

Michael Schultz

COMPUTATIONAL SOCIAL
SCIENTIST & SOCIOLOGIST



Contact

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Skills

Research Design

Statistical & Computational
Analysis

Machine Learning

Natural Language Processing

Communication & Presentation

Education and Mentoring

Languages

R (16 yrs)

Python (15 yrs)

C++ (6 yrs)

JavaScript / HTML / CSS (6 yrs)

C (5 yrs)

SQL (3 yrs)

C# (1 yr)

Summary

Computational social scientist with 16 years of experience and a record of top tier publications. Ph.D. in Sociology, M.S. in Computer Engineering. Expert in research methodology, communication structures, and their policy consequences.

Experience

Assistant Professor of Sociology, Indiana University, Bloomington, IN

8/2019 - PRESENT

- Developed novel statistical methods for statistical model selection, abductive inference, and communication analysis
- Researched policy and organizational consequences of communication at the Federal Reserve, NASA, and in international diplomacy
- Published in the *American Sociological Review*, *Sociological Methodology*, *Sociological Methods and Research*, *Symbolic Interaction* and *Quality and Quantity*
- Taught graduate and undergraduate courses in computational methods, statistical inference, and economic sociology
 - Awarded the 2023 Indiana University Trustees Teaching Award
- Advised and mentored Ph.D. students on dissertations, theses, & qualifying exams

Post-Doctoral Researcher, Northwestern University, Chicago, IL

6/2016 - 7/2019

- Researched social interactions and network dynamic of teams and organizations,
- Funded by grants from NASA, US ARL, Gates Foundation, DARPA
- Mentored and advised graduate students
- Managed a research lab of 20+ researchers, graduate students, undergraduates, programmers, and support staff

Graduate Researcher, University of California, Berkeley, Berkeley, CA

8/2008 - 5/2016

- Researched organizational communication, consumption patterns, and cooperation
- Provided consulting services in statistical analysis & research design to faculty and graduate students
- Prepared and conducted seminars in Python programming, data analysis, and research methods for faculty and graduate students

Education

Ph.D. Sociology, University of California, Berkeley, Berkeley, CA

9/2008 - 8/2016

- Dissertation Title: *The Structure of American Lifestyle: Statistical Models and Analyses*
- Coursework in Economic Sociology, Organizations, Social Psychology, Statistics

M.A. Secondary Education, George Washington University, Washington, DC

8/2004 - 12/2006

M.S. Electrical and Computer Engineering, Carnegie Mellon University, Pittsburgh, PA

8/2003 - 5/2004

- Coursework in Machine Learning, Signal Processing, Information Theory