

Joshua Tyler Smith

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EDUCATION

- 2021 (exp) Ph.D. in Mathematics
University of Florida
- 2013 Master of Public Health
University of Kentucky
Department Honors in Biostatistics
Graduate Certificate in Applied Statistics
- 2011 B.S. in Psychology
University of Kentucky
Magna Cum Laude
- 2010 B.S. in Biology
University of Kentucky
Departmental Honors, Cum Laude

EXPERIENCE

- 2013-2016 Research Analyst
Department of Anatomy and Neurobiology
University of Kentucky College of Medicine
Supervisors: Marilyn Duncan, PhD; Karyn Esser, PhD
- 2011-2013 Research Assistant
Applied Statistics Lab
University of Kentucky
Advisor: Heather Bush, PhD
- 2010-2011 Research Assistant
Department of Anatomy and Neurobiology
University of Kentucky College of Medicine
Advisor: Marilyn Duncan, PhD
- 2009-2010 Undergraduate Research Assistant
Department of Behavioral Sciences
University of Kentucky College of Medicine
Advisor: Yang Jiang, PhD

PUBLICATIONS

- Clasey J, Deann A, Couch A, Day J, Thomas JM, McQuerry K, **Smith J**, Jennewein T, Esser K.
Health status and physical activity of rural Appalachian children. *Obesity*. In review.

Duncan MJ, **Smith JT**, Franklin KM. Time of day but not aging regulates 5HT7 receptor binding sites in the hamster hippocampus. *Neuroscience Letters*. In review.

Duncan MJ, **Smith JT**, Narbaiza J, Muezz F, Bustle LB, Qureshi S, Fieseler C, Legan SJ. Restricting feeding to the active phase in middle-aged mice attenuates adverse metabolic effects of a high-fat diet. *Physiology & Behavior*, 167:1-9. December 2016.

Duncan MJ, Prochot JR, Cook DH, **Smith JT**, Franklin KM. Influence of aging on Bmal1 and Per2 expression in extra-SCN oscillators in hamster brain. *Brain Research*, 1491:44-53. January 2013.

Duncan MJ, **Smith JT**, Franklin KM, Beckett TL, Murphy MP, St. Clair D, Donohue KD, Striz M, O'Hara BF. Effects of aging and genotype on circadian rhythms, sleep, and clock gene expression in APPxPS1 knock-in mice, a model for Alzheimer's disease. *Experimental Neurology*. 236(2):249-258. August 2012.

POSTERS AND ABSTRACTS

Duncan MJ, Narbaiza J, Muezz F, Bustle LB, **Smith JT**, Qureshi S, Fieseler C, Legan SJ. Time-restricted feeding of a high-fat diet attenuates its deleterious effects in middle-aged mice. 2015 Rhythms In the Southeast Region Conference. Lexington, KY. May 2015.

Duncan MJ, Franklin KM, **Smith JT**. Aging differentially affects clock gene expression rhythms in the hamster adrenal gland. 2014 Meeting of the Society for Research on Biological Rhythms. Big Sky, MT. June 2014.

Effgen S, McCoy SW, Jeffries L, Chiarello L, Bush H, **Smith J**. Reliability of the School-Physical Therapy Interventions for Pediatrics Data System. APTA Combined Sections Meeting 2014. Las Vegas, NV. February 2014.

Cook DH, Franklin KM, **Smith JT**, Prochot JR, Duncan MJ. Effect of aging on the *Bmal1* gene expression in the hamster brain. 2013 Spring Neuroscience Day. Lexington KY. April 2013.

Reeves B, Brown J, Ickes M, **Smith JT**. Stress and coping behaviors among undergraduate and graduate students. 8th Annual CCTS Conference. Lexington, KY. April 2013.

Rose SA, Zephyr D, **Smith JT**, Masero C, Real K, Webber KH. Motivation, self-efficacy, and perceived autonomy support in patients enrolled in a clinic-based behavioral weight loss program. Society of General Internal Medicine 36th Annual Meeting. Denver, CO. April 2013.

Duncan MJ, **Smith JT**, Franklin KM. Investigation of the effects of time of day and aging on 5-HT₇ receptor binding in the hippocampus. Annual meeting of the Serotonin Club. Montpellier, France. July 2012.

Duncan MJ, Cook DH, Prochot J, **Smith JT**, Franklin KM. Aging attenuates *Bmal1* expression in the hamster hippocampus, cortex, and SCN but not skeletal muscle. 13th Meeting of the Society for Research on Biological Rhythms. Destin, FL. May 2012.

Wallis N, Garnett C, Bailey B, **Smith JT**, Bennett K. Addressing a neglected healthcare disparity – assessing and improving lesbian, gay, bisexual, and transgender-related medical curricula. Southern Group on Educational Affairs. Lexington KY. April 2012.

Smith JT, Franklin KM, Ighodaro ET, St. Clair D, Duncan MJ. Circadian rhythms and clock gene expression in an APPxPS1 knock-in mouse model for Alzheimer's disease. Markesbery Symposium on Aging and Dementia. Lexington KY. October 2011.

Black C, Jiang Y, Kiser S, Kluemper C, Collins H, **Smith JT**, Kelly TH. Neurobiological correlates of affective processing are modulated by impulsive and reward seeking personality. 2010 Spring Neuroscience Day. Lexington KY. April 2010.

WORKSHOPS AND PRESENTATIONS LED

Introduction to Circular Statistics (July 2013)

Journal club presentation generated for the circadian research group at the University of Kentucky covering basic circular statistics, including a brief overview of the crossover problem, calculation of circular means, and cosinor regression. Lexington KY.

Experimental Design for RPLP Students (February 2013)

One day course and consulting workshop for Rural Physician Leadership Program students affiliated with the University of Kentucky College of Medicine entering research projects as part of their requirements. Morehead KY.

Introductory Seminar for SPSS. (May 2012) (With Shelley Wu, MPH, and Heather Bush, PhD)

Two day course developed for introductory users to SPSS in the Kentucky cabinet of health and family services, covering topics from data management to regression. Developed course materials as well as lectured on regression models in SPSS. Frankfort KY.

PROGRAMMING/STATISTICAL SOFTWARE

Proficient: R, SAS

Familiar with: SAS Macros, STATA, JMP, SPSS, C++, Python, SQL, Matlab

PROFESSIONAL SOCIETIES

American Public Health Association

American Statistical Association

Society for Neuroscience

Society for Research on Biological Rhythms