Michael Schultz, PhD

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Summary

- 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

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

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

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