Theodore P. Imhoff-Smith

PhD Student, Neuroscience Training Program
NeuroImaging Research Program
School of Medicine and Public Health
University of Wisconsin-Madison

timhoffsmith [at] wisc [dot] edu
http://timhoffsmith.github.io

EDUCATION

University of Wisconsin-Madison　　　　　　　　　　　　　　　　　August 2011
    Bachelor of Arts in Psychology and Computer Science Certificate

University of Illinois at Urbana-Champaign
    Master of Computer Science (emphasis in machine learning and statistics)　　　Expected 2023

University of Wisconsin-Madison
    Doctor of Philosophy in Neuroscience　　　　　　　　　　　　　　Expected 2025
        Advisor: Vivek Prabhakaran, MD, PhD

PUBLICATIONS

Kral, T.R.A., Lapate, R., **Imhoff-Smith, T.P**, Patsenko, E., Grupe, D.W., Goldman, R.I., Rosenkranz, M.A., & Davidson, R.J. (2022). Long-term meditation training is associated with enhanced subjective attention and stronger posterior cingulate-restrolateral prefrontal cortex resting connectivity. *Journal of Cognitive Neuroscience*. doi: https://doi.org/10.1162/jocn_a_01881

Goldberg, S., **Imhoff-Smith, T.P.**, Bolt, D.M., Wilson-Mendenhall, C.D., Dahl, C.J., Davidson, R.J., and Rosenkranz, M.A. (2020), Awareness, Connection, and Insight: Testing a multi-component, self-guided, smartphone-based meditation app in a three-armed randomized controlled trial. *Journal of Medical Internet Research Mental Health*. doi: https://doi.org/10.2196/23825

Grupe, D.W., **Imhoff-Smith, T.P.**, Wielgosz, J., Nitschke, J.B., & Davidson, R.J (2019). A common neural substrate for elevated PTSD symptoms and reduced pulse rate variability in combat-exposed veterans. *Psychophysiology*. doi: http://doi.org/10.1101/364455

Kral, T.R.A., **Imhoff-Smith, T.P.**, Dean III, D.C., Grupe, D.W., Adluru, N., Patsenko, E.G., Mumford, J.A., Goldman, R.I., Rosenkranz, M.A., Davidson, R.J. (2019). Mindfulness-Based Stress Reduction-related changes in posterior cingulate resting brain connectivity. *Social Cognitive and Affective Neuroscience*. doi: https://doi.org/10.1093/scan/nsz050

PUBLICATIONS (UNDER REVIEW OR IN PREP)

Imhoff-Smith, T.P, …, Busse, W., & Rosenkranz, M.A. (in prep). Inflammatory provocation is associated with stress and mood-related changes in salience network resting connectivity.

Imhoff-Smith, T.P, …, & Grupe, D.W. (in prep). Improvements in subjective but not objective sleep measures are associated with reduced PTSD symptoms following mindfulness training in first responders.

CONFERENCE PRESENTATIONS

Kral, T.R.A., **Imhoff-Smith, T.P**, Lapate, R., Patsenko, E., Grupe, D.W., Goldman, R.I., Rosenkranz, M.A., & Davidson, R.J. (2020, November). Long-term meditation training is associated with stronger posterior cingulate — lateral prefrontal cortex resting connectivity and enhanced attention. Poster presented at the annual meeting of the Mind & Life Institute Contemplative Research Conference, Online.

Imhoff-Smith, T.P, Kral, T.R.A., Grupe, D.W., & Davidson, R.J. (2018, May). MBSR increases PCC-DLPFC resting state functional connectivity relative to active control. Poster presented at the 11th annual meeting of the Social Affective Neuroscience Society, Brooklyn, NY.

Kral, T.R.A., **Imhoff-Smith, T.P**, Grupe, D.W., & Davidson, R.J. (2018, May). Reduced anxiety and amygdala-sgACC resting state functional connectivity following MBSR. Poster presented at the 11th annual meeting of the Social Affective Neuroscience Society, Brooklyn, NY.

Grupe, D.W., Wielgosz, J., **Imhoff-Smith, T.P.**, Nitschke, J.N., & Davidson, R.J. (2017, May). Respiratory sinus arrhythmia and ventromedial prefrontal function in veterans with posttraumatic stress symptoms. Oral presentation at the 72nd annual convention of the Society of Biological Psychiatry, San Diego, CA.

Imhoff-Smith, T.P, Grupe, D.W., & Davidson, R.J. (2017, March). Parasympathetic tone, PTSD symptom profiles, and phasic heart rate during threat anticipation. Poster presented at the 10th annual meeting of the Social Affective Neuroscience Society, Los Angeles, CA.

Imhoff-Smith, T.P, & Rozek, C.S. (2015, May). The role of emotion regulation in student achievement. Poster presented at the 87th annual meeting of the Midwestern Psychological Association, Chicago, Il.

RESEARCH AND PROFESSIONAL EXPERIENCE

Department of Radiology, University of Wisconsin - Madison   September 2021 - Present
Graduate Research Assistant

Center for Healthy Minds, University of Wisconsin - Madison   June 2015 - August 2021
Researcher, Data Engineer
   Studied affect, stress, sleep, and inflammation in the context of trauma and asthma. Conducted resting state connectivity, task fMRI, heart rate variability, respiration, and skin conductance analysis. Processed and analyzed heart rate and sleep measures from event-related Fitbit field data. Developed psychophysiology data pipelines in bash, Python, and Matlab. Cleaned and preprocessed MRI, psychophysiology, behavioral, EMA, and self report data.
Study Coordinator
   Implemented and supervised day-to-day procedures, screening, data collection, and data quality for an NIH-funded P01 grant. Co-managed training for a team of nine full time core staff and 20+ undergraduate assistants. Assisted the Research Program Manager with regulatory and budgetary tasks.
Data Collector
   Collected lab-based neuroimaging, psychophysiological, biological, behavioral, and self-report measures. Managed remote data collection for app-based intervention and Amazon Mechanical Turk studies.

Epic, Madison, WI   June 2012 - June 2015

Pod Lead, Quality Assurance Specialist

   Managed and improved quality and process for a team of 17 on the EpicCare Inpatient (Medication Administration Record) application. Coordinated investigations for patient safety escalation across six clinical applications. Conducted usability research and designed usability curriculum for new employees. Led and coordinated cross-team testing of new development.

Department of Psychology, University of Wisconsin - Madison   January 2009 - December 2010

Undergraduate Researcher

   Recruited, collected data, coded and entered self-report data for the Harackiewicz lab. Mentored and trained student peers. Analyzed social and individual differences in affective response to interpersonal threat.

FELLOWSHIPS, HONORS, AND AWARDS

Honorable Mention - National Science Foundation Graduate Research Fellowship   March 2020
Nominated to Sigma Xi, scientific research honor society   June 2020
Nominated to Tau Beta Pi, engineering honor society   August 2020

TECHNICAL SKILLS AND EXPERIENCE

Programming:	Python, R, Bash, MATLAB, Java, JavaScript, C++, HTML, CSS
Statistical Software:	RStudio, MATLAB, SPSS
Image Processing:	FSL, AFNI, FreeSurfer, ANTs
Psychophysiology:	BIOPAC, CMetX, Ledalab, Fitbit API
Data Management:	REDCap, Qualtrics, COINS

PROFESSIONAL AND NON-PROFIT AFFILIATIONS

Social and Affective Neuroscience Society   May 2015 - Present
Intentional Mentoring Madison (Board and Leadership Team)   January 2019 - Present