

CONTACT INFORMATION

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Arlington, VA 22202

August, 2021
Email: bmiller@rand.org

EMPLOYMENT

2021-2024 *Quality Assurance Manager*, RAND Social and Economic Well-Being
2019-present *Economist*, RAND Corporation
2017-present *Professor*, Frederick S. Pardee RAND Graduate School
2015-2019 *Associate Economist*, RAND Corporation
2011, 2012 *Statistician*, U.S. Census Bureau, Social, Economic, and Housing Statistics Division

EDUCATION

2015 Ph.D., Economics, University of California, San Diego
2010 B.S. Economics Honors, Purdue University, With Distinction
Minors in Mathematics, Philosophy, & Political Science
University Honors Program Honors Diploma (<1% of graduating class)

RESEARCH LEADERSHIP

Total Project Led as PI: 6
Total Project Led as Co-PI: 4
Total Funding of Projects Led: \$4,340,759

PEER REVIEWED PUBLICATIONS

Miller, Benjamin M., David Metz, Jon Schmid, Paige M. Rudin, and Marjory S. Blumenthal, *Measuring the Value of Invention: The Impact of Lemelson-MIT Prize Winners' Inventions*. Santa Monica, CA: RAND Corporation, 2021. https://www.rand.org/pubs/research_reports/RRA838-1.html
Media Coverage: [Medium](#); [MIT News](#); [RAND Review](#)

Howard Shatz and **Benjamin Miller**. *Government Fiscal Capacity*. Ch 3 of *Recovery in the United States Virgin Islands: Progress, Challenges, and Options for the Future*. Available at https://www.rand.org/pubs/research_reports/RRA282-1.html
Media Coverage: [The Virgin Islands Daily News](#)

Tom LaTourrette, **Benjamin Miller**, Teddy Ulin, Kristin Van Able, Krista Langeland, and Nupur Nanda. *Public Buildings in Puerto Rico After Hurricane Maria: Pre-Storm Challenges, Hurricane Damages, and Suggested Courses of Action for Recovery*. Homeland Security Operational Analysis Center operated by the RAND Corporation, 2020.
https://www.rand.org/pubs/research_reports/RR2606.html

Jacob Heim and **Benjamin Miller**. *Measuring Power, Power Cycles, and the Risk of Great Power War in the 21st Century*. Santa Monica, CA: RAND Corporation, 2020.
https://www.rand.org/pubs/research_reports/RR2989.html

Miller, Benjamin M., Debra Knopman, Liisa Ecola, Brian Phillips, Moon Kim, Nathaniel Edenfield, Daniel Schwam, and Diogo Prosdocimi, *U.S. Airport Infrastructure Funding and Financing: Issues and Policy Options Pursuant to Section 122 of the 2018 Federal Aviation Administration Reauthorization Act*. Santa Monica, CA: RAND Corporation, 2020.

https://www.rand.org/pubs/research_reports/RR3175.html

Media Coverage: [American Journal of Transportation](#), [AviationPros](#), [The Bond Buyer](#) (twice), [Eno Center for Transportation](#), [The Hill](#), [Morning Consult](#), [Politico](#), [Reason Foundation](#)

Anu Narayanan, Jonathan W. Welburn, **Benjamin M. Miller**, Sheng Tao Li, and Aaron Clark-Ginsberg. *Deterring Attacks Against the Power Grid: Two Approaches for the U.S. Department of Defense*. Santa Monica, CA: RAND Corporation, 2020.

https://www.rand.org/pubs/research_reports/RR3187.html

Media Coverage: [The Gazette](#)

Relevant Legislative Action: [\(bill\) Guaranteeing Resilient Installations for Defense Act of 2020](#)

Benjamin Miller, David Metz, Troy Smith, and Jesse Lastunen. *Selecting and Evaluating Case Studies of the Economic Benefits of Research and Services at the National Institute for Occupational Safety and Health: Case Studies on Personal Dust Monitors for Coal Miners, Improved Ambulance Design, and Amputation Surveillance*. Santa Monica, CA: RAND Corporation, 2020.

https://www.rand.org/pubs/research_reports/RR4201.html

Media Coverage: [NIOSH Science Blog](#)

Sarah Weiland, Aaron Strong, and **Benjamin Miller**. *Incorporating Resilience into Transportation Planning and Assessment*. Santa Monica, CA: RAND Corporation, 2019.

https://www.rand.org/pubs/research_reports/RR3038.html

Media Coverage: [InfrastructureUSA](#)

Anu Narayanan, Debra Knopman, Kristin van Abel, and **Benjamin Miller** with Nicholas Burger, Martha Merrill, Alex Rothenberg, Luke Muggy, and Patrick Mills. *Valuing Air Force Electric Power Resilience: A Framework for Mission-level Investment Prioritizations*. Santa Monica, CA: RAND Corporation, 2019. https://www.rand.org/pubs/research_reports/RR2771.html

Miller, Benjamin M., Lloyd Dixon, and Noreen Clancy. “Reasonable and Risk-Based? Replacing NFIP Generally Subsidized Rates with a Means-Tested Subsidy.” *Southern Economics Journal* Vol. 85, Issue 4 (2019) <https://onlinelibrary.wiley.com/doi/full/10.1002/soej.12329>

Lane F. Burgette, Jodi L. Liu, **Benjamin M. Miller**, Barbara O. Wynn, Stephanie Dellva, Rosalie Malsberger, Katie Merrell, PhuongGiang Nguyen, Xiaoyu Nie, Joseph D. Pane, Nabeel Qureshi, Teague Ruder, Lan Zhao, and Peter S. Hussey. *Practice Expense Methodology and Data Collection Research and Analysis*. Santa Monica, CA: RAND Corporation, 2018.

https://www.rand.org/pubs/research_reports/RR2166.html

Miller, Benjamin M. “The Not-so Marginal Value of Weather Warning Systems.” *Weather, Climate, and Society* Vol. 10, no. 1 (2018) <http://journals.ametsoc.org/doi/pdf/10.1175/WCAS-D-16-0093.1>

Miller, Benjamin M., David Metz, Troy D. Smith, Jesse Lastunen, Eric Landree, and Christopher Nelson. *Understanding the Economic Benefit Associated with Research and Services at the National Institute for Occupational Safety and Health*. Santa Monica, CA: RAND Corporation, 2017. https://www.rand.org/pubs/research_reports/RR2256.html

Media Coverage: [NIOSH Science Blog](#), [New York City Fire Department](#)

Knopman, Debra, Martin Wachs, **Benjamin M. Miller**, Scott G. Davis and Katherine Pfrommer. *Not Everything Is Broken: The Future of U.S. Transportation and Water Infrastructure Funding and Finance*. Santa Monica, CA: RAND Corporation, 2017.

https://www.rand.org/pubs/research_reports/RR1739.html

Media Coverage: [C-SPAN](#), [Engineering 360](#), [New Geography](#), [New York Times](#), [Newsmax](#), [Opportunity Washington](#), [Pittsburgh Post-Gazette](#), [Politico](#), [Reason Foundation](#), [Roads&Bridges](#), [Route Fifty](#), [Transportation Today](#), [Urban Institute](#), [Vox](#), [WaterWired](#)

Narayanan, Anu, Debra Knopman, James D. Powers, Bryan Boling, **Benjamin M. Miller**, Patrick Mills, Kristin Van Abel, Katherine Anania, Blake Cignarella and Connor P. Jackson. *Air Force Installation Energy Assurance: An Assessment Framework*. Santa Monica, CA: RAND Corporation, 2017. https://www.rand.org/pubs/research_reports/RR2066.html

Miller, Benjamin M., Frank Camm, Marjory S. Blumenthal, Jesse Lastunen and Kenneth W. Miller. *Inching Toward Reform: Trump's Deregulation and Its Implementation*. Santa Monica, CA: RAND Corporation, 2017. <https://www.rand.org/pubs/perspectives/PE241.html>

Dixon, Lloyd, Noreen Clancy, **Benjamin M. Miller**, Sue Hoegberg, Michael M. Lewis, Bruce Bender, Samara Ebinger, Mel Hodges, Gayle M. Syck, Caroline Nagy and Scott R. Choquette. *The Cost and Affordability of Flood Insurance in New York City: Economic Impacts of Rising Premiums and Policy Options for One- to Four-Family Homes*. Santa Monica, CA: RAND Corporation, 2017. https://www.rand.org/pubs/research_reports/RR1776.html

Media Coverage: [Financial Regulation News](#), [New York City](#), [New York Times](#), [Nonprofit Quarterly](#), [Occupational Health & Safety](#), [Phys.org](#), [StreetEasy](#), [Waterfront Alliance](#)

Mulcahy, Andrew W., Kandice A. Kapinos, Brian Briscombe, Lori Uscher-Pines, Ritika Chaturvedi, Spencer R. Case, Jakub P. Hlavka and **Benjamin M. Miller**. *Toward a Sustainable Blood Supply in the United States: An Analysis of the Current System and Alternatives for the Future*. Santa Monica, CA: RAND Corporation, 2016.

https://www.rand.org/pubs/research_reports/RR1575.html

Media Coverage: [Bloodbuy](#), [Health Care Law Today](#), [The Hematologist](#), [Medical Laboratory Observer](#), [Transfusion News](#)

Miller, Benjamin M., and Kevin J. Mumford. "The Salience of Complex Tax Changes: Evidence from the Child and Dependent Care Credit Expansion." *National Tax Journal* Vol. 68, no. 3 (2015)

<https://www.ntanet.org/NTJ/68/3/>

Media Coverage: [County Health Ranking & Roadmaps](#)

Miller, Ben, and Michael Watts. “Oh, the Economics You’ll Find in Dr. Seuss!” *The Journal of Economic Education* Vol. 42, no. 2 (2011)
<http://www.tandfonline.com/doi/abs/10.1080/00220485.2011.555717>
Media Coverage: [The Incidental Economist](#), [The New York Times \(Economix\)](#), [Vancouver Sun](#)

OTHER ACADEMIC PUBLICATIONS

Knopman, Debra, Martin Wachs, **Benjamin Miller**, Scott Davis, and Katherine Pfrommer. “Renewing America’s Infrastructure: An Agenda for Federal Transportation and Water Policy.” *Public Works Management & Policy* (2018) <https://doi.org/10.1177/1087724X18789703>

Smart, Alan, Andrew Coote, **Ben Miller**, and Richard Bernknopf. *A Review of Socioeconomic Evaluation Methods and Techniques*. Ch. 10 of *GEOValue: The Socioeconomic Value of Geospatial Information*, eds. Jamie Kruse, Joep Crompvoets, and Jay Pearlman (2017)
<https://www.crcpress.com/GEOValue-The-Socioeconomic-Value-of-Geospatial-Information/Kruse-Crompvoets-Pearlman/p/book/9781498774512>

COMMENTARY & TESTIMONY

Miller, Benjamin “Funding and Financing Infrastructure at U.S. Airports: Overview of the 2020 RAND Report Recommendations.” *Testimony presented before the Senate Commerce, Science, and Transportation Committee, Subcommittee on Aviation Safety, Operations, and Innovation on June 23, 2021*. <https://www.rand.org/pubs/testimonies/CTA1471-1.html>

Knopman, Debra and **Benjamin Miller**, “To implement an infrastructure overhaul, we need to address the devil in the details.” *The Hill* (2021) <https://thehill.com/opinion/energy-environment/554614-to-implement-an-infrastructure-overhaul-we-need-to-address-the>

Miller, Benjamin, “Suggestions to help EPA Successfully Implement Retrospective Reviews.” *Legal Planet* (2018) <http://legal-planet.org/2018/07/18/guest-blogger-benjamin-miller-suggestions-to-help-epa-successfully-implement-retrospective-reviews/>

Miller, Ben. *Disastrous Ideas* (<https://disastrousideas.wordpress.com/>, my blog about the economics of weather and natural disasters) (2013-2015)

Miller, Ben. “Saving the Environment: Why do we do it?” *Wetland Matters*, No. 127 (2007)
http://www.oxbowinc.org/PDFs/Issue_127.pdf

WORK IN PROGRESS & WORK UNDER REVIEW

Benjamin Miller, Tom LaTourrette, Drake Warren, and Dave Metz. *The Benefits of NIST’s Impact on Fire Safety Standards* (under review)

WORKING PAPERS

Michelle Miro, David Groves, David Catt, and **Benjamin Miller**. *Estimating Future Water Demand for San Bernardino Valley Municipal Water District*
https://www.rand.org/pubs/working_papers/WR1288.html

Benjamin Miller. *Does Validity Fall from the Sky? Observant Farmers and the Endogeneity of Rainfall*

TEACHING

Professor, Pardee RAND Graduate School, 2017. Advanced Econometrics II: Applied Non-Linear Modeling

Teaching Assistant, University of California, San Diego, 2010-2015. Applied Data Analysis and Statistical Decision Making; Econometrics; Public Policy; Public Economics: Expenditure; Labor Economics; Economics of Health Providers; Economic Development; Intermediate Microeconomics; Principles of Microeconomics

GRANTS, SCHOLARSHIPS, AWARDS, AND HONORS

- 2020 *RAND Bronze Medal Award*, for “U.S. Airport Infrastructure Funding and Financing: Issues and Policy Options Pursuant to Section 122 of the 2018 Federal Aviation Administration Reauthorization Act”
- 2019 *RAND Medal Award, Key Contributor*, for contributions as sector co-leader for the “Puerto Rico Recovery Plan - Public Buildings Sector”
- 2019 *RAND Spotlight Award*, for supporting Economics, Sociology, and Statistics recruitment
- 2017 *RAND Medal Award, Key Contributor*, for contributions to the report “Toward a Sustainable Blood Supply in the United States: An Analysis of the Current System and Alternatives for the Future”
- 2014 *Travel Support*, NSF and National Center for Atmospheric Research (NCAR)
- 2014 *Invited Participant*, WEAI Graduate Student Workshop
- 2013 *Best Paper Award*, 5th European Association of Agricultural Economists PhD Symposium
- 2013 *Teaching Assistant Excellence Award*, UCSD Department of Economics
- 2013 *Research Travel Grant*, Center for Environmental Economics, UCSD
- 2013 *Research Travel Grant*, Dean’s Office, UCSD Division of Social Sciences
- 2013-2014 *SPREAD Fellow*, Studies of Precipitation, flooding, and Rainfall Extremes Across Disciplines
- 2010, 2013 *Graduate Student Travel Grant*, UCSD Department of Economics
- 2010 *Tuition Scholarship*, UCSD Department of Economics
- 2010 *South Korea Scholarship*, Council on International Educational Exchange
- 2008 *Distinguished Scholar*, The Fund for American Studies Engaliftcheff Institute on Comparative Political and Economic Systems
- 2007 *Margaret Moan Rowe Honor Scholarship*
- 2006-2010 *Academic Scholarship*, Purdue University
- 2006-2007 *Liberal Arts Dean’s Scholar*, Purdue University

ADVISING & MENTORING

*Note: This list includes graduate students for whom I served on their dissertation committee (indicated with a *), as well as those that meet all of the following criteria: (i) We have worked together, (ii) I have provided academic or career advice outside of our scope of work, and (iii) I have written a letter of recommendation or served as a reference. Advisee role, placement, and year of graduation/departure from RAND are indicated in parenthesis. I am very proud of each of these individuals!*

Kyle Haak (Pardee RAND Graduate Student*; Current Student)

Alejandro Becerra (Pardee RAND Graduate Student*; Current Student)

Jesse Lastunen (Pardee RAND Graduate Student; United Nations University - World Institute for Development Economics Research; 2020)

Teddy Ulin (Research Assistant; University of Michigan Law School; 2019)

Undergraduate Mentoring:

Purdue Honors Pathways Program (2018)

The Fund for American Studies (2016-2017)

PRESENTATIONS & PROFESSIONAL SERVICE

Referee:

Journal of Economic Education, Journal of Economics Teaching, Journal of Regional Science, National Tax Journal, Natural Hazards, Oxford Encyclopedia of Politics, RAND, Security Journal

Panelist:

Transportation Research Board (2019); Hamilton Project, Brookings (2018, 2019); NSF (2017); Tax Policy and Health Expert Panel, AcademyHealth (2016)

External Presentations:

2021: The Society for Standards Professionals; Senate Subcommittee on Aviation Safety, Operations, and Innovation; HEC Paris (pending)

2020: Defense Innovation Network; UTHealth: How will the future of work shape research issues, methods and applications?; Council of Economic Advisers

2018: Office of the Chief of Army Reserve (OCAR) Program Analysis and Evaluation (PA&E) Operations Research / Systems Analysis (FA49) Symposium

2017: RAND Center for Corporate Ethics & Governance Advisory Board; RAND Justice, Infrastructure, and Environment Board; RAND Institute for Civil Justice Board

2016: GEOValue - Data to Decisions: Valuing the Societal Benefit of Geospatial Information; Southern Economic Association Annual Meeting; American Geophysical Union Fall Meeting

2015: American Meteorological Society 95th Annual Meeting, Third Symposium on Building a Weather Ready Nation; Bureau of Economic Analysis; University of South Carolina; RAND Corporation; Federal Trade Commission; Bureau of Labor Statistics; Economic Research Service; U.S. Treasury; University of New Hampshire; East Carolina University; Cornerstone Research; BREN Occasional Workshop in Environmental and Resource Economics; Southern Economic Association Annual Meeting

2014: Purdue University; Western Economics Association Graduate Student Dissertation Workshop; Studies of Precipitation, flooding, and Rainfall Extremes Across Disciplines (SPREAD); World Weather Open Science Conference

2013: Pacific Conference on Development Economics; 5th European Association of Agricultural Economists PhD Workshop; Belpasso International Summer School on Environmental and Resource Economics – Financing Disaster Risk Reduction and Climate Adaptation

2010: National Tax Association's 103rd Annual Conference on Taxation

2008: Annual Conference of the Council for Economic Education