

R. ABRAHAM HOLLAND

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COST ANALYSIS AND RESEARCH DIVISION • INSTITUTE FOR DEFENSE ANALYSES

730 EAST GLEBE ROAD • ALEXANDRIA, VA 22305

EDUCATION

09/2013 – 6/2019	HARVARD KENNEDY SCHOOL OF GOVERNMENT <i>Doctorate in Public Policy</i> <ul style="list-style-type: none">• Research Interests: climate security, applied microeconomics, public service delivery, cost estimation• Dissertation: “<i>Essays in Development Economics</i>”	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.
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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.
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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.
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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.
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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
▪ 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

TEACHING AND MENTORING

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

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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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
	<i>Research Staff Member, Cost Analysis and Research Division</i>	
	▪ 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
	<i>Program Head, Impact Evaluation Unit</i>	
	▪ 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

PERSONAL

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