Theodore P. Imhoff-Smith

Associate Research Specialist
Center for Healthy Minds
University of Wisconsin-Madison

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

Education

University of Wisconsin - Madison — *August 2011*
Bachelor of Arts
Major: Psychology
Certificate: Computer Science
Independent Research Project — September 2009 - December 2009

- Effects of social and individual differences on affective response to interpersonal threat
- Designed, collected and analyzed data, and produced manuscript as part of coursework on experimental design and analysis

University of Wisconsin - Milwaukee (Continuing Education)
Cognitive Neuroscience — *Spring 2015*
Cellular and Molecular Neuroscience — *Fall 2014*

Peer-reviewed publications

Grupe, D.W., **Imhoff-Smith, T.P.**, Wielgosz, J., Nitschke, J.B., M.A., & Davidson, R.J. (in press). A common neural substrate for elevated PTSD symptoms and reduced pulse rate variability in combat-exposed veterans. *Psychophysiology*.

Manuscripts under review or in prep

Kral, T.R.A., **Imhoff-Smith, T.P.**, Dean, D.C., Grupe, D.W., Adluru, N., Patsenko, E.G., Mumford, J.A. (under review), Reduction-related changes in posterior cingulate resting brain connectivity. *Social Cognitive and Affective Neuroscience*.

Imhoff-Smith, T.P., Grupe, D.W., & Davidson, R.J. (in prep). Cardiac response to threat and safety: Balance, flexibility, and state dysregulation of the autonomic nervous system in posttraumatic stress.

Conference presentations

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

Center for Healthy Minds, University of Wisconsin - Madison *June 2015 - Present*

Research Specialist *(January 2019 - Present)*

Oversee psychophysiology and MRI data processing pipelines for the Wisconsin Center for the Neuroscience and Psychophysiology of Meditation (P01AT004952). Develop and manage bash, Python, and R script libraries. Wrangle, clean, and preprocess data for group analysis. Conduct multimodal analysis using resting state fMRI, heart rate, respiration, and skin conductance data.

Associate Research Specialist *(June 2015 - December 2018)*

Implement and manage day-to-day procedures, screening, data collection, and data quality for the Wisconsin Center for the Neuroscience and Psychophysiology of Meditation (P01AT004952). Co-manage training and development for team of nine full time core staff and 20+ undergraduate assistants. Assist research program manager with regulatory and budgetary tasks as needed. Processing and analysis of psychophysiological data.

Epic, Madison, WI *June 2012 - June 2015*

Quality Assurance Specialist and Pod Lead for the Medication Administration Record

Managed and improved quality and process for a team of 17. Coordinated investigations for patient safety escalation across six clinical applications, designed usability curriculum for new employees, led and coordinated cross-team testing and usability research on multiple development projects.

Harackiewicz Lab, University of Wisconsin - Madison *January 2009 - December 2010*

Research Assistant

Recruited, collected data, coded and entered self-report data as well as trained other students.

Distinctive skills

Software Experience

BIOPAC, FSL, COINS, RStudio, SPSS, MATLAB, Word, PowerPoint, Excel, Google Drive

Data Processing Experience

Conducted heart rate variability analysis (using CMetX and Python)
Developed pipeline and conducted EDA processing (using bash, MATLAB, Python, and Ledalab)
Co-developed processing pipeline for resting state fMRI (using bash and FSL)
Familiarity with structural MRI processing (using FreeSurfer)

Programming Experience

Java, C++, Python, R, MATLAB, M, Bash, HTML, CSS

Professional affiliations

American Psychological Association, Division 12 *October 2013 - Present*
Social and Affective Neuroscience Society *May 2015 - Present*

Human services volunteer

Grand Avenue Club, Milwaukee, WI — *December 2011 - May 2012*
Interfaith Senior Programs, Waukesha, WI — *December 2011 - March 2012*