goldsmith, J.**, Stone, N. J., & Krueger, M. (2013). An online tutorial vs. pre-recorded lecture for reducing incidents of plagiarism. [Poster presented to

the Missouri State Congressmen Jefferson City, MO, and the Office of Undergraduate Research Experience Conference at Missouri University of Science and Technology, Rolla MO]

AWARDS AND SCHOLARSHIPS

Outstanding Graduate Student in Exercise Science and Health Promotion, Florida Atlantic University (FAU) (2015-2016)

Academic Scholars List, Missouri University of Science & Technology (MS&T) (2009-2013)

Departmental of Psychological Science Scholarship, Missouri University of Science & Technology (MS&T) (2010-2013)

G. Susanne Olson Undergraduate Research Award, Missouri University of Science & Technology (MS&T) (2013)

Outstanding Senior Award, Missouri University of Science & Technology (MS&T), Psychology Department (2013)

Undergraduate Research Conference 3rd Place Poster Presentation, Missouri Science & Technology (MS&T) (2013)