

Jon Schmid

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PROFESSIONAL EXPERIENCE

RAND Corporation, Full Political Scientist, July 2020 - present
RAND Corporation, Associate Political Scientist, April 2018 - July 2020

EDUCATION

Georgia Institute of Technology
Ph.D. International Affairs, Science and Technology, 2018
Dissertation: *On the Determinants of Military Technology Innovation and Diffusion*
Concentration: International Political Economy, Comparative Politics, Methods
GPA: 4.0

George Washington University
M.S. Finance, 2006
Thesis: "Investor Preferences and the Volatility Smile"

American University
B.A. Economics and International Affairs, 2003
Phi Beta Kappa, magna cum laude

RAND PUBLICATIONS

Jon Schmid, Bonnie L. Triezenberg, James Dimarogonas, Samuel Absher. "The Role of Standards in Fostering Capability Evolution: Does Design Matter? Insights from Interoperability Standards." Santa Monica, Calif.: RAND Corporation, RR-A1576-1, 2021.

Lauren A. Mayer, **Jon Schmid**, Sydney Litterer, and Marjory S. Blumenthal. "A Structured Elicitation Approach to Identify Technology-Based Challenges: With Application to Inform Force Planning for Technological Surprise." Santa Monica, Calif.: RAND Corporation, RR-A701-1, 2021.

Jon Schmid. "An Open-Source Method for Assessing National Scientific and Technological Standing: With Applications to Artificial Intelligence and Machine Learning." Santa Monica, Calif.: RAND Corporation, RR-A1482-3, 2021.

Joel B. Predd, **Jon Schmid**, Elizabeth M. Bartels, Jeffrey A. Drezner, Bradley Wilson, Anna Jean Wirth, Liam McLane. "Acquiring a Mosaic Force: Issues, Options, and Trade-Offs." Santa Monica, Calif.: RAND Corporation, RR-A458-3, 2021.

Benjamin M. Miller, David Metz, **Jon Schmid**, Paige M. Rudin, Marjory S. Blumenthal. “Measuring the Value of Invention: The Impact of Lemelson-MIT Prize Winners' Inventions.” Santa Monica, Calif.: RAND Corporation, RR-A838-1, 2021.

Jeffrey A. Drezner, **Jon Schmid**, Justin Grana, Megan McKernan, and Mark Ashby. “Benchmarking Data Use and Analytics in Large, Complex Private-sector Organizations: Implications for Department of Defense Acquisition.” Santa Monica, Calif.: RAND Corporation, RR-A225-1, 2020.

Katharina Best, **Jon Schmid**, Shane Tierney, Jalal Awan, Nahom Beyene, Maynard Holliday, Raza Khan, Karen Lee. “How to Analyze the Cyber Threat from Drones: Background, Analysis Frameworks, and Analysis Tools.” Santa Monica, Calif.: RAND Corporation, RR-2972-RC, 2020.

Bradley Martin, Danielle C. Tarraf, Thomas C. Whitmore, Jacob DeWeese, Cedric Kenney, **Jon Schmid**, and Paul DeLuca. “Advancing Autonomous Systems: An Analysis of Current and Future Technology for Unmanned Maritime Vehicles.” Santa Monica, Calif.: RAND Corporation, RR-2751-NAVY, 2019.

PEER-REVIEWED ARTICLES

Jon Schmid and Seokbeom Kwon. “Collaboration in innovation: An empirical test of Varieties of Capitalism.” *Technological Forecasting and Social Change*, Volume 157 (2020).

Jon Schmid and Ayodeji Fajebi. “Variation in patent impact by organization type: An investigation of government, university, and corporate patents.” *Science and Public Policy*, 46 (4), (2019): 589–598.

Jon Schmid. “The diffusion of military technology.” *Defence and Peace Economics*, 29(6), (2018): 595–613.

Jon Schmid, Sergey A Kolesnikov, Jan Youtie. “Plans versus experiences in transitioning transnational education into research and economic development: a case study.” *Science and Public Policy*, Volume 45 (1) (2018): 103–116.

Jon Schmid and Fei-Ling Wang. "Beyond National Innovation Systems: Incentives and China's Innovation Performance." *Journal of Contemporary China* 26, no. 104 (2017): 280-296.

Jon Schmid and Jonathan Huang. “State Adoption of Transformative Technology: Early Railroad Adoption in China and Japan.” *International Studies Quarterly*, Volume 61, Issue 3, (2017): 570–583

Jon Schmid, Matthew Brummer, and Mark Zachary Taylor. "Innovation and alliances." *Review of Policy Research* 34(5), (2017): 588-616.

Jon Schmid and Rahul Pathak. “The anatomy of collaboration in international development practice: comparative insights from Nigeria and Ghana.” *Development in Practice*, 27(4), (2017): 487-502.

PUBLICATIONS IN PROGRESS

Jon Schmid. “Is Military Technology Innovation Emergent? An Empirical Investigation into the Time Trend of Military Technology Innovation.” (under review at journal).

Patrick S. Roberts and **Jon Schmid.** “Insights into Innovation Acceleration: Case Studies of Government Innovation and Technology Acceleration Organizations.” (R&R at journal).

Edward Parker, Daniel Gonzales, Ajay Kochhar, Sydney Litterer, Kathryn O’Connor, **Jon Schmid,** Keller Scholl, Richard Silbergitt, Joan Chang, Christopher Eusebi, and Scott W. Harold. “An Assessment of the United States and Chinese Industrial Bases in Quantum Technology.” Santa Monica, Calif.: RAND Corporation. (under review, RR-A869-1).

Chad J. R. Ohlandt, David Shlapak, Alison K. Hottes, **Jon Schmid,** Sydne Newberry, Sarah Harting, Nathan Beauchamp-Mustafaga, Emily Ellinger, Daniel Tapia-Jimenez, Alice Shih, Benjamin Harris, Caroline Baxter, William Mackenzie, Nathaniel Edenfield, Michael Chase, Derek Grossman. “Measuring China’s Progress: Volume 1. A Framework for Assessing China’s Science and Technology Advances That Impact Military Capability.” (under review, PR-4832-OSD/1).

Chad J. R. Ohlandt, David Shlapak, Alison K. Hottes, **Jon Schmid,** Sydne Newberry, Sarah Harting, Nathan Beauchamp-Mustafaga, Emily Ellinger, Daniel Tapia-Jimenez, Alice Shih, Benjamin Harris, Caroline Baxter, William Mackenzie, Nathaniel Edenfield, Michael Chase, Derek Grossman. “Measuring China's Progress: Volume 2. Methods Behind the Framework and Complete Case Studies.” (under review, PR-4832-OSD/2).

OTHER PUBLICATIONS

Jon Schmid. "Intelligence Innovation: Sputnik, the Soviet Threat, and Innovation in the US Intelligence Community." In: Kosal, M. (Ed.) *Technology and the Intelligence Community*. Springer, 2018: 39-53.

Yin Li, Sergey Kolesnikov, Seokkyun Woo, Jon Schmid, Olufunke Adebola, Mark Z. Taylor, Jan Youtie, Philip Shapira, Juan Rogers. (2016). “International University Research Ventures (IURV): Findings from U.S. Universities.” *STIP Working Paper*.

Jon Schmid. (2016). “Scientometrics.” *The Encyclopedia of Big Data*. Ed. Laurie A. Schintler. Springer.

Jon Schmid. (2016). “International Development.” *The Encyclopedia of Big Data*. Ed. Laurie A. Schintler. Springer.

Jon Schmid. (2015). “Theory of Moral Sentiments.” *The SAGE Encyclopedia of Economics and Society*. Ed. F. Wherry. Sage Publications.

Thomas D. Boston and Jon Schmid. (2015) “Poverty Gap Index.” *The Encyclopedia of World Poverty*. Ed. M. Odekon. Sage Publications.

Thomas D. Boston and Jon Schmid. (2015) “Cash and In-kind Transfers.” The Encyclopedia of World Poverty. Ed. M. Odekon. Sage Publications.

CONFERENCE PRESENTATIONS

“Acquiring a Mosaic Force: Insights from an Acquisition Policy Wargame” paper presented at the Acquisition Research Symposium, May 12, 2021 (remote).

“Chinese UAV Development and Employment.” paper presented with Chad Ohlandt at the CAPS-RAND-NDU PLA Conference, November 30-December 1, 2018, RAND, Arlington, VA.

“The Determinants of Military Technology Innovation.” paper presented at the International Studies Association 2018 Annual Conference, April 5, 2018, San Francisco, California.

“On the Diffusion of Military Technology.” paper presented at International Studies Association 2017 Annual Conference, February 25, 2017, Baltimore, Maryland.

“Alliances and Innovation.” paper presented with Mark Z. Taylor at the Economics and Security Reconsidered workshop sponsored by *International Organization*, June 23-24, 2016, University of Pennsylvania.

“FDI Spillovers and Firm Productivity in India.” paper presented with Usha Nair-Reichert at the European Economics and Finance Society, June 13, 2016, Amsterdam, Netherlands.

“Security Alliances and National Innovative Productivity.” paper presented at International Studies Association 2016 Annual Conference, March 19, 2016, Atlanta, Georgia.

“State Response to Transformational Technology: Early Railroad Adoption in late Qing China and Meiji Japan.” paper presented at International Studies Association 2016 Annual Conference, March 18, 2016. Atlanta, Georgia.

“An Exploration of the Volatility of Technological Productivity.” paper presented at the IAC CRIDC Graduate Student Conference, January 30, 2015.

“Beyond National Innovation Systems: Incentives, Politics, Culture, and China's Innovation Performance.” paper presented at International Studies Association 2015 Annual Conference, February 21, 2015, New Orleans, Louisiana.

RESEARCH FELLOWSHIPS, GRANTS, AND AWARDS

Medal Award, Key Contributor, RAND Corporation, 2021

Medal Award, Key Contributor, RAND Corporation, 2019

Presidential Fellow, Georgia Institute of Technology, 2014-2018

Outstanding Graduate Student, Sam Nunn School of International Affairs, Georgia Institute of Technology, 2017-2018

Coca-Cola Fellow, 2014-2017

Bridging the Gap Fellow, New Era Foreign Policy Conference, American University, March 12-14, 2017

Sam Nunn Security Fellow, MacArthur Foundation's Science, Technology, and Security Initiative, 2015-2016

Leadership Education and Development (LEAD) Fellow, Georgia Institute of Technology, 2015-2016

First Place, Georgia Tech Ivan Allen Career, Research, and Innovation Development Conference (CRIDC) Paper Competition, 2016

Outstanding Graduate Student, Sam Nunn School of International Affairs, Georgia Institute of Technology, 2015-2016

COURSES TAUGHT

Georgia Institute of Technology

Instructor, American Government (Fall 2017)

Teaching Assistant, American Government (Fall 2013)

GUEST LECTURE/ INVITED TALKS

"Empirical Methods with Applications in Stata." Evaluating International Development Projects course, Georgia Institute of Technology, Fall 2015, Spring 2016, Fall 2016.

"Scientometrics: Theory and Applications." Scientific Perspectives on Global Problems course, Georgia State University, October 2016.

"Measurement of Poverty." Introduction to International Relations course, Georgia Institute of Technology, Summer 2016, Fall 2016.

ADDITIONAL PROFESSIONAL EXPERIENCE

Research Assistant, Dr. Thomas Boston, Professor of Economics, Georgia Institute of Technology (Spring 2014, Summer 2014, Fall 2014, Spring 2015, Summer 2015, Fall 2015)

Research Consultant, Lamont-Doherty Earth Observatory, Columbia University (October 2008 - March 2011)

Research Coordinator, Department of Finance & Economics, Columbia University (October 2007 - October 2008)

Associate, BG Consulting Inc. (December 2003 - December 2006)
Assignments as Consultant

- Legal Empowerment of the Poor – Poverty Reduction through Improved Asset Security, Formalization of Property Rights and the Rule of Law (USAID)
- Competitiveness Study of Peruvian Artesian Goods Sector and Identification of Barriers to Export Growth (Peru, Inter-American Development Bank)
- Investment Attraction Plan (Belize, Inter-American Development Bank)
- Capacity Building for Trade and Investment Promotion (Belize, Inter-American Development Bank)
- Regulatory Reform and Privatization (Bolivia, World Bank)

SKILLS

Language: Spanish (fluent)

Certification: NSF Tech to Teaching Certificate, Center for the Enhancement of Teaching and Learning, Georgia Institute of Technology

Programming: Stata, R, SAS, SPSS, Qualtrics survey tools, Gephi, In-Spire (text analysis)