

# 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, model interpretation, communication structures, and their policy consequences.

## Experience

### Assistant Professor of Sociology, Indiana University, Bloomington, IN

8/2019 - PRESENT

- Developed novel statistical models, model metrics, and research methodologies
- 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

### 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 10+ 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 interpersonal 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 Lifestyles: 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