

## Matthew D. Sweitzer, Ph.D.

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### Qualifications

- Proficient in Python, R, Rust, Javascript, HTML, CSS, L<sup>A</sup>T<sub>E</sub>X, 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.
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### Education

OHIO STATE UNIVERSITY  
Ph.D., Communication  
*Graduated July 2021*

OHIO STATE UNIVERSITY  
M.A., Communication  
*Graduated May 2019*

UNIVERSITY OF MISSOURI  
B.A. (Honors), Communication  
*Graduated May 2012*

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### 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 Technical Lead 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.
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### 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
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### Additional Accomplishments and Awards

- Published 14 articles in top-ranked, peer-reviewed academic journals.
  - Presented 30 projects at academic conferences in the social sciences, complexity science, military and government research, and nuclear research fields.
  - Won four 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)
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