



# Michael Schultz

COMPUTATIONAL RESEARCHER & ECONOMIC SOCIOLOGIST

## Details

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## Skills

Research Design

Statistical Modeling

Computational Analysis

Machine Learning

Natural Language Processing

Programming – R, Python, C#, C

Communication & Presentation

Education and Mentoring

## Profile

An innovative computational social scientist and educator. Expert in research methodology and organizational communication. A record of top tier research and publications focusing on the behavior of the U.S. Federal Reserve & NASA.

## Employment History

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

AUGUST 2019

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

### Post-Doctoral Researcher, Northwestern University, Chicago, IL USA

JUNE 2016 - JULY 2019

- Conducted research in social network analysis, focusing on the dynamics of teams and organizations
- Mentored and advised graduate students, providing academic and professional support in their research endeavors.
- Managed a research lab of 20+ researchers, graduate students, undergraduates, programmers, and support staff
- Worked on research grants from NASA, the Gates Foundation, DARPA

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

AUGUST 2008 - MAY 2016

- Conducted independent and supervised research on consumption patterns, organizational communication, and cooperation
- Offered 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 USA

SEPTEMBER 2008 – AUGUST 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 USA

AUGUST 2004 – DECEMBER 2006

- Emphasis in Mathematics Education

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

AUGUST 2003 – MAY 2004

- Coursework in Machine Learning, Signal Processing, Information Theory

# Publications

## Peer Reviewed Journal Articles

- Schultz, Michael, Leslie DeChurch, and Noshir Contractor. “**Embedded Interactions and Selective Disclosure: Network Effects on Conversations aboard Skylab.**” Accepted at *Symbolic Interactionism*.
- Schultz, Michael. “**Prospects for the Statistical Testing of Internally Generated Hypotheses: Research Designs and Metrics.**” Accepted at *Quality and Quantity*.
- Schultz, Michael. 2022. “**Recurrent Multinomial Models for Categorical Sequences.**” *Sociological Methods & Research*. doi: 10.1177/00491241211067513.
- Schultz, Michael. 2018. “**The Problem of Underdetermination in Model Selection.**” *Sociological Methodology* 48(1):52-87.
- Schultz, Michael. 2018. “**On the Assumptions of Inferential Model Selection: Response to Vassend and Weakleim.**” *Sociological Methodology* 48(1):97-102.
- Fligstein, Neil, Jonah Stuart Brundage, and Michael Schultz. 2017. “**Seeing Like the Fed: Culture, Cognition, and Framing in the Failure to Anticipate the Financial Crisis of 2008.**” *American Sociological Review* 82(5): 879-909.
- Feinberg, Matthew, Robb Willer, and Michael Schultz. 2014. “**Gossip and Ostracism Promote Cooperation in Groups.**” *Psychological Science* 25(3): 656-664.

## Book Chapters

- Willer, Robb, Matthew Feinberg, Kyle Irwin, Michael Schultz, and Brent Simpson. 2010. “**The Trouble with Invisible Men.**” in *Handbook of the Sociology of Morality*. New York: Springer, 315-330.