

# Michael Schultz, PhD

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## Summary

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- Experienced computational social scientist with 16 years of experience and a record of top tier publications
- Expert in research methodology, model interpretation, communication structures, and their policy consequences.
- Combines the domain expertise and insights of a social scientist with the technical expertise and practicality of an engineer to identify empirically supported real-world solutions
- Effective collaborative and independent researcher drawing on strong skills in technical translation, analytic thinking, and consensus building
- Accomplished advisor and instructor with 17 years of mentoring and educational experience

## Skills

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Research Design • Statistical & Computational Analysis • Machine Learning • Natural Language Processing  
Communication & Public Speaking • Education & Mentoring • Interdisciplinarity • Collaboration • Analytic Thinking

**Programming Languages:** R (16 yrs) • Python (15 yrs) • C++ (6 yrs) • JavaScript / HTML / CSS (6 yrs) • C (5 yrs) • SQL (3 yrs) • C# (1 yr)

## Experience

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### Assistant Professor of Sociology

Aug 2019 – Present

Indiana University, Bloomington, Bloomington, IN

- Developed novel statistical models, model metrics, and research methodologies
- Applied network analysis, machine learning, and natural language processing to study policy and organizational consequences of communication at the Federal Reserve, NASA, and in international diplomacy
- Published in and reviewed for top tier sociology and methodology journals
- Taught graduate and undergraduate courses in computational methods, statistical inference, and economic sociology
- Awarded the *2023 Indiana University Trustees Teaching Award*

### Post-Doctoral Researcher and Manager

June 2016 – July 2019

SONIC Research Lab, Northwestern University, Chicago, IL

- Applied network analysis, machine learning, and survey methods to study social interactions and network dynamic of teams and organizations on projects funded by grants from *NASA, US ARL, Gates Foundation, DARPA*
- Mentored and advised 10+ graduate students across three different disciplines
- Recruited and managed a team of 8 undergraduate researchers and assistants
- Managed a research lab of 20+ researchers, graduate students, undergraduates, programmers, and support staff

### Doctoral Researcher and Consultant

Aug 2008 – May 2016

University of California, Berkeley, Berkeley, CA

- Applied nonparametric statistics and natural language processing to research 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

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### Doctor of Philosophy in Sociology

Sept 2008 – Aug 2016

University of California, Berkeley

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

### Master of Arts in Secondary Education

Aug 2004 – Dec 2006

George Washington University

### Master of Science in Electrical and Computer Engineering

Aug 2003 – May 2004

Carnegie Mellon University

- Coursework in Machine Learning, Signal Processing, Information Theory