

# Andrew W. Reddie

University of California, Berkeley ◊ 210 Barrows Hall ◊ Berkeley, CA 94720

[areddie@berkeley.edu](mailto:areddie@berkeley.edu) ◊ [areddie.com](http://areddie.com) ◊ [LinkedIn](#)

## EDUCATION

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<b>Postdoctoral Fellow</b> University of California, Berkeley	August 2019 - September 2021
<b>Ph.D. Political Science</b> University of California, Berkeley Dissertation: Governing Insecurity: The Design and Effects of Arms Control Regimes Committee: Vinod K. Aggarwal, Ron E. Hassner, Michaela Mattes, Michael Nacht, Steven Weber	August 2014 - August 2019
<b>M.A. Political Science</b> University of California, Berkeley	August 2014 - December 2016
<b>M.Phil. International Relations</b> University of Oxford, St. Antony's College	August 2010 - August 2012
<b>B.A. International and Area Studies, <i>magna cum laude</i></b> University of California, Berkeley	August 2007 - May 2010

## RESEARCH AND METHODS

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<b>Research</b>	International Cooperation, Arms Control, Nuclear Weapons, Cybersecurity, and Governance
<b>Subfields</b>	International Security, Comparative Politics
<b>Skills</b>	Experimental Design, Political Methodology
<b>Platforms</b>	R, Qualtrics, L <sup>A</sup> T <sub>E</sub> X

## PUBLICATIONS

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### Peer-Reviewed Articles

8. Goldblum, Bethany L., **Andrew W. Reddie**, Thomas C. Hickey, James E. Bevins, Sarah Laderman, Nathaniel Mahowald, Austin P. Wright, Elie Katzenson, and Yara Mubarak (2019). [Networks and Nukes: Multiplex Network Analysis for Interconnected Systems](#), *Applied Network Science*. Vol. 4 No. 1.
7. Aggarwal, Vinod K. and **Andrew W. Reddie** (2019). [Regulators Join Tech Rivalry with National-Security Blocks on Cross-Border Investment](#) *Global Asia*. Vol. 14 No. 1.
6. **Reddie, Andrew W.**, Bethany L. Goldblum, Kiran Lakkaraju, Jason Reinhardt, Michael Nacht, and Laura Epifanovskaya (2019). [Applying Wargames to Real-world Policies—Response](#) *Science*. Vol. 363 No. 6434: 1406-1407.
5. **Reddie, Andrew W.**, Bethany L. Goldblum, Kiran Lakkaraju, Jason Reinhardt, Michael Nacht, and Laura Epifanovskaya (2018). [Next-Generation Wargames](#), *Science*. Vol. 362 No. 6421.
4. Aggarwal, Vinod K. and **Andrew W. Reddie** (2018). [Comparative Industrial Policy and Cybersecurity: A Framework for Analysis](#), *Journal of Cyber Policy*. Vol. 3 No. 3.
3. Aggarwal, Vinod K. and **Andrew W. Reddie** (2018). [Comparative Industrial Policy and Cybersecurity: The US case](#) *Journal of Cyber Policy*. Vol 3 No. 3.
2. **Reddie, Andrew W.** and Bethany L. Goldblum (2018). [All Hands on Deck: Advancing Safeguards for Naval Nuclear Material](#), *Nonproliferation Review*. Vol. 25 No. 2.
1. **Reddie, Andrew W.** (2017). [An International Model of the Future of Politics as Usual: TTIP, Regulatory Harmonization, and ISDS](#), *Business and Politics*. Vol. 19 No. 4.

## Other Publications (Selected)

- **Reddie, Andrew W.** (2020). [Hypersonic missiles: Why the new “arms race” is going nowhere fast](#) *Bulletin of Atomic Scientists*.
- Hersman, Rebecca Reja Younis, Bryce Farabaugh, Bethany Goldblum, and **Andrew W. Reddie** (2020). [Under the Nuclear Shadow: Situational Awareness Technology and Crisis Decisionmaking](#) *Center for Strategic and International Studies*.
- Aggarwal, Vinod K. and **Andrew W. Reddie** (2019). [The U.S. Needs an Industrial Policy for Cybersecurity](#) *DefenseOne*.
- Goldblum, Bethany L., **Andrew W. Reddie**, and Jason Reinhardt (2019). [Wargames as experiments: The Project on Nuclear Gaming’s SIGNAL framework](#), *Bulletin of the Atomic Scientists*.
- Aggarwal, Vinod K. and **Andrew W. Reddie** (2019). [Cyber Industrial Policy in an Era of Strategic Competition](#) *Center for Long-Term Cybersecurity White Paper Series*, University of California, Berkeley.
- **Reddie, Andrew W.** (2019). [Reflections on the INF Withdrawal](#) *Center for Strategic and International Studies*.
- **Reddie, Andrew W.** (2018). [Design Matters: The Past, Present and Future of the INF Treaty](#) *Trust and Verify* No. 162.
- **Reddie, Andrew W.** and Bethany L. Goldblum (2018). [Why the security of nuclear materials should be focus of US-Russia nuclear relations](#), *Bulletin of the Atomic Scientists*.
- **Reddie, Andrew W.** (2018). [The Case for Hypersonic Weapons](#), *Center for Strategic and International Studies*.
- **Reddie, Andrew W.** (2014). Canadian Prime Minister Harper’s Foreign Policy Prerogatives, *Globe and Mail*.

## MANUSCRIPTS IN PROGRESS

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Arms Control in the 21st Century [Book Manuscript]

Review Article: Dangerous Confidence? Chinese Views on Nuclear Escalation, ISSF/H-Diplo Roundtable

Experimental Gaming at the Nuclear Threshold: The Effects of Low-Yield Nuclear Capabilities on the Nuclear Use

Weapon Effects and Conflict Escalation: An Experimental Gaming Approach

Patterns of Cyber Use and Cyber Response: Evidence from SIGNAL Online and SIGNAL Survey

Benchmarking SIGNAL: A Cross-Method Comparison of Wargame, Survey, and Conflict Process Data

Defining “AI”: Pattern Recognition, Anomaly Detection, and Autonomy in War

Economic Statecraft in an Era of Strategic Competition [Book Project]

## RESEARCH POSITIONS

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### School of Security Studies

**King’s College, London**

*Research Consultant*

October 2017 - present

- Researcher for project examining the impact of social media upon strategic communication and nuclear deterrence with Prof. Lawrence Freedman and Dr. Heather Williams.
- Consultant for Carnegie-funded project concerning the effects of ballistic missile defense on deterrence calculus and conflict escalation.

### Goldman School of Public Policy

**University of California, Berkeley**

*Postgraduate/Graduate Researcher*

August 2017 - present

- Researcher for the Project on Nuclear Gaming: a multi-institutional collaboration between LLNL, Sandia Laboratories, and UC Berkeley examining patterns of nuclear escalation.

**Nuclear Policy Working Group**  
**University of California, Berkeley**  
*Lead Researcher and Deputy Director*

August 2016 - present

- Lead UC Berkeley's research-based educational programming effort to educate students on contemporary issues in nuclear security, to foster collaboration across the technical and social science fields, to generate original policy-relevant publications.
- Lead researcher for Carnegie-funded project regarding the impact of emerging technology upon strategic stability with the Center for Strategic and International Studies (CSIS).

**Department of Nuclear Engineering**  
**University of California, Berkeley**  
*Graduate Researcher*

August 2016 - August 2019

- Researcher on project examining network science applications to proliferation detection (DoE NNSA DNN sponsor).
- Researcher on project on naval reactor safeguards presented to the IAEA PREPCOM in collaboration with the Federation of American Scientist and the MacArthur Foundation.

**Center for Global Security Research**  
**Lawrence Livermore National Laboratory**  
*Research Associate*

April 2018 - March 2019

- Researcher on Carnegie-funded project concerning nuclear weapons effects as part of the Project on Nuclear Gaming.
- Researching the institutional design of arms control agreements with a specific focus on verification regimes related to July 2018 Arms Control Workshop.
- Carrying out research concerning the international security challenges posed by artificial intelligence and machine learning.

***Business and Politics*, Cambridge University Press**  
**Berkeley, CA**  
*Managing Editor*

January 2015 - March 2019

- Management of top-tier journal publishing articles in the fields of international political economy, management, and business administration.
- Perform a series of editorial roles including article review, editing, and management of the double-blind, peer review process.

**Berkeley APEC Study Center**  
**University of California, Berkeley**  
*Project Director*

January 2015 - March 2019

- Performed a variety of research and administrative tasks in support of the Center.

**Center for Long-Term Cybersecurity**  
**University of California, Berkeley**  
*Affiliated Researcher*

August 2015 - August 2019

- Lead graduate researcher on Hewlett Foundation grant examining industrial policy related to cybersecurity across nine countries.

**U.S. Department of State**  
**Bureau of International Organizations**  
*Research Intern*

Fall 2014 - Spring 2015

- Researcher on issues related to post-conflict and post-disaster reconstruction and development.

**Canadian International Council**

**Toronto**

*Managing Editor*

January 2013 - August 2014

- Tasked with transitioning the program to OpenCanada.org, liaising with regional offices, and reinvigorating the CIC's publication pipeline.

**Council on Foreign Relations**

**Washington, DC**

*Research Associate*

August 2012 - October 2013

- Performed research concerning nuclear nonproliferation, Internet governance, conflict management, and the United Nations as well as administrative tasks supporting the International Institutional and Global Governance program.

**RESEARCH GRANTS**

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U.S. Department of Energy Nuclear Science and Security Consortium Fellowship	2018-2019
Carnegie Corporation of New York, Project on Nuclear Gaming	2017-2019
Carnegie Corporation of New York, CSIS-NPWG Emerging Technologies Project	2018-2019
MacArthur Foundation, Naval Nuclear Safeguards Project	2016-2017

**TEACHING EXPERIENCE**

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**Department of International and Area Studies**

**University of California, Berkeley**

*Lecturer*

May 2015 - August 2016

- International and Area Studies 150: Global Governance and International Organizations

**Department of Political Science**

**Dominican University of California, San Rafael**

*Adjunct Instructor*

August 2016 - May 2019

- Political Science 1500: Introduction to International Relations
- Political Science 3624: European Politics and the EU
- Political Science 1600: Comparative Politics
- Political Science 3524: Model United Nations
- Political Science 3525: The United States and National Security

**Department of Political Science**

**University of California, Berkeley**

*Graduate Student Instructor*

January 2014 - December 2017

- Political Science 123B: International Security
- Political Science 123H: Religion and Conflict
- Political Science 123M: International Conflict Management
- Global Studies 10A: Introduction to Global Studies

**PROFESSIONAL SERVICE**

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Deputy Director, Nuclear Policy Working Group

Graduate Convener, UC Berkeley Monday International Relations Speaker Series

Reviewer, *Journal of Cyber Policy*

Reviewer, *Space and Defense*

Chair/Discussant/Member, International Studies Association  
Chair/Discussant/Member, American Political Science Association

## PROFESSIONAL AFFILIATIONS

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Scholar, CSIS PONI Mid-Career Cadre	2019-2022
Practitioner, Military Operations Research Society Community of Practice	2019-
Member, NATO Academic Alliance	2019-
Fellow, Bridging the Gap Network	2018-
Committee Member, RSAC Security Scholar Program	2018-
Member, U.S. STRATCOM Academic Alliance	2018-
Member, American Political Science Association	2014-
Member, International Studies Association	2014-

## AWARDS AND HONORS (SELECTED)

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Hans J. Morgenthau Fellow	2020-2021
International Studies Association Workshop Grant	2020
Nuclear Science and Security Consortium Postdoctoral Fellowship	2019
UCB Department of Nuclear Engineering Policy Fellowship	2018-2019
Graduate Fellow, Nuclear Science and Security Consortium	2018-2019
Henry Robert Braden Fellowship, UC Berkeley	2016
ULB-UCB Fellowship, Université Libre de Bruxelles, Institut d'études européennes	2015
Certificate, CITI/IRB Social and Behavioral Research Investigator (DoE; UC Berkeley)	2018
CSIS PONI Nuclear Scholar	2018
Bridging the Gap NEW Fellow	2017
RSAC Security Scholar	2017
Nuclear Science and Security Consortium PPNT Nuclear Security Scholar	2017
Certificate, Nuclear Terrorism, Stanford University	2017
UC Berkeley Outstanding Teaching Award	2016
Lead Delegate, EU Youth Delegation Mission to the G8	2014
Certificate, Conflict Analysis, U.S. Institute of Peace	2010

## PRESENTATIONS

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### Academic Conferences

- American Political Science Association Annual Conference, San Francisco, CA  
Accepted Paper: Measuring Conflict Escalation: Evidence from SIGNAL Experiments  
Chair: Economics as a Tool of Power September 2020
- Harvard Experimental Political Science Workshop, Cambridge MA  
Paper: Evidence of the Unthinkable: Experimental Wargaming at the Nuclear Threshold April 2020
- International Studies Association Annual Conference, Hawaii HI  
Workshop: War Gaming and Social Science Inquiry: Towards a New Data-Generating Process  
Accepted Paper: Benchmarking SIGNAL: A Cross-Method Comparison of Wargame, Survey, and Conflict Process Data  
Roundtable: The Challenge of Emerging Technologies for Law, Norms, and Arms Control March 2020

- Nuclear Studies Research Initiative (NSRI) Conference, Hamburg GER  
Paper: The Institutional Design of Arms Control Verification Mechanisms December 2019
- ISSS-IS Annual Conference, Denver CO  
Accepted Paper: Gaming at the Nuclear Threshold: How Capabilities Affect Nuclear Use  
Roundtable: Bridging the Strategy Gap with Game Play  
Roundtable: Narrowing the Policy-Academia Gap October 2019
- American Political Science Association Conference, Washington DC  
Panel: Wargaming and Experimental Methods  
Paper: Experimental Gaming at the Nuclear Threshold September 2019
- International Studies Association Annual Conference, Toronto ON:  
Paper: The Diminishing Returns of Arms Control, Junior Scholar Symposium  
Paper: Project on Nuclear Gaming: Modeling Conflict Escalation  
Roundtable: Wargames and IR Scholarship  
Roundtable: New Developments in Nuclear Arms March 2019
- International Studies Association Annual Conference, San Francisco, CA:  
Paper: Securitization by Design: Governing the Spread of Deadly Technology. April 2018

### Workshops

- Nuclear Science and Security Consortium Showcase June 2020
- AFWERX Future of Wargaming Showcase February 2020
- LLNL Nuclear Risk Reduction Workshop February 2020
- CSIS Emerging Arms Control Expert Working Group January 2020
- 59th ISODARCO Meeting January 2020
- CSIS PONI International Exchange  
Presentation: Experimental Wargaming as a Tool for Analysis September 2019
- CONNECTIONS-UK Conference  
Presentation: Experimental Gaming at the Nuclear Threshold September 2019
- Geo-Economic and Geostrategic Dimensions of Great Power Competition Bootcamp, UCSD  
Presentation: Economic Statecraft Exercise August 2019
- Public Policy and Nuclear Threats Bootcamp, UCSD  
Presentation: Social Science, Experimental Gaming, and Nuclear Issues August 2019
- Strategic Force Analysis Bootcamp  
Presentation: Modeling, Simulation, and Nuclear Conflict August 2019
- MIT-NWC Wargaming and Social Science Workshop  
Paper: Wargaming at the Nuclear Threshold July 2019
- CSIS On the Radar Wargame, Facilitator June 2019
- Wilton Park: Deterrence Strategies and European Security, UK June 2019
- UK PONI, Royal United Services Institute (United Kingdom)  
Presentation: Experimental Gaming as a Method  
Seminar: Introducing the SIGNAL Wargaming Framework June 2019
- NATO, Cybersecurity, and Command and Control, Brussels June 2019
- U.S. Deterrence Strategy in the 21st Century, RUSI May 2019
- Social Media and Strategic Stability Workshop, KCL May 2019
- Strategic Communication and Nuclear Deterrence Experimental Wargame, KCL May 2019
- Military Applications of AI and Arms Control, Stanley Foundation May 2019
- LLNL Innovation Conference, LLNL April 2019
- Workshop on Tools for Coordination in AI Development, OpenAI April 2019
- Key Issues in the Current Global Economy, UC Berkeley April 2019
- Carnegie International Nuclear Policy Conference 2019 March 2019
- RSA Conference March 2019

· INDOPACOM S&T Forum	March 2019
· MORS Roundtable: Experimental Gaming and Nuclear Deterrence	February 2019
· Project on Strategic Stability and Emerging Technology (POSSE), King's College London	January 2019
· Research Symposium on Deterrence and Assurance Within An Allied Framework, NATO	January 2019
· Workshop: Developing Wargaming as an Academic Discipline, King's College London	January 2019
· CSIS PONI Conference: Presentation: The Diminishing Returns of Arms Control	December 2018
· Extended Deterrence, Assurance, Nonproliferation and Disarmament, Wilson Center	November 2018
· Multi-Domain Strategic Competition: Rewards and Risks, 5th Annual LLNL Deterrence Workshop	November 2018
· Aspen Institute Cyber Summit, San Francisco	November 2018
· Military Operations Research Society (MORS): Cyberspace and Wargaming	October 2018
· Artificial Intelligence and Strategic Stability, LLNL	September 2018
· RAND-Carnegie Strategic Stability Bootcamp	August 2018
· U.S. STRATCOM Deterrence Symposium	August 2018
· Institute of Nuclear Material and Management Annual Conference	July 2018
· U.S.-Russian Arms Control Workshop, LLNL	July 2018
· University Program Review, DoE NNSA NA-20, University of Michigan	June 2018
· World Affairs Council of Marin: Presentation: <a href="#">Strategic Weapons in the 21st Century</a>	April 2018
· CSIS PONI Capstone Conference 2018, U.S. Strategic Command	April 2018
· RSA Conference	April 2018
· Emerging Technology, Shifting Power Balances, and Nuclear Stability, Atlantic Council	March 2018
· Strategic Weapons in the 21st Century, Lawrence Livermore National Lab and Los Alamos National Lab, Washington, DC.	March 2018
· Cybersecurity and Industrial Policy Workshop Series: UC Berkeley and UCSD's IGCC	April 2017
· Public Policy and Nuclear Threats (PPNT) Boot Camp, UC Institute on Global Conflict and Cooperation	July 2017
· CSIS PONI Conference, Lawrence Livermore National Laboratory	June 2017
· IAEA PREPCOM	May 2017
· Bridging the Gap New Era Workshop	March 2017
· RSA Conference (Security Scholar's Program)	February 2017
· Space and the Third Offset, Lawrence Livermore National Laboratory	August 2016

## REFERENCES

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Vinod K. Aggarwal: Professor, University of California, Berkeley: [vinod@berkeley.edu](mailto:vinod@berkeley.edu)  
Bethany L. Goldblum: Executive Director, Nuclear Science and Security Consortium: [bethany@nuc.berkeley.edu](mailto:bethany@nuc.berkeley.edu)  
Ron E. Hassner: Professor, University of California, Berkeley: [hassner@berkeley.edu](mailto:hassner@berkeley.edu)  
Michaela Mattes: Professor, University of California, Berkeley: [m.mattes@berkeley.edu](mailto:m.mattes@berkeley.edu)  
Michael Nacht: Professor, Goldman School of Public Policy, University of California, Berkeley: [mnacht@berkeley.edu](mailto:mnacht@berkeley.edu)  
Jason Reinhardt: Director, Sandia National Laboratories: [jcreinh@sandia.gov](mailto:jcreinh@sandia.gov)  
Brad Roberts: Director, Center for Global Security Research (LLNL): [roberts86@llnl.gov](mailto:roberts86@llnl.gov)  
Steven Weber: Professor, University of California, Berkeley: [steve\\_weber@berkeley.edu](mailto:steve_weber@berkeley.edu)