

Philip M. Baxter

EDUCATION

Georgia Institute of Technology, Atlanta, GA

Ph.D. Candidate, International Affairs, Science, and Technology

Fields: International Security, Comparative Politics; Technical Minor: Nuclear Engineering

Dissertation: *Nuclear Communities: Epistemic Community Structure and Nuclear Proliferation Latency*

George Mason University, Arlington, VA

M.P.P., Public Policy, January 2010

Grove City College, Grove City, PA

B.A., Political Science and History, May 2006

PROFESSIONAL EXPERIENCE

Center for Policy Research, University of Albany

Research Fellow

October 2018-Present

Hatteras Solutions, LLC

Managing Director

Nov. 2017-Present

James Martin Center for Nonproliferation Studies

Senior Research Associate

August 2015-Sept. 2018

Georgia Institute of Technology

Research Assistant/ Teaching Assistant/ Instructor

August 2012-August 2015

MELE Associates

Program Analyst, College of International Security Affairs,
National Defense University

July 2011-March 2014

Pacific Northwest National Laboratory

Nonproliferation Fellow, National Nuclear Security Administration

June 2010-July 2011

International Monetary Fund

International Security Analyst, Security Services Division

Dec. 2006-June 2010

PUBLICATIONS

Nuclear Modernization in the 21st Century, editor, with Aiden Warren, Routledge, 21 February 2020.

“Russia’s Nuclear Modernization,” in *Nuclear Modernization in the 21st Century*, Routledge, 21 February 2020.

“Patchwork of Confusion: The Cybersecurity Coordination Problem,” with Tarun Chaudhary, Jenna Jordan, Michael Salomone. *Journal of Cybersecurity*, Vol 4, Iss. 1, 2019.

“How Small States Acquire Status: A Social Network Analysis,” with Jenna Jordan and Larry Rubin. *International Areas Studies Review*, Vol 21, Iss. 3, 2018.

“Approaches to Nuclear Cooperation: A Review of the U.S.-ROK Agreement,” *Science and Diplomacy*, September 2015.

“The False Hope of Nuclear Forensics? Assessing the Timeliness of Forensics Intelligence,” *Public Interest Reports*, Federation of American Scientists, Spring 2015, Vol. 68, Num. 2.

TEACHING EXPERIENCE

George Washington University, Washington, DC

Instructor of Record: *Emerging Threats*, Spring 2020

Instructor (Discussion Sections): *International Security*, Fall 2019

Instructor of Record: *Emerging Threats*, Spring 2019

Instructor (Discussion Sections): *International Security*, Fall 2018

University of Southern California, Washington, DC

Instructor of Record: *Technology and International Relations*, Spring 2018

Instructor of Record: *Technology and International Relations*, Spring 2017

Instructor of Record: *Technology and International Relations*, Spring 2016

Georgia Institute of Technology, Atlanta, GA

Instructor of Record: *American Government in Comparative Perspective*, Summer 2015

Instructor of Record: *American Government in Comparative Perspective*, Summer 2014

Instructor of Record: *American Government in Comparative Perspective*, Summer 2013

Teaching Assistant: *Introduction to International Relations*, Spring 2013

Teaching Assistant: *Science, Technology and International Affairs*, Fall 2012

National Defense University, Washington DC

Curriculum Lead and Lecturer: *Controlling the Bomb*, 2011-2012

INVITED PRESENTATIONS

“Technical Capacity and Network Analysis: Examining Critical Know-How for Nuclear Energy,” Applications of Innovative Tools and Technologies for Nonproliferation and Disarmament Diplomatic Workshop, Krems, Austria, April 2018

“Technical Capacity and Network Analysis: Examining Critical Know-How for Nuclear Energy,” International Workshop on the Applicability of New Tools and Technologies for Non-Proliferation, Vienna, Austria, April 2018

“Cyber-conflict and Escalation: A Review of Scenario Outputs” The Dynamics of Command, Control, and Communication in Cyber Conflict Escalation. Washington, DC, November 2017.

“Epistemic Communities and Additive Manufacturing: Examining Middle East Nuclear Energy Aspirants,” Carnegie Endowment for International Peace, May 2017

“Network Analysis and the Structure of Scientific Communities in Nuclear Weapons Programs: The Cases of Iran and Pakistan,” Middlebury Institute of International Studies at Monterey, November 2016

“Organization of Tritium Production Research and Development,” Savannah River National Laboratory, October 2016

“Technology and Knowledge Transfer in Nuclear Proliferation Networks,” Vienna Center for Disarmament and Non-Proliferation, November 2015

CONFERENCE PAPERS AND PRESENTATIONS

“Organizational Seams and Cyber Conflict Escalation” at the 2017 International Studies Association Annual Conference, Baltimore, MD (with Tarun Chaudhary, Jenna Jordan, Michael Salomone, Wes Stayton)

“Getting to the Table: Exploring the Determinants of International Negotiations and Soft Power through Network Analysis,” at the 2016 International Studies Association Annual Conference, Atlanta, Georgia

“The Determinants of Terrorism Response: A Quantitative Assessment of how States Respond to Terrorism,” at the 2016 International Studies Association Annual Conference, Atlanta, Georgia

“Small States, Strong Ties? Qatar and its Geopolitical Environment” at the 2015 International Studies Association Annual Conference, New Orleans, Louisiana (with Jenna Jordan and Lawrence Rubin)

“Technology and Knowledge Transfer in Nuclear Proliferation Networks: An Iran Case Study” at the 2015 International Studies Association Annual Conference, New Orleans, Louisiana (with Justin V. Hastings and Adam N. Stulberg)

“The False Hope of Nuclear Forensics?: Forensics in Times of Crisis” at the 2015 Georgia Tech Research and Innovation Conference’s Ivan Allen Paper Competition, Atlanta, Georgia

“The False Hope of Nuclear Forensics” at the 2014 ISAC-ISSS Joint Annual Conference, Austin, Texas

“Tacit Knowledge in Nuclear Weapons Programs: A Network Approach” at the 2014 International Studies Association South Regional Conference. Second Runner-up (\$150 award) in Jim Winkates Graduate Student Paper Competition, Richmond, Virginia

“Pyroprocessing and the Republic of Korea: A Policy Review” at the 2013 Institute of Nuclear Materials Management, Palm Springs, California

“Explaining the Puzzle of Nuclear Forbearance: States, Prudence and Nuclear Decisions” at the 2013 Midwest Political Science Association, Chicago, Illinois (co-authored with Liz Dallas)

“Preventing Nuclear Smuggling: An Analytical Approach to Evaluating Nuclear Security Effectiveness” at the 2013 Georgia Tech Research and Innovation Conference’s Ivan Allen Paper Competition

SPONSORED RESEARCH

Project Manager, “Know Your Customer Training Illicit Ballistic Missile Procurement,” 2019-2020

Principal Investigator, “Open-Source Mapping of Chemical Communities,” 2018-2020.

Principal Investigator, “Examining Cooperative Threat Reduction Metrics,” 2015-2020.

Co-Principal Investigator, “Open-Source Mapping of Proliferation Capabilities,” 2017-2018.

Project Manager, “Exploratory Study to Identify Trends in Fake News involving Weapons Capabilities,” 2017-2018.

Principal Investigator, “Hydrogen-Isotope Solid Storage R&D,” 2017-2018.

Principal Investigator, “The Organization of Tritium Production R&D,” 2016.

Co-author & Project Researcher, “The Dynamics of Command, Control and Coordination in Cyber-Conflict Escalation: A Scenario-based Examination,” 2015-2017.

Principal Investigator, “Global Nuclear Security Effectiveness Study,” 2015-2016.

SERVICE AND AFFILIATIONS

Acting Managing Editor, *The Nonproliferation Review*, January-April 2017

Member, American Political Science Association (APSA), International Studies Association (ISA), and International Network for Social Network Analysis (INSNA)

Reviewer, *International Studies Quarterly* and *The Nonproliferation Review*