Michael Burnham

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Education

Pennsylvania State University
Ph.D. (Dual Title), Political Science & Social Data Analytics, 2024.
M.A., American Politics, 2022

Georgetown University
M.A., International Relations, 2015.

Utah State University
B.A., Economics & International Relations, 2013.

Articles

Block Jr, Ray, Michael Burnham, Kayla Kahn, Rachel Peng, Jeremy Seeman, and Christopher Seto. "Perceived risk, political polarization, and the willingness to follow COVID-19 mitigation guidelines." Social Science & Medicine (2022): 115091.

Ackerman, Gary A., and Michael Burnham. "Towards a definition of terrorist ideology." Terrorism and Political Violence 33, no. 6 (2021): 1160-1190.

Book Chapters

Burnham, Michael, and Michael J. Nelson. "Judicial Elections and Judicial Behavior." In *Oxford Handbook of Comparative Political Behavior*. Oxford University Press, 2023

Working Papers

Burnham, Michael. "Semantic Scaling: Bayesian Ideal Point Estimates with Large Language Models."

Burnham, Michael. "Stance Detection With Supervised, Zero-Shot, and Few-Shot Applications." *arXiv pre-print: 2305.01723*

Software

Entss: Entailment Classification and Semantic Scaling.
Stance detection with transformers and ideal point estimates with Bayesian IRT.

Edited Volumes

Georgetown Security Studies Review Vol. 3 Iss. 2. Georgetown Center for Security Studies, July 2015.

Georgetown Security Studies Review Vol. 3 Iss. 1. Georgetown Center for Security Studies, January 2015.

Conferences

PolMeth
Poster presenter: 2023, 2022

New Directions in Analyzing Text as Data
Poster Presenter: 2021

International Studies Association
Panelist: 2016, 2014

Research Positions	**Political Science, Pennsylvania State University** Research Assistant, Michael J. Nelson Graduat Research Fellow, The Center for Social Data Analytics Research Assistant, Kevin Munger Research Assistant, Eric Plutzer **START** Researcher, Terrorist Ideology Project
Teaching	**Political Science, Pennsylvania State University** Instructor, Social Data Analytics Capstone Course, Spring 2023 Instructor, Math for Political Science Workshop, Summer 2023 Instructor, R for Political Science Workshop, Summer 2022 Teaching Assistant, Introduction to American Politics, Fall 2019 Teaching Assistant, Quantitative Political Analysis, Fall 2022 Teaching Assistant, Political Methodology Graduate Seminar, Fall 2022 **ICPSR Summer Program in Quantitative Methods** Guest Lecturer, Ideological Scaling with Large Language Models, Summer 2023
Service	**Georgetown Security Studies Review** Editor in Chief, 2014-2015
Professional Experience	**Deloitte** *Senior Consultant, Pentagon, Arlington, Va, 2017-2019* Lead data scientist for the United States Air Force F-35 integration office. Analyzed expense and repair data and briefed senior officials. **ANSER** *Analyst, Arlington, Va, 2016-2017* Assisted with the design and analysis of federally funded research projects on counter radicalization programs and infrastructure resilience.
Awards	**Outstanding Political Science Graduate Student** Penn State, 2023 **Georgetown Security Studies Program Merit Scholarship** Georgetown University, 2013-2015 **Undergraduate Teaching Fellow of the Year** USU Huntsman School of Business, 2013
Languages and Skills	English, Ukrainian, Russian Python, R, Stata, LaTeX, Git, HTML5, CSS
Contacts	Michael Nelson: mjn15@psu.edu Bruce Desmarais: bdesmarais@psu.edu Suzie Linn: sld8@psu.edu