

JACOB N. SHAPIRO

CURRICULUM VITAE – January 2019

Woodrow Wilson School
Department of Politics
Princeton University
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Positions

Professor of Politics and International Affairs, Princeton, 2016-
Associate Professor of Politics and International Affairs, Princeton, 2014-2016
Assistant Professor of Politics and International Affairs, Princeton, 2008-2014
Co-Director, Empirical Studies of Conflict Project, 2009-Present

Education

Ph.D., Stanford University, Department of Political Science, October 2007.
M.A., Stanford University, Economics Department, August 2007.
B.A. with Honors, University of Michigan, Department of Political Science, May 1997.

Books

Small Wars, Big Data: The Information Revolution in Modern Conflict. With Eli Berman and Joseph H. Felter. Princeton University Press (2018).

Foundations of the Islamic State: Management, Money, and Terror in Iraq. With Patrick Johnston, Howard J. Shatz, Benjamin Bahney, Danielle F. Jung, Patrick K. Ryan, and Jonathan Wallace. RAND Corporation (2016).

The Terrorist's Dilemma: Managing Violent Covert Organizations. Princeton University Press (2013). Winner 2013 Furniss Book Award.

Peer-Reviewed Articles

31. “Damaging Democracy? Security Provision and Turnout in Afghan Elections,” With Luke N. Condra, Michael Callen, Radha K. Iyengar, and James D. Long. *Economics and Politics* (Forthcoming).

30. “Historical Contingencies in the Evolution of States and Their Militaries.” With Jonathan Bendor. *World Politics* (2019) 71: 126-161.

29. “Endogenous taxation in ongoing internal conflict: The case of Colombia.” With Abbey Steele and Juan F. Vargas. *American Political Science Review* (2018) 112: 996-1015.

28. "Terrorism, geopolitics, and oil security: Using remote sensing to estimate oil production of the Islamic State." With Quy-Toan Do, Christopher D. Elvidge, Mohamed Abdel-Jelil, Daniel P. Ahn, Kimberly Baugh, Jamie Hansen-Lewis, Mikhail Zhizhin, and Morgan D. Bazilian. *Energy Research and Social Science* (2018)
27. "Building Connections: Political Corruption and Road Construction in India." With Jonathan Lehne, and Oliver Vanden Eynde. *Journal of Development Economics* (2018) 131: 62-78.
26. "The Effect of Civilian Casualties on Wartime Informing: Evidence from the Iraq War." With Andrew Shaver. *Journal of Conflict Resolution* (Forthcoming).
25. "International Law and Voter Preferences: The Case of Foreign Human Rights Violations." With Tonya L. Putnam. *Human Rights Review* (2017).
24. "Natural Disasters and Political Engagement: Evidence from the 2010-11 Pakistani Floods." With C. Christine Fair, Patrick Kuhn, and Neil Malhotra. *Quarterly Journal of Political Science* (2017) 12(1), 99-141.
23. "Limiting Civilian Casualties as Part of a Winning Strategy: The Case of Courageous Restraint." With Joseph H. Felter. *Daedalus* (2017) 146(1), 44-58.
22. "Lessons from America's post-9/11 Wars." With Christoph Mikulaschek. *Journal of Conflict Resolution* (2016) 1-29.
21. "Relative Poverty, Perceived Violence, and Support for Militant Politics: Evidence from Pakistan." With C. Christine Fair, Rebecca Littman, and Neil Malhotra. *Political Science Research and Methods* (2016) 1-25.
20. "An Empirical Validation Study of Popular Survey Methodologies for Sensitive Questions." With Bryn R. Rosenfeld and Kosuke Imai. *American Journal of Political Science* (2015) 60(3), 783-802.
19. "Coordination and Security: How Mobile Communications Affect Insurgency." With David A. Siegel. *Journal of Peace Research* (2015) 52(3), 312-322.
18. "Measuring Political Violence in Pakistan: Insights from the BFRS Dataset." With Ethan Bueno de Mesquita, C. Christine Fair, Jenna Jordan, and Rasul Bakhsh Rais. *Conflict Management and Peace Science* (2015) 32(5), 536 - 558.
17. "Is the Phone Mightier than the Sword? Cell Phones and Insurgent Violence in Iraq." With Nils B. Weidmann. *International Organization* (2015) 69(2), 247-274.

16. "Democratic Values and Support for Militancy: Evidence From a National Survey of Pakistan." With C. Christine Fair and Neil Malhotra. *Journal of Conflict Research* (2014) 58(5), 743-770.
15. "Poverty and Support for Militant Politics: Evidence from Pakistan." With Graeme Blair, C. Christine Fair, and Neil Malhotra. *American Journal of Political Science* (2013) 57(1), 30-48.
14. "Terrorist Decision-Making: Insights from Economics and Political Science." *Perspectives on Terrorism* (2012) 6(4-5), 5-16. Lead article.
13. "Faith or Doctrine? Religion and Support for Political Violence in Pakistan." With Neil Malhotra and C. Christine Fair. *Public Opinion Quarterly* (2012) 76(4), 688-720.
12. "Testing the Surge: Why did Violence Decline in Iraq in 2007?" With Stephen Biddle and Jeffrey A. Friedman. *International Security* (2012) 37(1), 7-40. Lead article.
11. "Moral Hazard, Discipline, and the Management of Terrorist Organizations." With David A. Siegel. *World Politics* (2012) 64(1), 39-78.
10. "Who Takes the Blame? The Strategic Effects of Collateral Damage." With Luke N. Condra. *American Journal of Political Science* (2012) 56(1), 167-187.
9. "Can Hearts and Minds be Bought? The Economics of Counterinsurgency in Iraq." With Eli Berman and Joseph H. Felter. *Journal of Political Economy* (2011) 119(4), 766-819.
8. "Statistical Analysis of Endorsement Experiments: Measuring Support for Militant Groups in Pakistan." With Will Bullock and Kosuke Imai. *Political Analysis* (2011) 19(4), 363-384. Lead article.
7. "Do Working Men Rebel? Insurgency and Unemployment in Afghanistan, Iraq, and the Philippines." With Eli Berman, Michael Callen, and Joseph H. Felter. *Journal of Conflict Resolution* (2011) 55(4), 496-528.
6. "Why Support Islamic Militancy? Evidence from Pakistan." With C. Christine Fair. *International Security* (2010) 34(3), 79-118.
5. "Is This Paper Dangerous? Balancing Secrecy and Openness in Counterterrorism." With David A. Siegel. *Security Studies* (2010) 19(1), 66-98.
4. "Islam, Militancy and Politics in Pakistan: Insights from a National Sample." With C. Christine Fair and Neil Malhotra. *Terrorism and Political Violence* (2010) 22(4), 495-521.

3. "Fuzzy Set Modeling of Insurgent Networks." With Richard Avila. *Military Operations Research* (2008) 13(3), 41-50.
2. "Color-Bind: Lessons from the Failed Homeland Security Advisory System." With Dara K. Cohen. *International Security* (2007) 32(2), 121-154.
1. "Underfunding in Terrorist Organizations." With David A. Siegel. In *International Studies Quarterly* (2007) 51(2), 405-429.

Non-Peer-Reviewed Articles

7. "America and Its Counterterrorism Partners: A Principal-Agent Relationship." Book review roundtable on Stephen Tankel's *With Us and Against Us*. *Texas National Security Review* (2018).
6. "A Predictable Failure: The Political Economy of the Decline of the Islamic State." *CTC Sentinel* (2016) 9(9), 28-32.
5. "Understanding the Daesh Economy." With Jamie Hansen-Lewis. *Perspectives on Terrorism* (2015) 9(4), 142-155.
4. "Correspondence: Assessing the Synergy Thesis in Iraq." With: John Hagan, Joshua Kaiser, and Anna Hanson; Jon R. Lindsay and Austin G. Long; and Stephen Biddle, Jeffrey A. Friedman. *International Security* (2013) 37(4), 173-198.
3. "Modest, Secure and Informed: Successful Development in Conflict Zones." With Eli Berman, Joseph H. Felter, and Erin Troland. *American Economic Review: Papers and Proceedings* (2013) 103(3), 518-522. Longer version as NBER Working Paper 18674.
2. "Insurgent Compensation: Evidence from Iraq." With Benjamin W. Bahney, Radha K. Iyengar, Patrick B. Johnston, Danielle F. Jung, and Howard J. Shatz. *American Economic Review: Papers and Proceedings* (2013) 103(3), 512-517.
1. "Tortured Relations: Human Rights Abuses and Counterterrorism Cooperation." With Emilie Hafner-Burton. *PS: Political Science* (2010) 43(3), 415-419.

Book Chapters

7. "Formal Approaches to the Study of Terrorism." In *The Oxford Handbook of Terrorism*. Erica Chenoweth, Richard English, Andreas Gofas, and Stathis N. Kalyvas, eds. Oxford, U.K.: Oxford University Press, 2019.
6. "Subcontracting State-Building." With Abbey Steele. In *Rebels and Legitimacy: Processes and Practices*. Isabelle Duyvesteyn ed. London: Routledge, 2018.
5. "Non-state actors and failed states: Lessons from al-Qa'ida's Experiences in the Horn of Africa." With Ken Menkhaus. In *Ungoverned Spaces: Alternatives to State Authority*

in an Era of Softened Sovereignty. Anne L. Clunan and Harold Trinkunas, eds. Palo Alto, C.A.: Stanford University Press, 2010.

4. "Bureaucratic Terrorists: Al-Qa`ida in Iraq's Management and Finances." In *Sinjar Two: al-Qa`ida in Iraq's Foreign Recruiting, Finances, and Future*. Brian Fishman and Assaf Moghadam, eds. Westpoint, N.Y.: Combating Terrorism Center, 2008.

3. "The Sources of Terrorism: An Ecological and Organizational Perspective." With David D. Laitin. In *Terrorism, Economic Development, and Political Openness*. Philip Keefer and Norman Loayza, eds. New York: Cambridge University Press, 2008.

2. "Terrorist Organizations' Vulnerabilities and Inefficiencies: A Rational Choice Perspective." In *Terrorist Financing in Comparative Perspective*. Harold Trinkunas and Jeanne K. Giraldo, eds. Stanford: Stanford University Press, 2007.

1. "Homeland Security: A New Strategic Paradigm?" With Rudolph Darken. In *Strategy in the Contemporary World*. John Baylis et. al. eds. New York: Oxford University Press, 2007.

Research Reports/Policy Analysis

40. "Private Sector Development in Conflict Affected States: A Report to the UK Department for International Development." With Ethan B. Kapstein, Zenobia T. Chan, and Kathryn Nicholson. Report, Empirical Studies of Conflict Project, Princeton University, December 2018.

39. "Elections and corruption: Politics and public procurement in India." With Jonathan Lehne and Oliver Vanden Eynde. VoxDev.com, December 2017.

38. "How much oil is the Islamic state group producing? Evidence from remote sensing." With Quy-Toan Do, Christopher D. Elvidge, Mohamed Abdel-Jelil, Daniel P. Ahn, Kimberly Baugh, Jamie Hansen-Lewis, and Mikhail Zhizhin. Policy Research Working Paper WPS8231, World Bank, 2017.

37. "Indian State Counterinsurgency Policies: Brief Historical Summaries." With Oliver Vanden Eynde, Katherine Ingrahm, and Emefa Addo Agawu. Report, Empirical Studies of Conflict Project, Princeton University, 2017.

36. "Understanding Risk and Resilience to Violent Conflicts." With Eric Min, Manu Singh, and Benjamin Crisman. 2017. Report, Empirical Studies of Conflict Project, Princeton University, 2017.

35. "Stabilization in Afghanistan: Trends in Violence, Attitudes, Well-being and Program Activity." With Radha Iyengar, Benjamin Crisman, Manu Singh, and James Mao. *Santa Barbara, C.A.: RAND Corporation*, 2017.

34. “Lessons Learned from Stabilization Initiatives in Afghanistan: A Systematic Review of Existing Research.” With Radha Iyengar and Stephen Hegarty. *Santa Barbara, C.A.: RAND Corporation*, 2017.
33. “The Military Cost of Civilian Casualties.” With Andrew Shaver. *Foreign Affairs*, August 22, 2017.
32. “The Role of Election Competition in Strengthening Pakistan's Fledgling Local Democracy.” With Asad Liaqat, Michael Callen, Ali Cheema, Adnan Khan, and Mudammad Farooq Naseer. International Growth Centre, March 16, 2017.
31. “The Flawed Logic of Trump’s Executive Order.” *Foreign Affairs*, January 30, 2017.
30. “How We Can Kill Terrorism with Kindness.” *Time*, January 5, 2017.
29. “The Problem With Vows to ‘Defeat’ the Islamic State.” With Stephen D. Biddle, *The Atlantic*, August 21, 2016.
28. “A Military Guide to Accessing Research on Fragile States.” With Caitlin Tulloch. *War on the Rocks*, June 22, 2016.
27. “Patience and Containment Are the Best Policies Against ISIS.” With Stephen D. Biddle, *The Atlantic*, April 20, 2016.
26. “Here's why we can only contain the Islamic State, not bomb it back to the Stone Age.” With Stephen Biddle. The Monkey Cage, *Washington Post*, December 1, 2015.
25. “Islamic State's New Strategy is Suicidal.” With Eli Berman, *Bloomberg View*, December 2, 2015.
24. “Why ISIL Will Fail on Its Own.” With Eli Berman, *Politico Magazine*, November 29, 2015.
23. “Connecting the Red Corridor: infrastructure development in conflict zones.” With Jamie Hansen-Lewis, Oliver Vanden Eynde, and Austin Wright. *International Growth Centre*, June, 2015.
22. “Mapping Rural Infrastructure Development in India.” With Jamie Hansen-Lewis and Oliver Vanden Eynde. Princeton University, 2015.
21. “Punjab Economic Opportunity Program, Skills Intervention Report, Skills for Market 2013-4 Uptake Report.” With Ali Cheema, Asim Khwaja, and Farooq Naseer. Center for Economic Research in Pakistan, 2015.
20. “The Super Smart Way to Dismantle ISIS” With Eli Berman and Joseph H. Felter. *The National Interest*, February 27, 2015.

19. "Aid for Peace: Does Money Buy Hearts and Minds?" With Eli Berman and Joseph H. Felter. *Foreign Affairs Online*, January 21, 2015.
18. "Managing a Transnational Insurgency: The Islamic State of Iraq's Paper Trail, 2005-2010." With Danielle F. Jung, Patrick Ryan, and Jon Wallace. *Combating Terrorism Center*, December 15, 2014.
17. "The terrorist bureaucracy: Inside the files of the Islamic State in Iraq." With Danielle F. Jung. *Boston Globe*, December 14, 2014.
16. "The Business Habits of Highly Effective Terrorists: Why Terror Masterminds Rely on Micro-Management." *Foreign Affairs Online*, August 14, 2013.
15. "Why assume the Taliban will always be so violent?" *Financial Times*, August 13, 2013.
14. "Effective Aid in Conflict Zones." With Eli Berman, Joseph H. Felter, and Erin Troland. *Vox*, May 26, 2013.
13. "Giving the Surge Partial Credit for Iraq's 2007 Reduction in Violence." With Stephen Biddle and Jeffrey A. Friedman. *Belfer Center Policy Brief*, September 2012.
12. "Support for Militant Organizations in Pakistan: Results from the FMS 2012 Survey." For U.S. Department of State, 2013. With C. Christine Fair and Neil Malhotra.
11. "Punjab Economic Opportunity Program, Employer Survey Report." Center for Economic Research in Pakistan, 2012. With Ali Cheema, Asim Khwaja, and Farooq Naseer.
10. "Punjab Economic Opportunity Program, Skills Intervention Report." Center for Economic Research in Pakistan, 2012. With Ali Cheema, Asim Khwaja, and Farooq Naseer.
9. "Punjab Economic Opportunity Program, Baseline Household Report for Skills: Non-In-Depth (NID) Sample." Center for Economic Research in Pakistan, 2012. With Ali Cheema, Asim Khwaja, and Farooq Naseer.
8. "Pakistan's Middle Class Extremists: Why Development Aid Won't Solve Radicalism." With Graeme Blair, C. Christine Fair, and Neil Malhotra. *Foreign Affairs Online*, July 11, 2011.
7. "Constructive COIN: How Development Can Fight Radicals." With Eli Berman and Joseph H. Felter. *Foreign Affairs Online*, June 1 2010.

6. “Why Choose Terrorism? Rebels and Terrorists.” With Eli Berman, Lindsay Heger, David Laitin, Victor Asal, and Joseph H. Felter. *Research Projects and Summaries*. Paper 71. 2009.
5. Drivers of Change in the Pakistan Army Corps: What the Data Say. With C. Christine Fair, Claude Berrebi, and Graeme Blair. *Santa Barbara, C.A.: RAND Corporation*, 2009.
4. “Strictly Confidential.” *Foreign Policy*, October 13, 2009.
3. Al-Qa’ida’s (Mis)Adventures in the Horn of Africa. With Clint Watts and Vahid Brown. *Westpoint, N.Y.: Combating Terrorism Center*, July 2 2007.
2. Harmony and Disharmony: Exploiting al-Qa’ida’s Organizational Vulnerabilities. With Joseph H. Felter, Jeff Bramlett, Bill Perkins, Jarrett Brachman, Brian Fishman, James Forest, and Tom Stocking. *Westpoint, N.Y.: Combating Terrorism Center*, February 14 2006.
1. An Analytical Approach to Preparedness for Homeland Security. With Lynn Eden, Michael May, and Patrick Roberts. *Stanford, C.A.: Center for International Security and Cooperation*, 2006.

Active Working Papers and Book Manuscripts

“Civilian Abuse and Wartime Informing.” With Austin L. Wright, Luke N. Condra, and Andrew C. Shaver. This paper analyzes the link between harm to civilians and information sharing with Afghan Government and NATO forces during the war in Afghanistan. Drawing on newly declassified military records and a novel instrumental variables approach, we find robust, direct evidence that civilians respond to victimization by insurgents by providing intelligence to security forces. (Under Review)

“Political Connections and Vote Choice: Evidence from Pakistan.” With Asad Liaqat, Michael Callen, Ali Cheema, Adnan Khan, and Farooq Naseer. We investigate the relationship between candidates' connections, party performance, and voting in the 2015 local government elections in Pakistan combining: (i) data on political connections between candidates and more senior politicians; (ii) a large-scale field experiment; and (iii) direct measurement of election outcomes. (Under Review)

“Choosing Ungoverned Space: Pakistan's Frontier Crimes Regulation.” With Michael Callen, Saad Gulzar, and Arman Rezaee. This paper studies why states often leave large portions of their sovereign territory effectively ungoverned. Using primary legal documents we create a dataset of when and where Frontier Crimes Regulation (FCR) applied in Pakistan between 1901 and 2012 at the sub-district level. Exploiting the differential impact of the Green Revolution on potential land revenue at the sub-district level we show that areas which saw disproportionate increases in potential land revenue were disproportionately more likely to have FCR removed following the advent of the Green Revolution, with substantial impacts on health and educational outcomes.

“Modernization and Organizational Performance.” With Jonathan Bendor. This book manuscript examines why some organizations radically outperform their peers with world historical consequences. We draw on cognitive psychology, the Weberian modernization literature, and organization theory to identify two critical properties: meritocracy and scientific culture. Over a long swath of history organizations that have these properties more than their peers are better at compensating for the bounded rationality and limited cognitive capacities of the individuals that make them up and therefore tend to perform much better.

“Where Policy Experiments are Conducted in Economics and Political Science: The Missing Autocracies.” With Graeme C. Blair and Radha K. Iyengar.

Field research projects and field experiments

2017-19. RCT-based evaluation of police reforms in Pakistan, including Community Oriented Policing and introduction of Alternative Dispute Resolution (ADR) mechanisms involving surveys (n=2,400) and high-resolution administrative data. With Ali Cheema and Ali Hasanaian. Part of EGAP Community Policing Metaketa Project.

2016. Study of candidate preferences in local government elections in Pakistan involving survey experiment (n=5,000) and observational work using candidate-level data. With Michael Callen, Ali Cheema, Adnan Khan, Asad Liaqat, and Farooq Naseer.

2015-16. High-Resolution Development Indicators, study links bi-weekly household economic surveys with cell phone records to enable high-precision measurement of economic activity. Includes experimentally-induced variation in income (n=1,200). With Joshua Blumenstock, Michael Callen and Tarek Ghani.

2013-14. Study of political and educational impacts of major reform to teacher hiring process in Punjab with survey experiments and observational data. With Michael Callen and Ali Cheema.

2011-2016. Colombia Responde, panel study of the impact of Colombian government efforts to consolidate political control in former rebel areas. With Abbey Steele and Juan F. Vargas.

2011-2019. Punjab Economic Opportunity Program (PEOP), RCT-based evaluation of political and economic impacts of a large-scale vocational training program in Pakistan. Includes 7 distinct experiments to date (n=40,000 to date). With Ali Cheema, Asim Khwaja, and Farooq Naseer.

2012-13. Eliciting Sensitive Political Attitudes, survey experiment comparing four methods of gauging sensitive attitudes in Mississippi (n=3,500). With Kosuke Imai and Bryn Rosenfeld.

2011-2012. Support for Militancy in Pakistan, survey experiment on sources of support for militant organizations (n=16,000). With C. Christine Fair, Kosuke Imai, and Neil Malhotra.

2009. Support for Militancy in Pakistan, survey experiment on sources of support for militant organizations (n=6,000). With C. Christine Fair and Neil Malhotra.

Grants

J-PAL, “Community Policing, Citizen Feedback, and Public Trust,” 2018. Co-PI on J-PAL award to Institute of Development and Economic Alternatives (IDEAS), \$188,608, two years.

Evidence in Governance and Politics Network (EGAP), “Community Policing, Citizen Feedback, and Public Trust,” 2017. Co-PI on J-PAL award to Institute of Development and Economic Alternatives (IDEAS), \$244,462, two years.

UK Department for International Development, "Business Development in Conflict-Affected States: An Overview of Research and Data," 2018. PI with one co-PI, \$94,284, over 4 months.

National Science Foundation, "ATD: Collaborative Research: Efficient Sampling for Real-time Detection and Isolation of Threats in Networks," 2017. PI (two other PIs separately funded), \$80,000, over 3 years.

International Growth Centre (IGC), "Bidding for Roads: Top-up Proposal," 2017. PI with two co-PIs, 26,360 GBP, over 1.25 years.

Department of Defense Minerva Research Initiative, “Spectral Models of Security: New Methods for Detecting Evolving Community Structure in Societal-Scale Data,” via subaward from UC Berkeley, 2016. Co-PI, \$193,497, over 3 years.

International Growth Centre (IGC) – Pakistan, “Candidate Attributes and Political Accountability: Evidence from Pakistan Local Government Elections,” 2016. Co-PI on IGC award to Institute of Development and Economic Alternatives (IDEAS), 19,998 GBP, one year.

International Growth Centre (IGC), “Bidding for Roads,” 2015. Co-PI on IGC award to Paris School of Economics, 17,192 GBP, two years.

International Growth Centre (IGC), “High-Resolution Measures of Poverty and Vulnerability in Afghanistan: Cost-Effective Solutions Based on Mobile Phone Data,” 2015. Co-PI on IGC award to University of Washington, 39,133 GBP, one year.

Growth and Economic Opportunities for Women (GrOW) “Punjab Economic Opportunity Programme: Evaluating Markets for Skill Acquisition and Employment,” via subaward from Harvard University, 2015. Co-PI, \$65,218, two years.

Department of Defense Minerva Research Initiative, “Deterrence with Proxies,” via subaward from UC San Diego, 2014. Co-PI, \$628,112, five years.

International Growth Centre (IGC) – Pakistan, “The Political Economy of Public Sector Reform, Evidence from Teacher Hiring in Pakistan,” 2014. Co-PI on IGC award to Institute of Development and Economic Alternatives (IDEAS), 40,000 GBP, one year.

International Growth Centre (IGC) “Rural Infrastructure Provision in India: Mapping the Bharat Nirman Programme,” 2014. Lead PI with one co-PI, \$25,382, one year.

International Growth Centre (IGC) – Central India, “Connecting the Red Corridor: Infrastructure Provision in Conflict Zones,” 2014. Lead PI with one co-PI, \$59,310, one year.

Office of Naval Research (ONR), “State-building at the Community Level: Evaluating the Impact of Colombia’s Consolidation Program,” 2013. Lead PI with two co-PIs, \$939,276, three years.

Institute for the Study of Labor (IZA), “Punjab Economic Opportunity Programme: Evaluating Market for Skills Acquisition and Employment,” 2013. Co-PI, \$60,500, four years.

U.S. Department of State, “Politics of Militancy in Pakistan: 2011,” via Georgetown University, 2011. Co-PI, \$30,000, one year.

Department of Defense Minerva Research Initiative, “Terrorism, Governance, and Development,” 2009. Lead PI with 5 co-PI, \$9.9M, six years.

Army Research Office/Harvard University, “Measuring, Understanding, and Responding to Covert Social Networks,” 2010. Co-PI, \$564,000, five years.

International Growth Center, “Political Violence in Pakistan – Understanding Subnational Patterns,” 2010. Lead PI, \$77,000, two years.

Department of Homeland Security/CREATE, “Models of Counterterrorism,” via subaward from UC San Diego, 2008. \$252,900, two years. “Political Violence in Pakistan-Understanding Subnational Patterns,” 2010. Co-PI, \$103,000, two years.

National Science Foundation, “Robust Socio-Technological Networks: An Inter-Disciplinary Approach to Theoretical Foundation and Experimentation,” 2009. Co-PI, \$275,000, four years.

Research Agreements

United States Institute of Peace, “Evaluating the Impact of Stabilization Programming in Afghanistan.” 2016. PI, \$288,725, seven months.

World Bank, “Understanding Risk and Resilience to Violent Conflicts.” 2016. PI, \$160,000, ten months.

Graduate Students

- Saurabh Pant, 2018. Post-doctoral Fellow, Institute for Advanced Study in Toulouse
- Andrew Shaver, 2017. Post-doctoral Fellow, Stanford University.
- Peter Schram, 2016. Assistant Professor, Vanderbilt University.
- Austin Wright, 2016. Assistant Professor, Harris School of Public Policy, University of Chicago.
- Thomas Scherer, 2015. Program Director, United States Institute of Peace.
- Liam Collins, 2014. Program Director, U.S. Military Academy.
- Rex Douglass, 2012. Project Scientist, UC San Diego.
- Raymond Kuo, 2014. Assistant Professor, SUNY Albany.
- Oriana Mastro, 2012. Assistant Professor, Georgetown University.

Fellowships, Honors, and Professional Affiliations

Karl Deutsch Award, International Studies Association. 2016.

Class of 1934 University Preceptor. 2013-2016.

Associate Fellow, Institute of Development and Economic Alternatives (IDEAS). 2013-.

Faculty Associate, Princeton Institute for International and Regional Studies. 2013-.

Faculty Fellow, Association for Analytic Learning about Islam and Muslim Societies. 2012-.

Term Member, Council on Foreign Relations. 2011-2016.

Research Fellow, Center for Economic Research in Pakistan. 2010-.

Harmony Fellow, Combating Terrorism Center, United States Military Academy. 2006-2008.

Postdoctoral Fellow, Center for International Security and Cooperation, Stanford University, Fall 2007.

Predocctoral Fellow, Center for International Security and Cooperation, Stanford University, 2006-2007.

Homeland Security Fellow, Center for International Security and Cooperation, Stanford University, 2005-2006.

Graduate Fellow, Stanford Center on International Conflict and Negotiation, 2005-2006.

Organizational Learning Fellow, Center for International Security and Cooperation, Stanford University, 2004-2005.

Professional Service

Advisory and Editorial Boards:

- Facebook, Data Transparency Advisory Group, 2018.
- Member, Editorial Board, *Journal of Conflict Resolution*, 2015-.
- Advisory Board, Global Terrorism Dataset, 2013-.
- Associate Editor: *Studies in Conflict and Terrorism*, 2013-.
- Associate Editor: *World Politics*, 2009-.

University Service:

- Director, Masters in Public Policy Program, 2018-.
- Conflict of Interest in Research Panel, 2018-.
- Task Force on Administrative Burden to Research, 2017.
- Princeton Entrepreneurship Council Executive Committee, 2016-.
- University Research Board, 2016-.
- MPP Admissions Committee, Woodrow Wilson School, 2015-16.
- IR Field Coordinator, 2015-16.
- Formal and Quantitative Search Committee, Princeton University, 2015.
- American Politics Search Committee, Princeton University, 2014.
- Scholars in the Nations Service Initiative Review Committee, Woodrow Wilson School, Princeton University, 2014.
- Admissions Committee, Department of Political Science, Stanford, 2006.

Reviewer:

American Economic Review, American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, American Journal of Political Science, American Political Science Review, American Sociological Review, British Journal of Political Science, Cambridge University Press, Civil Wars, Columbia University Press, Comparative Political Studies, Conflict Management and Peace Science, Defense and Peace Economics, Homeland Security Affairs, IEEE Spectrum, International Organization, International Security, International Studies Perspectives, Journal of Conflict Resolution, Journal of Development Economics, Journal of Development Studies, Journal of Quantitative Criminology, Journal of Peace Research, Journal of Policy Analysis and Management, Journal of Political Economy, Journal of Politics, Journal of Public Economics, Journal of Strategic Studies, Oxford University Press, PLoS ONE, Political Communication, Political Psychology, Political Science Research and Methods, Proceedings of the National Academy of Sciences, Public Choice, Public Opinion Quarterly, Quarterly Journal of Economics, Quarterly Journal of Political Science, Review of Economics and Statistics, Science, Review of Economic Studies, Security Studies, Studies in Conflict and Terrorism, Terrorism and Political Violence, University of Chicago Press, University of Michigan Press, World Development, World Politics.

Grant and Proposal Reviewer:

Army Research Office, National Academy of Sciences, National Science Foundation, Office of Naval Research, Swiss National Science Foundation, World Bank.

Teaching

“Policy Entrepreneurship for the 21st Century.” Princeton University. Winter 2019.

“Learning Lessons from Afghanistan.” M.P.A. Policy Workshop, Woodrow Wilson School of Public and International Affairs, Princeton University. Fall 2015

“Military Instrument of Foreign Policy.” Undergraduate Seminar, Politics Department, Princeton University, Fall 2015, Fall 2016.

“Peace-Building and Development in Conflict-Affected States.” M.P.A. Policy Workshop, Woodrow Wilson School of Public and International Affairs, Princeton University. Fall 2014.

“Violent Politics.” Undergraduate Lecture, Politics Department, Princeton University. Spring 2011, Fall 2012, Spring 2013, Fall 2014, Fall 2015, Fall 2018.

“Terrorism, Civil War, and Non-State Threats.” M.P.A. Seminar, Woodrow Wilson School of Public and International Affairs, Princeton University. Spring 2011, Fall 2012, Spring 2015, Fall 2016, Fall 2018.

“Security Studies.” Ph.D Seminar, Politics Department, Princeton University. Spring 2010, Spring 2013, Spring 2015, Fall 2016.

“Theories of International Relations.” Ph.D. Seminar, Politics Department, Princeton University. Spring 2009.

“The Politics of Public Policy.” M.A. Lecture Course, Woodrow Wilson School of Public and International Affairs, Princeton University. Fall 2008.

Invited Speaker, Intelligence Course, Center for Homeland Defense and Security, Naval Postgraduate School. Spring 2007 - 2009.

“Terrorist Financing and State Response.” M.A. Seminar. National Security Affairs Department, Naval Postgraduate School. Summer 2005 and Spring 2006.

Executive Education

“Leading Evidence-Based Decisions.” Summer 2016, Summer 2017, Summer 2018. Course created with Ethan Bueno de Mesquita, Liam Collins, and Cathy Fetell.

Academic Workshops

Instructor

- Business Experiments 101, Telecom Development Company Afghanistan Ltd, Kabul, Afghanistan, November 2012.
- Empirical Implications of Theoretical Models (EITM), Princeton University, July 2012.
- CERP/CLEAR/J-PAL Executive Education Course: Evaluating Social Programs, Lahore, Pakistan, December 2011.
- Empirical Implications of Theoretical Models (EITM), University of Chicago, July 2011.
- Government, Development, and Political Violence Training Workshop, UC San Diego, June 2010.

Student

- Committee for the Analysis of Military Operations and Strategy (CAMOS) Research Design Workshop for Dissertation Writers, July 2005.
- Institute for Qualitative Research Methods (IQRM), January 2005.
- Computational Analysis of Social and Organizational Systems (CASOS) Summer Institute, June 2004.
- Inter-University Consortium for Political and Social Research (ICPSR) Summer Program in Quantitative Methods of Social Research, June-August 2003.

Broadcast Media

MSNBC, BBC, Al Jazeera

Selected Professional Talks and Presentations

“Small Wars, Big Data: The Information Revolution in Modern Conflict.” Harris School of Public Policy, University of Chicago, January 2019. Kings College London, November 2018. London School of Economics, November 2018. Stanford University, November 2018. Princeton University, October 2018. New York University, October 2018. SUNY Stonybrook, October 2018. Harvard University, October 2018. London School of Economics, November 2018. Kings College, November 2018. Washington University, November 2018.

“Uses of Data: New Opportunities and Challenges.” Pathways to Peace Conference, UN Development Program, April 2018.

“Political Connections and Vote Choice: Evidence from Pakistan.” Political Economy Seminar, Stanford Graduate School of Business, March 2018.

“The Terrorist’s Dilemma: Managing Violent Covert Organizations.” Invited presentation, American University, February 2018.

“Political Consequences and Analytical Challenges of Refugee Flows.” World Bank, February 2018.

“Machine Learning in the Wild.” Department of Energy Scientific Machine Learning Workshop, January 2018.

“Measuring Poverty and Vulnerability in Real Time.” Annual Meeting of the American Economic Association, January 2018.

“Estimating Poverty and Wealth From Mobile Phone Data.” Annual Meeting of the American Economic Association, January 2018.

“Big Data, Small Wars: The Information Revolution in Modern Conflict.” University of Amsterdam, November 2017. Binghamton University, December 2017. Texas A&M University, January 2018.

“Building Connections: Political Corruption and Road Construction in India.” University of Chicago, January 2019. University of Michigan, October 2017. University of California, San Diego, October 2017.

“Civilian Abuse and Wartime Informing.” Conflict & Peace, Research & Development Workshop, University of Michigan, October 2017.

“Measuring Sensitive Attitudes and Behaviors with Application to Support for Militancy.” World Bank, September 2017.

“How Much Oil is Daesh Producing?” University of Delaware. September 2017.

“Big Data for Operations and Policy: Opportunities, Challenges, and (perhaps) Solutions.” E-Analytics Workshop, United Nations DPA/DPKO, June 2017.

“High-Resolution Development Indicators.” Workshop on Prediction for Prevention, Institut d’analisi economica, May 2017.

“Linking Small Successes to Strategic Victory.” International Security Colloquium. Notre Dame University, April 2017.

“Reducing Violent Extremism: What Works?” Panel Discussion. New America Foundation, December 2016.

“Service Delivery, Political Connections, and Voting: Evidence from Field Experiments in Pakistan.” For *Research Seminar Series in Politics & Political Economy*, Johns Hopkins School of Advanced International Studies, November 2016.

“Civilian Casualties, Popular Attitudes, and Wartime Informing: Evidence from Iraq.” For Middle East and North Africa (MENA) Chief Economist’s Office Seminar Series, World Bank, November 2016.

“Reflections on the Threat of Islamist Terrorism in the United States.” For Homeland Security and Criminal Justice Conference, Rider University, October 2016.

“Information and War: Lessons from the Empirical Studies of Conflict Project.” For *Social Science Seminar*, Center for International Security and Cooperation, Stanford University. June 2016.

“Political Influence And Voter Preferences: Evidence From India And Pakistan.” For *Growth Week*, International Growth Centre, London School of Economics. June 2016.

“Is ISIS Economically and Socially Sustainable?” Cato Institute. May 2016.

“Crossing Boundaries: Experimental Evidence on Skills Acquisition Access Constraints for Rural Women in Pakistan.” For 1st IZA/DFID GLM-LIC Research Conference on New Research on Labor Markets in Low-Income Countries, October 2015; AALIMS - Princeton Conference on Islam and Human Capital, October 2015; *CHW-RPDS Seminar*, Princeton University, April 2016.

“Civilian Casualties and Wartime Informing: Evidence from the Iraq War.” For *NBER Summer Institute, Economics of National Security*, July 2015; Invited Presentation, Center for International Security and Cooperation, Stanford University, March 2015; Political Economy Seminar, University of Warwick, November 2015; Political Economy and Politics Seminar, London School on Economics, November 2015; AEA Annual Meeting, January 2016; 11th Defense and Security Economics Workshop, November 2016.

“The Terrorist’s Dilemma: Managing Violent Covert Organizations.” Furniss Book Award Lecture, Mershon Center, Ohio State University, October 2015.

“Suicide Vests and Spreadsheets: Why Terrorists Need Bureaucracy and What That Means for the Rest of Us.” Keynote Address: European Network for Conflict Research, October 2015.

“Confronting the New Era of Conflict.” University of Chicago, Harris School of Public Policy, September 2015.

“Economics: Countering Violent Extremism Nexus.” Invited Presentation, Aspen Institute Workshop. September 2015.

“Micro Events and Macro Dynamics.” For *Annual Meeting of the American Political Science Association*, August 2015.

“Choosing Ungoverned Space: Pakistan’s Frontier Crimes Regulation.” For *Sié Research Seminar*, University of Denver, February 2015; *Paris Empirical Political Economics Seminar*, Science Po, March 2015.

“Foundations of the Islamic State: Management, Money, and Terror in Iraq.” Invited Presentation, Assistant Secretary of Defense for Research and Engineering (ASD(R&E)) Research Directorate, October 2014.

“Lessons for Peacemaking and State Building.” For 5th Annual Minerva Research Initiative Conference, September 2014.

“Explaining Local Variation in Insurgency and Urban Conflict.” Invited Presentation, Harris School of Public Policy, March 2014.

“Economic Shocks and Civic Engagement: Evidence from the 2010-11 Pakistan Floods.” For *Harvard-MIT Joint Development Seminar*, February 2014; *Comparative Politics Seminar*, New York University, March 2014; *Political Science Department Speaker Series*, UCLA, March 2014; *Applied Microeconomics Seminar*, World Bank Development Research Group, April 2014; *Applied Economics Seminar*, Hebrew University, May 2014; and *ESOC-USIP Workshop on Effective Development in Conflict Zones*, May 2014.

“Aid in Conflict Zones.” For *World Development Review Conference*, World Bank, February 2014.

“Explaining Local Variation in Intrastate Conflict.” Invited Presentation, Ford School of Public Policy, University of Michigan, February 2014.

“Explaining Local Variation in Intrastate Conflict.” For *Symposium on Political Violence*, University of Pittsburgh, and Invited Presentation at Carnegie Mellon University, January 2014.

“Coordination and Security: How Mobile Communications Affect Insurgency.” For *Communications, Technology, and Political Conflict Workshop*, Yale University, November 2013.

“Fighting Insurgent Organizations: Lessons from the Harmony Database and the Iraq War.” Invited Presentation, United States Military Academy, November 2013.

“How Natural Disasters Affect Political Attitudes and Behavior: Evidence from the 2010-11 Pakistani Floods.” For *Ford Security Seminar*, University of Michigan, October 2013.

“The Terrorist’s Dilemma: Managing Violent Covert Organizations.” For *Center for Wealth and Inequality Workshop*, Columbia University, October 2013.

“The Terrorist’s Dilemma: Managing Violent Covert Organizations.” Invited Presentations, Foreign Policy Research Institute, Georgetown University, and New America Foundation, October 2013.

“How Natural Disasters Affect Political Attitudes and Behavior: Evidence from the 2010-11 Pakistani Floods.” For *Northeast Workshop in Empirical Political Science*, New York University, September 2013.

“Blind Retrospection in Weak States: Evidence from the 2010 Pakistan Floods.” For *Security Peace and Conflict Workshop*, Duke University, September 2013.

“The Conflict in Syria: Insights from Minerva.” For 4th Annual Minerva Research Initiative Conference, September 2013.

“The Terrorist’s Dilemma: Organizational Constraints on Terrorist Organizations.” Invited Presentation for the U.S. State Department Bureau of Intelligence and Research, September 2013.

“Sub-contracting State-building.” For *Annual Meeting of the American Political Science Association*, August 2013.

“Relative Poverty, Perceived Violence, and Support for Militant Politics: Evidence from Pakistan.” For *Annual Meeting of the American Political Science Association*, August 2013.

“Measuring Violence with Communication Data.” For *Annual Meeting of the American Political Science Association*, August 2013.

“Blind Retrospection in Weak States: Evidence from the 2010 Pakistan Floods.” For *Barcelona Graduate School of Economics Summer Forum* session on “Political Institutions: Effects on Policy and Civil Conflict,” June 2013.

“Long-run Consequences of Civil War on Militant Capabilities.” For *Five Eyes on Threat Finance: Countering Post Arab Spring Trends in Extremist Support*, National Counterterrorism Center, June 2013.

“Modernization, Military Performance, and Sample Paths in World History.” For *Workshop on Approaches to Historical Research in Political Science*, Columbia University, May 2013.

“Disastrous Politics: How the 2010 and 2011 Floods Changed Citizen Preferences in Pakistan.” For *Conference on Political Economy of the Muslim World*, Rice University, April 2012.

“Modernization and Organizational Performance.” For *Conference on Historical Development of Modern Political Institutions*, Princeton University, March 2013.

“Is There a Law of One Attitude?” For *Political Methodology Colloquium*, Princeton University, March 2013.

“Understanding Support for Militancy in Pakistan.” For *Department of Peace and Conflict Research Speaker Series*, Uppsala University, March 2013.

“Insurgent Compensation: Evidence from Iraq.” Invited Presentation for the Joint Staff, February 2013.

“Telecommunications and Insurgent Violence.” For *Seminar on Global Society and Security*, Harvard University, February 2013.

“Modest, Secure, and Informed: Successful Development in Conflict Zones.” For *Annual Meeting of the American Economic Association*, January 2013.

“Insurgent Compensation: Evidence from Iraq.” For *Annual Meeting of the American Economic Association*, January 2013.

“Understanding Support for Militancy in Pakistan.” For *Macmillan International Relations Workshop*, Yale University, October 2012.

“Telecommunications and Insurgent Violence.” For *PSAC Seminar*, Cornell University, October 2012.

“Sampling Properties of the RCT Endeavor.” For *Experimental Research Workshop: Best Practices and Applications*, Princeton University, September 2012.

“Studying State-building in Colombia.” For *Princeton Symposium on Building Government Accountability and Leading Reform*. September 2012.

“Terrorism, Governance, and Development.” For 3rd Annual Minerva Research Initiative Conference, September 2012.

“Telecommunications and Insurgent Violence.” For *International Relations Seminar*, Emory University, September 2012.

“Understanding Support for Militancy in Pakistan.” For *Program on International Security Policy Seminar*, University of Chicago, May 2012.

“The Terrorist’s Dilemma.” Invited Seminar, St. Andrews University, May 2012.

“Testing the Surge: Why did Violence Decline in Iraq in 2007?” For *Social Science Seminar*, Center for International Security and Cooperation, February 2012.

“Testing the Surge: Why did Violence Decline in Iraq in 2007?” For *International Relations Seminar*, UC Berkeley, February 2012.

“Talking About Killing: Cell Phones, Collective Action, and Insurgent Violence in Iraq.” For *Georgetown University International Theory and Research Seminar (GUITARS)*, October 2011.

“Terrorist Ideologies and Organizations, the State of the Field.” For 2nd Annual Minerva Research Initiative Conference, September 2011.

“Modeling Inflection Points for Terrorist Organizations.” For *Combating Terrorist Financing*, National Counterterrorism Center, March 2011.

“Talking About Killing: Cell Phones, Collective Action, and Insurgent Violence in Iraq.” For *Columbia University International Politics Seminar*, March 2011.

“Can Hearts and Minds Be Bought? The Economics of Counterinsurgency in Iraq.” For *International Relations Seminar*, University of Wisconsin, October 2010.

“Drivers of Peace and Conflict: Dynamics of Terrorist Organizations and Groups” for *The Minerva Initiative: Fostering a Community of Strategic Scholarship*, National Defense University, October 2010.

Invited Speaker. USAID Evidence Summit on “Development to Counterinsurgency.” September 2010.

“Communication Networks and Insurgent Violence.” For *Annual Meeting of the American Political Science Association*, September 2010.

“Rules of War: The Impact of Civilian Casualties on Violence in Afghanistan.” Invited presentation, New America Foundation, August 2010.

“The Effect of Civilian Casualties in Afghanistan and Iraq.” For *National Bureau of Economic Research Summer Institute 2010*, Economics of National Security, July 2010.

“Who Takes the Blame? The Consequences of Collateral Damage.” For *Security Development Nexus Workshop*, University of Ottawa, May 2010.

“The Roots of Militancy: Evidence from Pakistan.” For *Political Economy Seminar*, Harris School of Public Policy, University of Chicago, April 2010.

“The Roots of Militancy: Evidence from Pakistan.” For *Social Science Seminar*, Center for International Security and Cooperation, Stanford University, February 2010.

“The Roots of Militancy: Evidence from Pakistan.” For *International Relations Seminar*, UC Berkeley, February 2010.

“Can Hearts and Minds Be Bought? The Economics of Counterinsurgency in Iraq.” For *Faculty Seminar*, New York University Department of Politics, February 2010.

“The Roots of Militancy: Evidence from Pakistan.” Invited presentation, the George Washington University Institute on Security and Conflict Studies, January 2010.

“Can Hearts and Minds Be Bought? The Economics of Counterinsurgency in Iraq.” For *Operations Research Seminar*, Naval Postgraduate School, January 2010.

“The Politics of Militancy.” Invited presentation, Georgetown University, October 2009.

“Who Takes the Blame? The Strategic Effects of Collateral Damage.” For *Workshop on Order, Conflict, and Violence*, Yale University, October 2009.

“The Politics of Militancy.” For *Political Methodology Colloquium*, Princeton University, September 2009.

“Do Working Men Rebel? Insurgency and Unemployment in Iraq.” For *Governance, Development and Political Violence*, University of California Institute on Global Conflict and Cooperation, June 2009.

“Who Takes the Blame? The Strategic Consequences of Collateral Damage.” For University of Maryland Contentious Politics Workshop, May 2009.

“Empirical Studies of Conflict – Iraq and the Philippines.” Invited presentation, U.S. Army and Marine Corps Counterinsurgency Center, November 2008.

“Can Hearts and Minds Be Bought? The Economics of Counterinsurgency in Iraq.” For *National Bureau of Economic Research Summer Institute 2008*, Economics of National Security, July 2008.

“Bureaucracy and Control in Terrorist Organizations.” For Columbia University International Politics Seminar, April 2008.

“Heterogeneous Motivations, Discipline, and Change in Terrorist Organizations.” For *Annual Meeting of the International Studies Association*, March 2008.

“Why Support Islamic Militancy? Evidence from Pakistan.” For *Annual Meeting of the International Studies Association*, March 2008.

“Counterinsurgency Without Killing: Public Goods and Violence in the Iraqi Civil War.” For *Social Science Seminar*, Center for International Security and Cooperation, Stanford University, November 2007.

“Non-State Actors and Failed States: Lessons from al-Qa'ida's Experiences in the Horn of Africa.” For *Ungoverned Spaces*, Naval Postgraduate School, August 2007.

“Patterns of Terror: Using Organizational Changes to Evaluate Counterterrorism.” For *Terrorist Organizations: Social Science Research on Terrorism*, University of California Institute on Global Conflict and Cooperation, May 2007.

“Is This Paper Dangerous: Balancing Secrecy and Openness in Counterterrorism.” Invited presentation, Naval Postgraduate School, Center for Homeland Security and Defense, March 2007.

“What the Terrorist Risks: Operational Roles, Organizational Technology and Opportunity Costs in International Terrorism.” For *Annual Meeting of the American Political Science Association*, September 2006.

“The Impact of Heterogeneous Motivations In Terrorist Organizations.” For *Annual Meeting of the American Political Science Association*, September 2006.

“The Terrorist’s Challenge: Security, Efficiency, Control.” For *Social Science Seminar*, Center for International Security and Cooperation, Stanford University, May, 2005.

“Anti-terrorist Finance: The Good, The Bad, and The Ugly.” For *European Forum*, Freeman Spogli International Institute, Stanford University, January, 2006. Panel with Laura K. Donohue and Khalid Medani.

“Organizing Terror: Hierarchy and Networks in Covert Organizations.” For *Annual Meeting of the American Political Science Association*, September, 2005.

“Underfunding in Terrorist Operations.” For *Annual Meeting of the American Political Science Association*, September, 2005.

“The Greedy Terrorist: Terrorist Organizations’ Inefficiencies and Vulnerabilities.” For *Social Science Seminar*, Center for International Security and Cooperation, Stanford University, April, 2005.

“Going to Red Alert: What Can We Anticipate?” For *Directors’ Seminar*, Center for International Security and Cooperation, Stanford University, November, 2004.

Professional Experience

President, 2016-2019. President. Giant Oak, Inc..

Chief Scientist, 2013-2018. Giant Oak, Inc..

Naval Reserve Officer, 2002-2005. Office of Naval Intelligence and Naval Warfare Development Command.

Arrow Electronics, 2002 –2003.

Naval Officer, 1998-2002. Special Boat Team 20 and USS Arthur W. Radford (DD-968).