




ERIC MARTIN FELTHAM

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EMPLOYMENT

Postdoctoral Associate

June 2023 - current

Yale Institute for Network Science and Department of Sociology, Yale University

EDUCATION

Ph.D., Sociology, Yale University (with Distinction)

May 2023

Dissertation title: "Cognizing Social Networks"

New Haven, CT

Dissertation committee: Drs. Nicholas Christakis (chair), Emily Erikson, Laura Forastiere, Ifat Levy

M.A., Statistics, Yale University

2018

en route to Ph.D.

New Haven, CT

B.A., Philosophy; B.A., Economics, University of Massachusetts Amherst

2013

magna cum laude, Phi Beta Kappa

Amherst, MA

RESEARCH INTERESTS

Social networks, causal inference statistical methods, mathematical sociology, social cognition, social theory, political sociology

RESEARCH EXPERIENCE

Graduate Researcher

2016 - 2023

Yale Institute for Network Science and Human Nature Lab, New Haven, CT

- Designed and led large scale data collection and analysis efforts on individuals' perceptions of social network structure in over 80 villages in rural Honduras
- Conducted fieldwork in rural Honduras to support data collection and analysis effort for thesis project
- Developed generalized difference-in-differences methodology to estimate the impact of large-scale political gatherings on the spread of COVID-19 in the USA

Research Fellow

2019

Dr. Emily Erikson, Yale University, New Haven, CT

- Analyzed historical social network data consisting of English economic manuscript writers from the 18th century
- Applied topic modeling to uncover trends in the economic literature over a roughly 200-year period
- Research contributed to a book, published as *Trade and Nation* (2021, Columbia UP)

Graduate Researcher

2018

Drs. James Evans, Michael Franklin, Joshua Tenenbaum, University of Chicago, Chicago, IL

- Part of a team on a grant "Social MIND: Social Machine Intelligence for Novel Discovery"
- Applied causal inference methods to reconstruct the "ground truth" from simulation data from social scenarios where the data generating process is unknown

Research Assistant

2014 - 2016

Levy and Harpaz-Rotem Labs, Yale University School of Medicine, New Haven, CT

- Independently performed fear conditioning experiments with human participants in behavioral and MRI settings
- Cleaned and analyzed behavioral data using MATLAB, and ACQKnowledge software
- Preprocessed and analyzed fMRI data using BrainVoyager software

Research Assistant

2014

Schiller Affective Neuroscience Lab, Mount Sinai Icahn School of Medicine, New York, NY

- Independently performed human subject trials investigating the effects of a pharmacological agent on memory formation and persistence

Undergraduate Honors Thesis

2013

University of Massachusetts Amherst Commonwealth Honors College, Amherst, MA

- Title: “Unconscious Attention? Inattentive Consciousness? Examining the Relationship Between Attention and Phenomenal Consciousness”
- Committee: Drs. Joseph Levine and Louise Anthony

PUBLICATIONS

Eric Feltham, Laura Forastiere, Marcus Alexander, Nicholas Christakis. (2023). “Mass gatherings for political expression had no discernible association with the local course of the COVID-19 pandemic in the USA in 2020 and 2021”. *Nature Human Behavior*. <https://doi.org/10.1038/s41562-023-01654-1>

Sanjeev Kumar and **Eric Feltham**. (Under Review at *Social Science & Medicine - Mental Health*). “Does Health Influence Risk Preference?”

Emily Erikson and **Eric Feltham**. (2021). “Structure”. In *Research Handbook on Analytical Sociology*. Cheltenham, UK: Edward Elgar Publishing.

Emily Erikson and **Eric Feltham**. (2020). “Historical Network Research”. In *Oxford Handbook of Social Networks*. New York: Oxford UP. <https://doi.org/10.1093/oxfordhb/9780190251765.001.0001>

Philipp Homan, Ifat Levy, **Eric Feltham**, Charles Gordon, Jingchu Hu, Jian Li, Robert H. Pietrzak, Steven Southwick, John H. Krystal, Ilan Harpaz-Rotem, Daniela Schiller. (2019). “Neural computations of threat in the aftermath of combat trauma”. *Nature Neuroscience* 22, 470–476. <https://doi.org/10.1038/s41593-018-0315-x>

WORKING PAPERS

Eric Feltham, Laura Forastiere, and Nicholas Christakis. “Social Networks in Mind”.

Eric Feltham and Nicholas Christakis. “Risk Attitudes and Network Structure in Honduras”.

Eric Feltham, Nicholas Christakis, Babak Fotouhi. “The Networked Climate Game”.

Eric Feltham. “Identity and Polarization”.

Dominik Duell, **Eric Feltham**, Nicholas Christakis. “Revolutions *in silico*”.

OTHER WRITING

Eric Feltham and Nicholas Christakis. (2023). “Rapid research with a pandemic bearing down: Studying the impact of mass gatherings on the course of COVID-19”. **Springer Nature Communities**. (Invited contribution to “Behind the Paper” series for the Springer Nature Social Sciences online community.)

Eric Feltham and Nicholas Christakis. (2020). “Voting In The 2020 Primaries Didn’t Worsen The COVID-19 Pandemic”. **FiveThirtyEight**.

GRANTS, HONORS, AND AWARDS

Sussman Prize for best dissertation in the past two years

2024

Yale Department of Sociology, New Haven, CT

National Institutes of Health, The National Institute on Aging and the Office of Behavioral and Social Sciences Research

2022

Research Grant (R-01), “Characterizing Individuals’ Cognitive Maps of their Village Social Networks”

- Award: \$3,226,809 (over 4 years)
- PI: Dr. Nicholas Christakis
- Role: Researcher

Robert Wood Johnson Foundation

2020

“Assessing the Hazard of Elections During the COVID-19 Pandemic”

- Award: \$350,000

- PI: Dr. Nicholas Christakis
- Role: Researcher

U.S. Fulbright Research Semi-Finalist **2016**

- Proposal to research economic and social decision-making

Summer School in Logic and Formal Epistemology **2015**

Carnegie Mellon University

- Admitted with full-funding to competitive NSF-funded program
- Took advanced courses in topology, modal logic, and the applications of decision theory for formal epistemology

Summer Institute for Training in Biostatistics **2014**

Emory University

- Admitted with full-funding to competitive NIH-funded program
- Took introductory graduate level Biostatistics courses
- Presented case studies based on statistical analysis

Commonwealth Honors College Scholar with Greatest Distinction **2013**

- Awarded based on thesis quality and GPA

SOFTWARE

TSCSMethods.jl (sole author)

- Performs non-parametric generalized differences-in-differences estimation, with covariate matching

SamplingPerceivedNetworks.jl (sole author)

- Implements a sampling procedure for “cognitive social structures” data collection

Typst.jl (sole author)

- Implements an interface from the Julia language to the mark-up language Typst for academic writing

GraphDataFrameBridge.jl (contributor)

- Contributed functions to process network data

TEACHING

Yale College, New Haven, CT **Jan. 2023 - May 2023**

Teaching Fellow

- Course: Sociology of Crime and Deviance SOCY 141b

Yale College, New Haven, CT **Sep. 2022 - Dec. 2022**

Teaching Fellow

- Course: Health of the Public SOCY 126a

Yale College, New Haven, CT **Jan. 2022 - May 2022**

Teaching Fellow

- Course: Topics in Contemporary Social Theory SOCY 152b

Yale College, New Haven, CT **Sep. 2021 - Dec. 2021**

Teaching Fellow

- Course: Sex and Gender in Society SOCY 134a

Yale College, New Haven, CT **Jan. 2020 - May 2020**

Teaching Fellow

- Course: Health of the Public SOCY 126b

Yale College, New Haven, CT **Sep. 2019 - Dec. 2019**

Teaching Fellow

- Course: Foundations of Modern Social Theory SOCY 151a

Yale College, New Haven, CT **Jan. 2019 - May 2019**

Teaching Fellow

- Course: Social Networks and Society SOCY 167b

Yale College, New Haven, CT **Sep. 2018 - Dec. 2018**

Teaching Fellow

- Course: Computers, Networks and Society SOCY 133a

POSTERS AND ORAL PRESENTATIONS

Eric Feltham. “Cognizing social networks”. Duality@50: Making progress and looking forward, ETH Zürich, Ascona, Switzerland, April 2024

Eric Feltham. “Cognizing social networks”. University of Iowa, Iowa City, IA, Nov. 2023

Eric Feltham. “Cognizing social networks”. Implementation and Dissemination Science Workshop. Copán, Honduras, June 2023

Eric Feltham. “Modeling the Effect of Identity on Polarization”. Center for Empirical Research on Stratification and Inequality, Yale University, New Haven, CT, Jan. 2019

Eric Feltham. “Experiments on Observational Learning”. Yale Institute for Network Science, New Haven, CT, Aug. 2018

Megha Chawla, Philipp Homan, Charles Gordon, **Eric Feltham**, Daniela Schiller, Ilan Harpaz-Rotem, Ifat Levy. “Cortical thickness and volume of the right posterior parietal cortex predict individual learning rate in healthy adults”. Society for Neuroscience, San Diego, CA, 2018

Eric Feltham. “Using Tools from Causal Inference to Reconstruct Simulated Social Data”. Defense Advanced Research Projects Agency, Alexandria, VA, 2018

MENTORING

Karen Gao (Computer Science and Psychology, Yale College 2027)

Breanna Nguyen (Cognitive Science, Yale College 2025)

Kaity Chandrika (Sociology, Yale College 2025)

Justice Harasha (Economics and Mathematics, Yale College 2024)

Kayla Morgan (Cognitive Science, Yale College 2024)

Benjamin Snyder (Economics, Yale College 2022)

PROFESSIONAL SERVICE

Reviewer, **Risk Analysis** (2022 Impact Factor: 3.8)

Reviewer, **Policy Analysis** (2022 Impact Factor: 2.2)

Reviewer, **Yale Undergraduate Research Journal**

SKILLS

LANGUAGES

Git Julia R MATLAB Python Spanish (basic) French (basic)

SELECTED COURSEWORK

Data Analysis, Probability Theory, Theory of Statistics, Multivariate Statistical Analysis, Linear Models, Stochastic Processes, Computational Tools for Data Science, Research Design & Causal Inference, Social Network Analysis, Research Topics in Human Nature and Social Networks, Topics in Biosocial Science, The Microeconomics of Coordination and Conflict

ADVOCACY

Campaign Coordinator

2010 - 2011

Students for a Just and Stable Future, Boston, MA

- Spoke at public events to represent the organization
- Coordinated a campaign with community members and college students from across Massachusetts
- Worked on climate policy for MA state legislation

Team Leader

June 2010 - Aug. 2011

Better Future Project, Boston, MA

- Led a team of four members and coordinated their roles relating to media, events, and housing
- Organized events discussing the impacts of economic and environmental policy

REFERENCES

Dr. Nicholas Christakis, Sterling Professor of Social and Natural Science, Yale University

Dr. Emily Erikson, Professor of Sociology and (by courtesy) Management, Yale University

Dr. Laura Forastiere, Assistant Professor of Biostatistics, Yale School of Public Health, Yale University

Dr. Ifat Levy, Associate Professor of Comparative Medicine, Neuroscience, and Psychology, Yale School of Medicine, Yale University