Matthew D. Sweitzer, Ph.D.

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Qualifications

- Proficient in Python, *R*, Rust, Javascript, HTML, CSS, LaTeX, and SQL computing languages, as well as distributed batch scheduling on supercomputers with Slurm and Torque.
- Designed, implemented, analyzed, and published computational social scientific research using a variety of methods, including machine learning, cross-sectional and longitudinal social network analysis, natural language processing, structural equation modeling, bayesian statistics, and maximum likelihood estimation.
- History of taking on complex responsibilities, communicating with diverse and interdisciplinary team members, and managing multiple projects and teams, in both academic and industry research settings.

Education

OHIO STATE UNIVERSITY	OHIO STATE UNIVERSITY	UNIVERSITY OF MISSOURI
Ph.D., Communication	M.A., Communication	B.A. (Honors), Communication
Graduated July 2021	*Graduated May 2019*	*Graduated May 2012*

Recent Employment History

SANDIA NATIONAL LABORATORIES, Machine Intelligence and Visualization – Albuquerque, NM

Senior Member of Technical Staff — September, 2022 – *present*
Postdoctoral Appointee — July, 2021 – September, 2022
Graduate Technical Intern — May, 2019 – July, 2021

- Served as work package manager on a machine learning project with direct reports at the U.S. Department of Energy.
- Led the development and testing of new network analytic measures and their predictive capacity of social group stability in machine learning models.
- Developed machine learning and natural language processing data analytic pipelines across different projects and programming languages.

OHIO STATE UNIVERSITY, School of Communication – Columbus, OH

Graduate Research & Teaching Associate — August, 2015 – July, 2021

- Designed, implemented, analyzed data, and presented results for several social-scientific studies involving a wide variety of methods and procedures.
- Trained and managed other graduate and undergraduate research assistants.
- Contributed to a successful application for a research grant (Miller Award, see full CV on my website).
- Independently taught industry research methods, social media, and persuasive communication courses.
- Assisted in the instruction of crisis communication and industry research methods, including guest lectures.
- Crafted and graded assignments, including examples of research designs and data analyses.

Additional Training

- *Machine Learning & Deep Learning Workshop*, Sandia National Laboratories, July 25 – 28, 2022
- *Complex Systems Summer School*, Santa Fe Institute, June 10 – July 6, 2018
- *Workshops on Social Network Analysis*, Political Networks Conference, June 14 – 15, 2017
- *Statistical Horizons – Structural Equation Modeling*, The Ohio State University, August 8 – 9, 2016

Additional Accomplishments and Awards

- Published 28 articles across top-ranked, peer-reviewed academic journals and conference proceedings.
- Presented numerous projects at academic conferences in the social sciences, complexity science, military and government research, and nuclear research fields.
- Won five top paper awards from the International Communication Association, the National Communication Association, the American Political Science Association, and the International Society for Self and Identity.
- *Doris Gildea Morgan Scholarship* (senior researcher of the year) - Ohio State University, School of Communication (Awarded 2019)
- *Walter B. Emery Memorial Scholarship* (junior researcher of the year) - Ohio State University, School of Communication (Awarded 2018)
- *2017 Graduate Fellowship Award* - Political Networks Conference
- *Member* – Lambda Pi Eta National Communication Honors Society, Chi Beta chapter
- *Edward and Ellen Kniep Memorial Scholarship* – University of Missouri (Awarded 2008-2012)
- *John and Virginia Sutherland Scholarship* – University of Missouri (Awarded 2008-2012)