Miriam Barnum

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ACADEMIC APPOINTMENTS

2022- | Assistant Professor

Department of Political Science, Purdue University

2022-23 | Stanton Nuclear Security Postdoctoral Fellow

Center for International Security and Cooperation, Stanford University

EDUCATION

2022 Ph.D., Political Science and International Relations, University of Southern California

Fields: International Security, Quantitative Methods, International Political Economy (minor)

Dissertation: Lesser Evils?: WMD Pursuit Beyond Nuclear Weapons

Committee: Patrick James (chair), Jacques E.C. Hymans, James Lo, Najmedin Meshkati

2016 A.B., *cum laude*, Harvard University

Major: Social Studies (High Honors)

Minor: Computer Science

PEER-REVIEWED JOURNAL ARTICLES

- Barnum, Miriam, Christopher J. Fariss, Jonathan N. Markowitz, and Gaea Morales. "Measuring Arms: Introducing the Global Military Spending Dataset." *Journal of Conflict Resolution*. OnlineFirst, February 2024.
- Estimates of Over 500 Years of Historic GDP and Population Data." Journal of Conflict Resolution, Volume: 66, Issue: 3 (April 2022), pages 553-591.
- 2020 **Barnum, Miriam** and James Lo. "Is the NPT Unravelling? Evidence from Text Analysis of Review Conference Statements." *Journal of Peace Research*, Volume: 57, Issue 6 (December 2020), pages 740 751.
- 2016 **Barnum, Miriam** and Bryan L. Fearey. "Sanctions as a Nonproliferation Tool: Lessons from Libya." *Comparative Strategy*, Volume: 35, Issue: 4 (August 2016), pages 234 245.

BOOK CHAPTERS

- 2023 "Nuclear Proliferation." (with Jacques E.C. Hymans). In Oxford Bibliographies in International Relations. New York: Oxford University Press.
- 2022 "Handling Missing and Incomplete Data." In Handbook of Research Methods in International Relations. Ed. Huddleston, R.Joseph, Thomas Jamieson, and Patrick James. Cheltenham, UK: Edward Elgar Publishing.

WORKING PAPERS

"De Jure Powersharing 1975-2019: Updating the Inclusion, Dispersion and Constraints Dataset." (with Alix Ziff, Ashley Abadeer, Jasmine Chu, Nicole Jao, Marie Zaragoza, and Benjamin A.T. Graham). *Revise and resubmit*, *Journal of Peace Research*.

"Internal Security Threats and WMD Proliferation Choices."

"Complex Interdependence: Global Value Chains and Military Conflict." (with Benjamin A.T. Graham and Stephen Schick).

"Targeting Allies? Deterrence, Disarmament, and NGO Activism."

"Measuring Threat in the International System." (with Jonathan N. Markowitz and Christopher J. Fariss).

"Do Nuclear Weapons Matter in Near Crisis Situations?" (with Edward Gonzales and Patrick James).

"Appropriable Wealth, Autocracy, and Human Rights." (with Christopher J. Fariss and Jonathan N. Markowitz).

FELLOWSHIPS

2021–22 | US-Asia Grand Strategy Predoctoral Fellow, USC Korean Studies Institute

2016–21 USC Dornsife Provost Fellowship in the Social Sciences

TEACHING

As Instructor

Spring 2024

POL 491: Senior Research Seminar: Weapons of Mass Destruction, Purdue University.

Fall 2023

SCLA 102: Transformative Texts: Conflict and Cooperation, Purdue University.

Summer 2018, 2019 2020, 2021

Graduate Math and Quantitative Methods Bootcamp, University of Southern California.

 Week-long intensive course reviewing mathematical notation, basic statistics, linear algebra, and differential calculus, and introducing data management and visualization with R.

Experiential Research Education

2018-21

Director of Data Science, Security and Political Economy (SPEC) Lab, University of Southern California.

- Development and implementation of data science training curriculum in R.
- Supervision of teams of undergraduate research assistants working on data collection, management, analysis, and visualization.
- Mentoring students as they build skills, take on leadership or co-authorship roles, pursue independent research, and make academic and career choices.

As Teaching Assistant

Fall 2020– Spring 2021 IR 412 & 413: Applied Data Science for International Relations 1 & 2, University of Southern California. (Instructor: Benjamin A.T. Graham)

Summer 2017

Graduate Math and Quantitative Methods Bootcamp, University of Southern California. (Instructors: Therese Anders and Suzie Caldwell-Mulesky)

Summer 2015

Introduction to the Study of Humanity, Harvard Center for Hellenic Studies. Napflio, Greece. (Instructors: Nicolas Prevelakis and Kevin Caffrey)

RESEARCH ASSISTANCE

2018–21	$21\mid$ USC Security and Political Economy (SPEC) Lab (Pls: Benjamin (Graham, Jonathan
	Markowitz, and Megan Becker)	

2017–18 | Near Crisis Project (Pl: Patrick James)

2013–15 | National Security Office, Los Alamos National Laboratory (Director: Bryan Fearey)

2013-14 | Civil Society Regulations in Hybrid Regimes (Pl: Payam Mohseni)

CONFERENCE PRESENTATIONS

"New Forum, New Framing: Shifting Approaches to Deterrence and Disarmament"

• American Political Science Association, 2023

"Appropriable Wealth, Autocracy, and Human Rights."

- Political Economy of International Security Workshop, USC, 2023
- International Studies Association, 2023

"Internal Security Threats and WMD Proliferation."

- Stanton Fellows Seminar, 2022
- Harvard-USC Conference on Asian Security Issues, Harvard University, 2022
- Center for Peace and Security Studies, University of California, San Diego, 2021
- American Political Science Association, 2021
- International Studies Association, 2021
- Peace Science Society workshop Leaders and Nuclear Politics, 2020
- International Studies Association, 2020 (Cancelled due to COVID-19)
- American Political Science Association Annual Meeting, 2019 (Poster)

"Targeting Allies? Deterrence, Disarmament, and NGO Activism."

- American Political Science Association, 2022
- International Studies Association, 2021

"Measuring Arms: Introducing the Global Military Spending Dataset."

• American Political Science Association, 2022

"Trade is the Weakest Form of Interdependence: Foreign Investment, Migration, and Conflict."

- American Political Science Association, 2023
- Pacific International Politics Conference Online Speaker Series, 2020
- International Studies Association, 2020 (Cancelled due to COVID-19)

"Do Nuclear Weapons Matter in Near Crisis Situations?"

- Peace Science Society, 2019 (Poster)
- International Studies Association, 2019
- International Studies Association-West, 2018

"Sanctions as a Nonproliferation Tool: Lessons from Libya."

• CSIS Project on Nuclear Issues Summer Conference, 2015

SERVICE

Service to the Discipline

2018-21 Discussant, USC Center for International Studies Working Paper Series. 2016, 2018 Volunteer, International Studies Association-West Annual Meeting.

Reviewer, American Political Science Review, Political Science Research and Methods, International Studies Quarterly.

Service to the Department

Purdue Political Science

2023-24 Undergraduate Studies Committee

Stanford Center for International Security and Cooperation

2023 Social Science and International Security Fellowship Selection Committee 2023 Mentor, CISAC undergraduate mentoring program.

USC Political Science and International Relations

2019-20 Committee member, Graduate Student Committee, CIS Working Paper Series.
 2019 Panelist, Qualifying Exams Workshop.
 2017-18 Co-President, Graduate Student Association.

ADDITIONAL TRAINING

- 2018 | Summer Workshop on Analysis of Military Operations and Strategy. Saltzman Institute of War and Peace Studies.
- 2018 Public Policy and Nuclear Threats Summer Workshop. UC Institute on Global Conflict and Cooperation.
- 2017 Summer Program in Quantitative Methods of Social Research. Inter-university Consortium for Political and Social Research.

SKILLS

Programming Languages: R, Python, OCaml, C, PHP, JavaScript

Other Computing Tools: Stan, Stata, RMarkdown, ŁTEX, Qualtrics, D3, SQL, HTML, CSS

Foreign Language: German (proficient)

REFERENCES

Patrick James
Department of Political Science and IR
University of Southern California
patricki@usc.edu

Jacques E.C. Hymans
Department of Political Science and IR
University of Southern California
hymans@usc.edu

Benjamin A.T. Graham
Department of Political Science and IR
University of Southern California
benjamag@usc.edu

James Lo Department of Political Science and IR University of Southern California lojames@usc.edu