

R. ABRAHAM HOLLAND

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COST ANALYSIS AND RESEARCH DIVISION • INSTITUTE FOR DEFENSE ANALYSES

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<https://abrahamholland.github.io/personal-website/>

EDUCATION

09/2013 – 6/2019	HARVARD KENNEDY SCHOOL OF GOVERNMENT <i>Doctorate in Public Policy</i> • Research Interests: climate security, public service delivery, cost estimation	Cambridge, MA
06/2005 – 06/2008	DARTMOUTH COLLEGE Bachelor of Arts in Economics and Chinese, Summa Cum Laude	Hanover, NH
08/1999 - 08/2003	COMMUNITY COLLEGE OF THE AIR FORCE Associates of Science in Aerospace Maintenance Technology	Shreveport, LA

POLICY PUBLICATIONS

- “Independent Evaluation of the National Oceanic and Atmospheric Administration’s National Weather Service Tornado Forecasting and Warning Services” with Jennifer L. Bewley, et al. Report 3002824. Alexandria, VA: Institute for Defense Analyses, May 2025.
- “Adapting Department of Defense Training Based on a Changing Climate in the Arctic” with Jennifer L. Bewley, et al. Report 3003635. Alexandria, VA: Institute for Defense Analyses, December 2024.
- “Adapting Department of Defense Training Based on a Changing Climate” with Jennifer L. Bewley, et al. Report D-33459. Alexandria, VA: Institute for Defense Analyses, February 2024.
- “Navigating The Greenhouse Gas Accounting Regulatory Environment for Federal Contractors and the Department of Defense” with Hannah L. Kirk, et al. White Paper 3000771. Alexandria, VA: Institute for Defense Analyses, February 2024.
- “An Analysis of Alternatives for Subterranean Training Facilities” with Caroline Earle, et al. Report 3000608. Alexandria, VA: Institute for Defense Analyses, October 2023.
- “Don't Bug Me: Climate change, pathogenic disease, and operational military medicine” with Matthew S. Goldberg, et al. Report 3000293. Alexandria, VA: Institute for Defense Analyses, September 2023.
- “Key Empirical Trends in the Military Health System since the COVID-19 Pandemic” with Sarah K. John, et al. Report 3000292. Alexandria, VA: Institute for Defense Analyses, September 2023.
- “Medical Personnel Recruitment and Retention Trends Since the COVID-19 Pandemic” with Cullen A. Roberts, et al. Report 3000294. Alexandria, VA: Institute for Defense Analyses, September 2023.
- “Climate Change and Future Space Operations” with Matthew A. Hallex, et al. Report 3000651. Alexandria, VA: Institute for Defense Analyses, March 2023.
- “Cost Estimate Growth and Cost Growth in NNSA Capital Acquisition Projects” with David M. Tate, et al. Report P-33382. Alexandria, VA: Institute for Defense Analyses, March 2023.

- “NDAA-21 Section 731 Element Review: External Observations and Implications” with Jamie M. Lindly, et al. Report D-22741. Alexandria, VA: Institute for Defense Analyses, April 2022.
- “Veterans Affairs Electronic Health Record Modernization Quality Assurance Review” with Robert D. Hirt, et al. Report P-20458. Alexandria, VA: Institute for Defense Analyses, February 2021.
- “Analysis of a Salary-Based Pay System for the Quadrennial Review of Military Compensation” with Joseph F. Adams, et al. Report 13204. Alexandria, VA: Institute for Defense Analyses, September 2020.
- “Training Days and Retention in the Army National Guard” with Nancy M. Huff, et al. Report P-13133. Alexandria, VA: Institute for Defense Analyses, May 2020.
- “Microfinance: Points of Promise” with Erica Field and Rohini Pande. In *Evolving Approaches to the Economics of Public Policy*, edited by Jean Kimmel. Kalamazoo, MI: W.E. Upjohn Institute for Employment Research, November 2016.

ACADEMIC PUBLICATIONS

- “Water, Health and Wealth: The Impact of Piped Water Outages on Disease Prevalence and Financial Transactions in Zambia,” with Nava Ashraf, Edward Glaeser, and Bryce Millett Steinberg. *Economica* 88 no. 351 (July 2021): 755-781.

WORKS IN PROGRESS

- “Why Give Up the Ability to Choose? Community Engagement and Surprising Lottery Preferences in Nepal,” with Bishma K. Bhusal and Prashant Bhandari. Manuscript in progress, to be submitted in 2025.

PRESENTATIONS AND POSTERS

- “Changing C-17 Operational Performance” with Jennifer L. Bewley. DoD Resource Competition, Environmental Security and Stability (RECESS) Community of Practice, May 2025.
- “High, Hot, and Humid: On the Impacts of Extreme Conditions on Aviation” with Cameron, Liang and Jennifer L. Bewley. Dataworks 2025. Institute for Defense Analyses, March 2025.
- “Examining the Impact of Future Environmental Conditions on Operational Resilience and Efficiency of Key Warfighting Platforms: Challenges and Lessons Learned” with Jennifer L. Bewley et al. American Geophysical Union, December 2024.
- “Adapting DoD Training Based on a Changing Climate” with Jennifer L. Bewley, et al. Western Economic Association International (WEAI) Conference, July 2023; West Point International Security Seminar, February 2024; Innovations in Climate Resilience (ICR) Symposium, April 2024.
- “Projecting Aircraft Performance Using Regional Climate Data” with Jennifer L. Bewley and Astrid I. Berge. Institute for Defense Analyses Dataworks 2023, March 2023; SERDP-ESTCP Symposium, November 2023.
- “Potential Operational, Infrastructure, and Strategic Implications of Changes in Heat and Humidity” with Jennifer L. Bewley, et al. SERDP/ESTCP Symposium, December 2021.

SELECTED GRANTS AND HONORS

- IDA Climate and Energy Security Working Group, Founding Co-Lead 2021-Current
- IDA Social Science Analytics Working Group, Co-Lead 2021-2024

▪ Panel co-chair at the Military Operations Research Society (MORS) special meeting on the analytical implications of climate change and extreme events for national security	2022
▪ The J-PAL Governance Initiative, Pilot Research Grant Awardee	2017
▪ The CEGA-Visa Financial Inclusion Lab, Pilot Grant Awardee	2017
▪ Affiliated Graduate Student, Institute for Quantitative Social Sciences	2017
▪ International Growth Center, Co-Investigator, Project Grant Awardee	2015
▪ The Lynde and Harry Bradley Foundation, Bradley Fellowship	2015
▪ Harvard Graduate School of Arts and Sciences Pre-dissertation Fellowship	2015
▪ Harvard Kennedy School, Vicki Norberg-Bohm Fellowship	2015
▪ National Science Foundation (NSF) Graduate Research Fellowship	2015
▪ NBER Entrepreneurship Research Boot Camp, Participant	2014

SERVICE AND AFFILIATIONS

- Referee, *Journal of Economic Geography*, *Journal of Urban Economics*, *Economica*
 - Member, American Economic Association (AEA), Association for the Advancement of Cost Engineering International (AACEI), Economics of National Security Association (ENSA)
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RELATED PROFESSIONAL EXPERIENCE

08-2019 – Current **INSTITUTE FOR DEFENSE ANALYSES** Alexandria, Virginia

Research Staff Member, Cost Analysis and Research Division

- Lead research on a range of defense labor, readiness, COVID-19, and cost modeling topics

08/2011 – 05/2013 **CENTER FOR MICRO FINANCE** Chennai, India

Program Head, Impact Evaluation Unit

- Oversaw operations of 3 different evaluations valued at over \$2,500,000 and 100 personnel

BRIDGEWATER ASSOCIATES

Westport, CT

09/2010 – 06/2011 ***Chief of Staff, Core Management***

- Oversaw day-day management of over \$28,000,000 of company operations
- Led multiple department-level strategic redesign efforts totaling \$14,000,000 annually

10/2009 – 09/2010 ***Manager, Trading Analytics***

- Assisted development of a strategic plan, leading to the creation of a 20-person team
- Created bespoke project management design across entire portfolio of research projects

09/2008 – 10/2009 ***Project Manager, Research Analytics***

- Improved and oversaw the operation of critical aspects of Bridgewater's proprietary trading process, directly impacting the allocation of over \$50,000,000,000 in capital
- Implemented customized protection program for high-value trade secret trading algorithms

08/1999 - 08/2003 **CREW CHIEF, SENIOR AIRMAN, UNITED STATES AIR FORCE**

20TH BOMB SQUADRON, B-52H BOMBERS

Shreveport, LA

Aircraft Maintenance Technician

- Selected as member of first-wave rapid deployment in support of post-9/11 combat operations
 - Recognized as one of the youngest assigned crew chiefs during combat operations
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TEACHING AND MENTORING

- API-202I: Empirical Methods II, Harvard Kennedy School Winter, 2018
Teaching Fellow for Professor Anders Jensen
- DEV-325M: Policy and Bureaucracy: Opening the Black box of Governance Winter, 2018
Teaching Fellow for Professor Adnan Khan
- Rethinking Financial Inclusion, Harvard Kennedy School Winter, 2016
Teaching Fellow for Professor Rohini Pande and Asim Khwaja

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| ▪ Randomization, Sampling, and Analysis Threats, IPA/J-PAL
<i>Executive Education Instructor</i> | Summer, 2015 |
| ▪ Rethinking Financial Inclusion, Harvard Kennedy School
<i>Teaching Fellow for Professor Rohini Pande and Asim Khwaja</i> | Winter, 2014 |
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INTERNATIONAL RESEARCH AND STUDY

- Ph.D. fieldwork in Kenya, Zambia, and Nepal
 - Fieldwork for the Centre for Microfinance in Tamil Nadu, India (August, 2011 to May, 2013)
 - Undergraduate internship for Synovate Business Consulting in Shanghai, China (April to June, 2006) and U.S. Olympic Committee Volunteer in Beijing, China (July to August, 2008)
 - Study at Oxford University, England (September to December 2007) and Fudan University in Shanghai, China (September to December 2004)
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SKILLS

- Proficient in statistical analysis and software (R, Stata, Python)
 - Proficient in spatial analysis and related software (QGIS, ArcGIS)
 - Basic use of distributed computation platforms and environmental data structures (NetCDF, HDF5)
 - Certified user of DoD's Defense Readiness Reporting System (DRRS)
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PERSONAL

Proficient in Mandarin Chinese, U.S. Citizen. Top Secret Sensitive Compartmentalized Information security clearance.