

Margaret J. Foster

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Academic Positions

- 2023–2024 **Postdoctoral Researcher**, Duke University
2020–2023 **Postdoctoral Fellow**, University of North Carolina at Chapel Hill

Education

- 2014–2020 **Ph.D.**, Political Science, Duke University
Fields: Security, Peace, and Conflict, Political Methodology
Ph.D. Received: May 2020
- 2008–2010 **M.A.** Political Science, McGill University
Degree conferred: January 2011
- 2004–2007 **B.A.** University of Pennsylvania
Bachelor of Arts with Distinction in International Relations
Graduated Cum Laude
- 2003–2004 Dickinson College. Coursework towards B.A.

Professional Positions

- 2024–Present SecretSauce, Founder
2009–2014 SITE Intelligence Group, Senior Analyst
2007–2008 SITE Intelligence Group, Analyst

Publications

- Foster, Margaret J.** “Subject to Change.” *Forthcoming*, Political Science Research and Methods.
- Johnson, Tana, and **Margaret J. Foster**. Rhetorical Frames: A Strategy of Governmental Power in International Negotiations. *Third World Quarterly*, 2024, 1 – 24. doi:10.1080/01436597.2024.2385103.
- Morucci Marco, **Margaret J. Foster**, So Jin Lee, Kaitlyn Webster, and David Siegel. “Measurement That Matches Theory: Theory-Driven Identification in Item Response Theory Models.” *American Political Science Review*, 2024, 1 – 19. doi:10.1017/S000305542400039X.
- Foster, Margaret J.** 2024. “Gig Economy Insurgency.” *Studies in Conflict & Terrorism*, 2024, 1 – 22. doi:10.1080/1057610X.2024.2367256.
- Minhas, Shahryar, Cassy Dorff, **Margaret J. Foster**, Max Gallop, Juan Tellez, Howard Liu, and Michael Ward. 2021. “Taking Dyads Seriously: A Latent Network Approach for Global Politics.” *Political Science Research & Methods*. doi:10.1017/psrm.2021.56
- Foster, Margaret J.**, and David A Siegel. 2019. “Pink Slips from the Underground: Changes in Terror Leadership.” *International Studies Quarterly*. 63 (2):231-243. doi:10.1093/isq/sqz017

Book Chapters

Shapiro, Jacob N, **Margaret J. Foster**, and David A. Siegel. “Organizing Terrorism” in Handbook on the Economics of Terrorism, edited by Atin Basuchoudhary and Günther Schulze. *Under Contract* from Cambridge University Press.

Under Review or Revision

“Growth Trap: Grassroots-Driven Transformation of Militant Organizations” Combines qualitative and computational methods to propose a mechanism of upward-driving change after rapid growth in armed militant groups. *Under review*

“Developing Gridlock: Frames of Contestation at the World Trade Organization” Text-as-data and network analysis of the World Trade Organization’s Committee on Trade and Development. Contribution: text analysis to quantify opaque organizational processes (gridlock) in international negotiations. With Tana Johnson and Maurits van der Veen.

In Development

“IRT-M Harvester” Demonstrates application of the IRT-M model to aggregate surveys across time and place, demonstrates with reference to anti-state mobilization in countries covered by the Afrobarometer survey. With Marco Morucci, So Jin Lee, Kaitlyn Webster, and David Siegel, and Elizabeth Carleson.

“IRT-M: An R Package for Theoretically-Identified Dimensionality Reduction” Introduces the IRT-M R package and differentiates IRT-M from other forms of dimensionality reduction. Prepared for statistical software journals. With David Siegel.

“Domino Effect: When Do Recruit Social Networks Exacerbate Fragmentation.” Creates a bespoke agent-based network simulation to model a practitioner claim that (1) it is more difficult for groups to socialize recruits with preexisting social connections and (2) when any of those members become disenchanting by the group, the entire preexisting social network is susceptible to exiting.

“Simulated Degradation: A Falsification Test For Regression Models With Network Variables.” Simulation infrastructure to identify substantively important edges in a regression model, which can be analyzed for theoretical implications.

Presentations and Workshop Participation

Invited Workshops

2023. “Peace Operations Data, Analytics, and Action.” United Nations Department of Peace Operations. New York, New York.

2022. “Domino Effect: Network Structure and Recruit Cohesion.” CASBS Seminar Series for the Organizations and Their Effectiveness Institute (Virtual).

2022. “Working session on monitoring and measurement of peace.” Principles for Peace. Geneva, Switzerland

2022. “Subject to Change.” Peace Science OPSEC. Virtual.

2022. “AI, NLP, and Text-As-Data Virtual Workshop.” Prepared for United Nations Department of Peace Operations staff and partners. Virtual.

2022. “Power of the Weak.” Pre-conference Workshop. Political Economy of International Organizations, Oxford, UK
2019. “Frontiers in Organizational Studies” Center for Advanced Study in the Behavioral Sciences, Stanford University, Palo Alto, CA.
2019. “Measuring and Conceptualizing Rebel Governance.” Pre-conference Workshop. Peace Science Society Annual Meeting. Manhattan, KS
2018. *Participant*. Summer Institute on Organizations and Their Effectiveness. Center for Advanced Study in the Behavioral Sciences, Stanford University, Palo Alto, CA.

Selected Presentations

“Bottom-up Transformation: Recruitment Driven Pressures For Internal Change”

2019. American Political Science Association Annual Meeting. Washington, D.C.
2019. Behavioral Models of Politics. State College, PA

“Over Pressure: Grassroots-Driven Transformation of (Militant) Organizations”

2019. New Faces Conference, Triangle Institute for Security Studies, Durham, NC
2019. Online Peace Science Colloquium.
2018. Visions in Methodology. Ohio State University, Columbus, OH
2018. New Faces in Political Methodology, Pennsylvania State University, State College, PA
2018. Annual Meeting. Society for Institutional & Organizational Economics, Montreal, Canada

“Simulated Degradation: A Falsification Test For Regression Models With Network Variables”

2019. International Studies Association Annual Meeting. Toronto, Ontario
2017. Political Methodology Annual Meeting Poster Session, Madison, WI
2017. Political Networks Conference Poster Session, Columbus, OH.

“Text-Based Approaches to Analyzing Group Behavior in Conflict Settings”

2019. Politics and Computational Social Science (PaCSS). Georgetown University. Washington, D.C.

“Transnational Connections for a Transnational Ideology: Networks and Influence on Jihadi Telegram”

2018. Politics and Computational Social Science (PaCSS). Northeastern University, Boston, MA

“State Interventions and the Growth or Suppression of Anti-State Actions.” Siegel et al. (Recipient of NSF Grant for \$190,000).

2017. Peace Science Society Annual Meeting, Tempe, AZ

Grants, Awards, and Research Support

Summer Research Fellowship, Duke University Graduate School (Competitive), 2017, 2018, 2019. (\$5,500)

Carnegie Junior Scholar, Carnegie International Policy Scholars Consortium, 2016 – 2018

2017. Honorable Mention, Best Poster Award. Political Networks Conference

2017. Political Networks Fellowship Award. (\$700)

2017. Foreign Language and Area Studies Fellowship (Arabic). (Declined)

2016. Research grant, Ilona Evans Fund, Duke University Department of Political Science. (\$6,000)

2015. Honorable Mention, National Science Foundation Graduate Research Fellowship Program

Service to the Profession

Communications Director, Political Networks APSA Section. 2020-2023.

Conference Program Committees

2021, 2022. Political Networks Virtual Conference.

2021, 2022. Politics and Computational Social Science (PaCSS) Virtual Conference.

Reviewer for: *American Political Science Review*, *Nature Human Behavior*, *Conflict Management and Peace Science*

Languages

French (Advanced), Arabic (Intermediate)

References

David A. Siegel, Professor of Political Science, Duke University, 140 Science Drive, david.siegel@duke.edu

Tana Johnson, Associate Professor of Public Affairs and Political Science, La Follette School of Public Affairs, University of Wisconsin-Madison, tana.johnson@wisc.edu

Mark Crescenzi, Chair Professor of Political Science, University of North Carolina- Chapel Hill, 361B Hamilton Hall, crescenzi@unc.edu

Peter D. Feaver, Professor of Political Science and Public Policy and Director of the American Grand Strategy Program, Duke University, pfeaver@duke.edu

Laia Balcells, Provost's Distinguished Associate Professor, Georgetown University, laia.balcells@georgetown.edu