

Dennis Murphy

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Education

Georgia Institute of Technology, Sam Nunn School of International Affairs Atlanta, Georgia
PhD, International Affairs, Science, and Technology 2021 – Present

Graduate Certificate in International Security and Aerospace Systems

Harvard University, Belfer Center for Science and International Affairs Boston, Massachusetts
Predoctoral Fellow in International Security 2026 – Present

Notre Dame, O'Brien Notre Dame International Security Center Remote
Hans J. Morgenthau Predoctoral Fellowship in Grand Strategy 2025 – 2026

Johns Hopkins SAIS Washington, DC
Master of Arts, Strategic Studies and International Economics 2018 – 2020

Tsinghua University (清华大学) Beijing, China
Master of Law, Chinese Politics and Foreign Policy 2017 – 2018

American University Washington, DC
Bachelor of Arts, International Studies 2014 – 2016

Recent Work Experience

Georgia Tech Research Institute Atlanta, Georgia
Graduate Research Fellow under Drs. Jon Lindsay and Courtney Crooks August 2023 – Present
Geopolitics and Frontier AI, AI Diffusion, U.S.-China Competition, Military Applications

Frontier Security Institute Remote
Research Fellow June 2026 – Present
Frontier AI and National Security

RAND Corporation Washington, DC / Remote
Summer Associate / Adjunct May 2023 – Present
DOW AI Workforce Development, AI Governance, Critical Infrastructure Security, Truth Decay

Astra Research Fellow Berkeley, California
National Security Policy Research Fellow with IAPS January 2026 – June 2026
Military Applications of Frontier AI Systems, Operational Decision Support Systems

Lawrence Livermore National Lab - Center for Global Security Research Livermore, California
Graduate Research Associate September 2025 – December 2025
Geopolitics of AI, US and China Tech Competition re: Computing Resources, Deterrence

Cambridge University ERA AI Governance Fellowship Cambridge, UK
AI Governance Research Fellow June 2025 – September 2025
AI Governance and International Security, China's Approach to AI Risk – Escalatory and Existential

II Corps Washington, DC
Northeast Asia Subject Matter Expert Spring–Summer 2023
Revised and reorganized Marine Corps University's introductory PME book for Northeast Asia

Academic Publications and Other Research

Dennis Murphy. "The Geopolitics of Compute in the Aftermath of the AI Diffusion Framework" *Journal of Cyber Policy*. April, 2026. 1–22.

Zheng-Xin Yong, Parv Mahajan, Andy Wang, Ida Caspary, Yernat Yestekov, Zora Che, Mosh Levy, Elle Najt, Dennis Murphy, Prashant Kulkarni, Lev McKinney, Kei Nishimura-Gasparian, Ram Potham, Aengus Lynch, and Michael L. Chen. "An Independent Safety Evaluation of Kimi K2.5" *arXiv preprint*, April 2026.

Dennis Murphy and Lawrence Rubin. "The Fourth Industrial Revolution and International Security." *Survival* 67 (1): 159–72. February 7, 2025.

Grant S. Schlichting, Ananth Reddy, Dennis Murphy, Juan Oroz, Olivia J. Pinon Fischer and Dimitri N. Mavris. "Contested Logistics Operating Under Digital Support," AIAA 2024-0481. *AIAA SCITECH 2024 Forum*. January 2024.

RAND Research

—. "CDAO Responsible AI Workforce Development," *The RAND Corporation*. Under internal review.

Ray Block Jr., David Luckey, Dennis Murphy, Fernando Esteves, Clay Strickland. "Rebalancing the Information Ecosystem and Renewing Shared Societal Commitments for Information Use," *The RAND Corporation*. October 27, 2025.

Matthew Sargent, Mary Lee, Dennis Murphy, and Sabahat Zafar. "Assessing the value of a CERN for AI," *The RAND Corporation*. August 13, 2025.

Dennis Murphy. "Why the Decline of Local Media Could Be a Security Risk." *The RAND Corporation*, August 8, 2024.

Bridget R. Kane, Stephen Webber, Katherine H. Tucker, Sam Wallace, Joan Chang, Devin McCarthy, Dennis Murphy, Daniel Egel, Tom Wingfield. "Threats to Critical Infrastructure: A Survey," *The RAND Corporation*. June 11, 2024.

Bridget R. Kane, Stephen Webber, Katherine H. Tucker, Sam Wallace, Joan Chang, Devin McCarthy, Dennis Murphy, Daniel Egel, Tom Wingfield. "Defending the United States Against Critical Infrastructure Attacks: Exploring a Hypothetical Campaign of Cascading Impacts," *The RAND Corporation*. June 11, 2024.

Conference Papers

Dennis Murphy and Andrew Reddie "Have We Been Here Before? Second Mover Advantages in China's AI Market," *International Studies Association*. March 2026.

Dennis Murphy. "The Geopolitics of Compute," *American Political Science Association*, September 2025.

Grant S. Schlichting, Ananth Reddy, Dennis Murphy, Juan Oroz, Olivia J. Pinon Fischer, Alicia Sudol, Matthew French and Dimitri N. Mavris. "JADC2 in a Contested Logistics Environment: The Role of Digital Twins," *NATO AVT-369 Research Symposium on Digital Twin Technology Development and Application for Tri Service Platforms and Systems*. October 2023.

Dennis Murphy. "Generating Geopolitics: Generative Artificial Intelligence and International Security," *International Studies Association Virtual Session*. July 2023.

Nathaniel Dailey, Kevin Toner and Dennis Murphy. "Employing a Shared Space Information Sharing Ecosystem as a Mechanism for Promoting Constructive U.S. China Space Relations," *Advanced Maui Optical and Space Surveillance Technologies (AMOS) Conference*. September 2022.

Dennis Murphy. "The White Horse Lord: Gongsun Zan and the Early Medieval Transition," *Fifth Conference of the Early Medieval China Group*. April 2022.

Dennis Murphy. "North American Telecommunications Modernization." *Association for Canadian Studies in the United States*. November 2019.

Select Other Policy Publications

Dennis Murphy. "Why Iran targeted Amazon data centers and what that does – and doesn't – change about warfare" *The Conversation*, April 1, 2026. French edition published on April 4, 2026.

Adam Stulberg and Dennis Murphy. "Deciphering Russia's Playbook: Lessons From the Lead-Up to Putin's War in Ukraine," *Program on New Approaches to Research and Security in Eurasia (PONARS Eurasia) Policy Memo*. November 2022.

Dennis Murphy. "Sorting Through the Noise: The Evolving Nature of the Fog of War." *The Strategy Bridge*, September 10, 2022.

Dennis Murphy. "The Homunculi Are Coming: GPT-2 and GANs Will Enable Automated Disinformation." *Medium*, August 25, 2020.

Presentations

U.S. and PRC AI Trajectories Workshop, "China's AI Advantages" UC Berkeley's Berkeley Risk & Security Lab, May 2026

Non-Governmental Actors Shaping Technology Workshop. "Losing the Race? China's Compute Indigenization Efforts" University of New Hampshire, February 2026.

Lawrence Livermore National Lab's Center for Global Security Research. "China's Compute Indigenization Efforts" Livermore California, November 2025.

New Voices in National Security: Bridging the Gap. "Deep Ignorance: You Can Filter Away CBRN Risks." Washington DC Workshop Presentation, October 2025.

Cambridge ERA Fellowship, "Critical Uncertainties in China's Approach to AI Safety and Escalatory Risks." Cambridge Meridian, August 2025.

2025 Summer Graduate Conference, "The Geopolitics of Compute" George Mason IHS Virtual Conference. May 2025.

Journal of Cyber Policy Paper Workshop "Governing AI in a Free Society," Georgia Tech's Internet Governance Project. February 2025.

Youth Internet Governance Forum India. "Generative Artificial Intelligence and International Security." United Nations Internet Governance Forum Secretariat, September 2024.

Critical Infrastructure Security and Resilience Guest Lecture. "The Polar Silk Road." Georgia Tech's School of Cybersecurity and Privacy, September 2024 and September 2023.

RAND Summer Seminar. "CERN For AI? Three Visions." The RAND Corporation, August 2024.

Science, Technology, and International Affairs (STAIR) Workshop Presentation. "The Market for Fakes: Authenticity and Uncertainty in AI-Enabled Disruption of Signaling in International Politics." Atlanta, Georgia, February 2024.

RAND Summer Seminar. "Critical Infrastructure Wargame Research Support." The RAND Corporation, Washington DC, August 2023.

Deputy Secretary of Homeland Security. "Contested Logistics Operating Under Digital Support." Atlanta, Georgia, October 2022.

Deputy Director of Naval Intelligence. "Minerva Initiative Research Support on Russian Coercion and Great Power Competition." Atlanta, Georgia, December 2021.

Carnegie-Tsinghua Center. "Assessing US-China Relations." Beijing, China, April 2018.

Academic and Professional Development

Hans J. Morgenthau Fellowship on Grand Strategy at ONDISC	2025 – 2026
Summer Workshop on the Analysis of Military Operations and Strategy	Summer 2025

Bridging the Gap NEW Era Workshop	Fall 2024
International Policy Scholars Consortium and Network Junior Scholars Program	2023 – 2024
Council on Foreign Relations Young Policy Professionals Briefing Series	2021 – 2024
Clements Center Summer Seminar in History and Statecraft Fellowship	Summer 2022
University of California San Diego’s Nuclear Threats and Public Policy Boot Camp	Summer 2021

Academic Honors

Georgia Tech Research Institute Graduate Student Fellowship	2023 – Present
Jack Kent Cooke Graduate Award Scholarship	2017 – 2020
Johns Hopkins SAIS-Tsinghua University Next Generation Fellowship	2017 – 2020
Phi Beta Kappa Honors Society	January 2017
American University Honors in International Studies	December 2016
Magna Cum Laude	December 2016
Jack Kent Cooke Undergraduate Transfer Scholarship	2014 – 2016
Phi Theta Kappa Transfer Scholarship	2014 – 2016

Leadership and Service

Stanford Cognitive Security Task Force – Palo Alto, California (remote)	2026 – Present
Sign-Speak – Rochester, New York (remote)	2022 – 2026
Reviewer for <i>ICML Technical AI Governance Research</i> – Remote	2026
Reviewer for <i>Security Studies</i> – Remote	2025
Graduate Student Government Association – Atlanta, Georgia	2021 – 2022
Strategic Studies Speaker Series Coordinator – Washington, DC	2019 – 2020
PeaceKidZ Volunteer Fifth Grade Lecturer – Washington, DC	Fall 2019
Tsinghua Ambassador Talks – Tsinghua University, Beijing	2017 – 2018
Tsinghua-SAIS Cohort Event Planner – Tsinghua University, Beijing	2017 – 2018
Cross-Campus Organizing Network – Washington, DC	2017 – 2018