Victor Pokorny

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Degree-Earning Education:

University of Wyoming

Bachelor of Music Education   2011-2015

University of Minnesota

Masters in Clinical Science (with Quantitative Emphasis)   2020-2022

Quantitative Research Experience

Graduate Student and Research Assistant   April 2017 - Present

Primary Supervisor: Scott Sponheim PhD, Minneapolis VA Medical Center

- Cleaning and analyzing large real world datasets including self-report, neuroimaging and behavioral data.
- Creating publication quality data visualizations and distilling complex findings into meaningful narratives in both written and verbal communications
- Extensive use of R, Python, Matlab and SQL
- Implementing cutting edge statistical techniques including supervised and unsupervised machine learning algorithms (e.g. support vector machines and deep neural networks), and data reduction techniques including principal components and factor analysis
- Collaborating with experts across a diverse array of fields to produce novel analytic insights

Technical Skills

- Big data cleaning and analysis
- Regression, machine learning and data reduction techniques
- Fluent in R, Python, Matlab and SQL
- Creating custom scripts and packages facilitate analytic team goals

Relevant Quantitative Coursework

- PSY 8960 - Multivariate Statistics
- PSY 8882 - Philosophy of Quantitative and Qualitative Measurement
- PSY 8814 - Quantitative Analysis of Psychological Data in R I & II
- PSY 5862 - Human Measurement: Theory and Methods
- PSY 3801 - Introduction to Data Analysis

- PSY 3001 - Introduction to Research Methods

Awards

- National Science Foundation: Graduate Research Fellow
- UC-Davis/SDSU ERP Bootcamp 2021 Scholarship Recipient
- Machine Learning for Causal Discovery Workshop Fellow 2021
- Recipient of the College of Liberal Arts Brain Imaging Grant for a total of $20,000

Publications

Pokorny, V. J., Schallmo, M-P., Sponheim, S. R., & Olman, C. (2022). Reduced contrast surround suppression associated with schizophrenia depends on visual acuity and scene context. Preprint at *medRxiv*

Pokorny, V. J., & Sponheim, S. R. (2021). Neural Indicator of Altered Mismatch Detection Predicts Atypical Cognitive-Perceptual Experiences in Psychotic Psychopathology. *Schizophrenia Bulletin*.

Pokorny, V., Espensen-Sturges, T., Burton, P., Sponheim, S., & Olman, C. (2020). Aberrant Cortical Connectivity during Ambiguous Object Recognition is Associated with Schizophrenia. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.

Pokorny, V., Lano, T., Schallmo, M-P., Olman, C., & Sponheim, S. (2019). Reduced influence of perceptual context in schizophrenia: Behavioral and neurophysiological evidence. *Psychological Medicine.*

Marquardt, C., Pokorny, V., Kang, S., Cuthbert, B., & Sponheim, S. Posttraumatic Stress Symptom Dimensions and Brain Responses to Startling Auditory Stimuli in Combat Veterans. *Journal of Abnormal Psychology.*

Marquardt, C., Pokorny, V., Disner, S., Nelson, N., McGuire, K., & Sponheim, S. Inefficient Attentional Control Explains Verbal Memory Deficits Among Military Veterans with Posttraumatic Reexperiencing Symptoms. *Clinical Psychological Science.*

Longenecker, L., Pokorny, V., Olman, C., & Sponheim, S. Self-reported perceptual aberrations in psychosis map to event-related potentials and semantic appraisals of objects. *Journal of Abnormal Psychology.*

Publications In Press

Pokorny, V., Rawls, E., & Sponheim, S. Impact of Reduced-Dimensionality Independent Components Analysis on Event-Related Potential Measurements. *Psychophysiology.*

Publications In Preparation (shared upon request)

Pokorny, V., Alexander, J., & Waller, N. Indeterminacy and Instability of Factor Score Estimates in Common Personality Measures.

Presentations

Pokorny, V., & Sponheim, S. (2021, April). *Neural Indicators of Altered Auditory Novelty Detection Predict Atypical Cognitive-Perceptual Experiences in Psychotic Psychopathology.* UMN Research Day, Minneapolis, MN.

Pokorny, V., Espensen-Sturges, T., Burton, P., Sponheim, S., & Olman, C. (2020, April). *Evidence of Aberrant Cortical Activation during Ambiguous Object Recognition in Psychosis.* Virtual poster presentation at Society of Biological Psychiatry, New York, New York.

Pokorny, V., Marquardt, C., Teich, C., & Sponheim, S. (2019, September). *Psychosis is Associated with Attenuated Early Alpha Synchronization and Normative Late Alpha Desynchronization During Auditory Processing.* Poster presented at Society for Research in Psychopathology, Buffalo, NY.

Pokorny, V., Schallmo, M-P., Olman, C., & Sponheim, S. (2019, May). *EEG Measures Reflect Diminished Visual Context Processing in Psychotic Disorders.* Poster presented at Minneapolis VA Research Day, Minneapolis, MN.

Sponheim, S., Kang, S., Pokorny, V., & Schallmo, M-P. (2019, April). *Contour Perception in Schizophrenia: Localization and Timing of Aberrant Visual Cortical Processes.* Symposium presentation at Schizophrenia International Research Society, Orlando, Florida.

Pokorny, V., Marquardt, C., Kang, S., & Sponheim, S. (2018, May). *Physiological responses to aversive combat stimuli associated with PTSD.* Poster presented at Minneapolis VA Research Day. Minneapolis, MN.