

Nadiya Kostyuk

CONTACT INFORMATION	School of Public Policy Ivan Allen College of Liberal Arts Georgia Institute of Technology 685 Cherry St NW Atlanta, GA 30332	<i>email:</i> nkostyuk3@gatech.edu <i>www:</i> https://nadiyakostyuk.spp.gatech.edu/ <i>Google Scholar:</i> Nadiya Kostyuk
RESEARCH INTERESTS	<i>Substantive:</i> Security studies, modern warfare, cyber conflict, cyber institutions and capability, Russian and Eurasian politics <i>Methodological:</i> applied statistics, spatial/network analysis, text analysis	
ACADEMIC EMPLOYMENT	Assistant Professor, Georgia Institute of Technology, School of Public Policy Assistant Professor, Georgia Institute of Technology, School of Cybersecurity and Privacy	2020- 2021-2023
EDUCATION	Ph.D., University of Michigan (Political Science & Public Policy) Pre-doctoral Fellowship, Tufts University, Fletcher School Pre-doctoral Fellowship, Harvard University, Belfer Center M.A., University of Michigan (Political Science) M.S., New York University (Global Affairs) B.A., CUNY John Jay College of Criminal Justice(International Criminal Justice) B.A., Kyiv National Linguistic University (English & Psychology)	2020 2019-2020 2017-2018 2016 2013 2011 2007
PEER-REVIEWED PUBLICATIONS	<ol style="list-style-type: none">16 Kostyuk, Nadiya. “Allies & Diffusion of State Military Cybercapacity.” <i>Accepted, Journal of Peace Research.</i>15 Kostyuk, Nadiya, and Erik A. Gartzke. “Fighting in Cyberspace: Internet access and the substitutability of cyber and military operations.” <i>Journal of Conflict Resolution</i> (2023).14 Shandler, Ryan, Nadiya, Kostyuk, and Harry Oppenheimer. “Public Opinion & Cyber-Terrorism,” <i>Public Opinion Quarterly</i> 87:1 (2023).13 Kostyuk, Nadiya & Aaron Brantly. “War in the borderland through cyberspace: Limits of defending Ukraine through interstate cooperation.” <i>Contemporary Security Policy</i> 43:3 (2022): 498-515.12 Kostyuk, Nadiya, and Erik A. Gartzke. “Indirect Substitution of Cyber and Military Operations: Why cyber dogs have yet to bark loudly in the invasion of Ukraine.” <i>Texas National Security Review, Summer 2022.</i>11 Kostyuk, Nadiya and Susan Landau. “Dueling over Dual_EC_DRBG: The Consequences of Corrupting a Cryptographic Standardization Process.” <i>Harvard National Security Journal</i> 13:2 (2022): 224-284.10 Kostyuk, Nadiya. “Deterrence in the Cyber Realm: Public versus private cybercapacity.” <i>International Studies Quarterly</i>, 28 May 2021.9 Kostyuk, Nadiya, and Carly Wayne. “The Microfoundations of State Cybersecurity: Cyber Risk Perceptions and the Mass Public.” <i>Journal of Global Security Studies</i>, 12 March 2020.8 Zhukov, Yuri M., Christian Davenport, and Nadiya Kostyuk. “xSub: Cross-National Data on Sub-National Violence.” <i>Journal of Peace Research</i> 56.4 (2019): 604-614.7 Kostyuk, Nadiya, and Yuri M. Zhukov. “Invisible Digital Front: Can Cyber Attacks Shape Battlefield Events?.” <i>Journal of Conflict Resolution</i> 63. 2 (2019): 317-347.<ul style="list-style-type: none">• Press: Washington Post / Monkey Cage• Press: Belfer Center for Science and International Affairs / Harvard Kennedy School6 Liang, Fan, Vishnupriya Das, Nadiya Kostyuk, and Muzammil M. Hussain. “Constructing a Harmonious Data-Driven Society: China’s Social Credit System as a State Surveillance Infrastructure.” <i>Policy & Internet</i> 10. 4 (2018): 415-453.	

- 5 **Kostyuk, Nadiya**, Scott Powell, and Matthew Skach. “Determinants of the Cyber Escalation Ladder.” *Cyber Defense Review* 3.1 (2018): 122-130.
- 4 **Kostyuk, Nadiya**. “International and Domestic Challenges to Comprehensive National Cybersecurity: A case study of the Czech Republic.” *Journal of Strategic Security* 7.1 (2014): 68-82.
- 3 **Kostyuk, Nadiya**. “The Digital Prisoner’s Dilemma: Transnational Dimensions of Cybersecurity and Opportunities for Cooperation.” *Institute of Electrical and Electronics Engineers (IEEE)* (2015).
- Reprinted in *Silicon Valley Summit, World Cyberspace Cooperation Summit IV, EastWest Institute*, 2013.
- 2 **Kostyuk, Nadiya**. “The Digital Front: Preemptive Approaches to Cyberwarfare.” *Partnership for Research in International Affairs and Development* 2 (2013).
- 1 Ali, Marielle, and **Nadiya Kostyuk**. “The Cyber Dogs of War: Joint transatlantic efforts of future leaders in the prevention of cyberwarfare.” *The Society of Digital Information and Wireless Communications (SDIWC), Digital Library* (2013).
- UNDER REVIEW 2 **Kostyuk, Nadiya**, Evan Perkoski, and Poznansky, Michael. “The Sources of Cyber Strategy.” *Under Review*.
- 1 **Kostyuk, Nadiya** and Ryan Shandler. “Pushing the Limits of Public Opinion Toward Foreign Policy Issues.” *Under Review*.
- WORKING PAPERS 8 “Global Surveillance and Censorship Scores Dataset” (with Chris Fariss and Yuree Noh)
- 7 “War and the Internet: Tactical Use of Cyber Operations” (with Zachary Bischoff, Alberto Dainotti, Emily Kim, Jon Lindsay, Amanda Meng, and Yuri Zhukov)
- 6 “Sources of Biases in Cyber Operations Datasets” (w/ Jon Lindsay and Kangkyu Lee)
- 5 “State Cyber Capacity: A Latent Measure” (with J. Andres Gannon and Philipp Lutscher)
- 4 “The Politics of Diplomacy in Cyberspace” (with Anita Gohdes)
- 3 “Diffusion of National Cybersecurity Strategies” (with Evgenia Sidorova)
- 2 “Diffusion of State Cybersecurity Strategy.”
- Winner BigSurv20 student paper award competition
- 1 “Division of Power and Accountability: Measuring Audience Costs in International Disputes” (with James D. Morrow, and Todd C. Lehmann)
- BOOK CHAPTERS 3 **Kostyuk, Nadiya** and Jen Sidorova. “How Cyber Technologies Proliferate,” In: *Handbook of Cyberwarfare*, Tim Stevens and Joseph Devanny ed., Elgar Handbooks, *Invited to Submit, in Preparation*.
- 2 Erik A. Gartzke, **Kostyuk, Nadiya**, and Jon Lindsay. “Cyber: Complements and Substitutes,” In: *Elements of Deterrence: Strategy, Technology, and Complexity in Global Politics*, Erik Gartzke and Jon Lindsay ed., Oxford University Press, *Forthcoming*.
- 1 **Kostyuk, Nadiya**. “Ukraine’s Cyber Security Policy,” In: *Cyber War in Perspective: Analysis from the Crisis in Ukraine*, K Geers ed., NATO CCD COE (2015).
- Press: Council on Foreign Relations / Net Politics
- POLICY WHITE PAPERS 2 “Issue II: Russia-U.S. Bilateral on Cybersecurity: Critical Terminology Foundations,” *EastWest Institute & the Information Security Institute of Moscow State University* (2014), *Contributing author*.
- 1 Cappon, Eric, Greg Austin, **Nadiya Kostyuk**, and Bruce McConnell. “A Measure of Restraint in Cyberspace: Reducing Risk to Civilian Nuclear Assets,” prepared for the Munich Security Conference, *EastWest Institute* (2014).

GENERAL
AUDIENCE
PUBLICATIONS

- 14 **Kostyuk, Nadiya** and Erik Gartzke. “Cyberattacks have yet to play a significant role in Russia’s battlefield operations in Ukraine – cyberwarfare experts explain the likely reasons” *The Conversation*, 4 April 2022.
- 13 Maschmeyer, Lennart and **Nadiya Kostyuk**. “There is no Cyber ‘Shock and Awe’: Plausible Threats in the Ukrainian Conflict” *War on the Rocks, Peer-Reviewed*, 8 February 2022.
- 12 Jun, Jenny and **Nadiya Kostyuk**. “The Pros and Cons of Mandating Reporting From Ransomware Victims” *Lawfare*, 1 November 2021.
- 11 Geers, Kenneth, and **Nadiya Kostyuk**. “Hackers are using malware to do reconnaissance in U.S. swing states. Expect cyberattacks.” *The Washington Post: Monkey Cage*, 5 November 2018.
- 10 **Kostyuk, Nadiya**. “How Ukraine’s Government Has Struggled to Adapt to Russia’s Digital Onslaught,” *Council on Foreign Relations: Net Politics*, 27 August 2018.
 - Press: UNIAN / Information Agency
- 9 Russell, Stuart, and **Nadiya Kostyuk**. “Evaluating the U.K.’s ‘Active Cyber Defence’ Program.” *Lawfare*, 14 February 2018.
- 8 **Kostyuk, Nadiya**, and Yuri M. Zhukov. “Would cyberattacks be likely in a U.S.-North Korea conflict? Here’s what we know.” *The Washington Post: Monkey Cage*, 11 November 2017.
- 7 **Kostyuk, Nadiya**. “Hacking Power Grids: New Tactic of War or Wave of the Future?” *Russia Matters*, Belfer Center for Science and International Affairs, Harvard Kennedy School, 3 November 2017.
- 6 **Kostyuk, Nadiya**. “A Ukrainian *Game of Thrones*: A Close Look at the Ukrainian Presidential Candidates,” *EastWest Institute: Next Generation*, 1 July 2014.
- 5 **Kostyuk, Nadiya**. “Chernobyl: Political Half-life of an Ongoing Nuclear Crisis,” *EastWest Institute: Next Generation*, 2 May 2014.
- 4 **Kostyuk, Nadiya**. “*Yednist* (Unity) — Prospects for a United Ukraine amidst Russian Aggression and Western Indecision,” *EastWest Institute: Next Generation*, 14 March 2014.
- 3 **Kostyuk, Nadiya**. “Ukraine: Can it live up to its promise?,” *EastWest Institute: Next Generation*, 27 February 2014.
- 2 **Kostyuk, Nadiya**. “*Unexpected Gift*: Russia’s Intervention in the Global War on Terror Framework,” *Perspectives on Global Issues. Global Citizens Engaging Global Issues*, 7.1. (2012).
- 1 **Kostyuk, Nadiya**. “Ukraine: Back in the USSR?” *Perspectives on Global Issues. Global Citizens Engaging in Global Issues*, 6.1. (2011): 90-91.

SOFTWARE

Zhukov, Yuri M., Christian Davenport, and **Nadiya Kostyuk** (2019). xSub: Cross-National Data on Sub-National Violence. R package version 2.0.2. <https://CRAN.R-project.org/package=xSub> (github page).

OTHER
EMPLOYMENT

The United Nations High Commissioner for Refugees (UNHCR) in Jordan <i>Consultant & Research Analyst</i>	February-May 2019
Dexis Consulting Group <i>Consultant</i> , grant proposal for the United States Agency for International Development (USAID) focused on building cyber capability in Ukraine	March-April 2019
EastWest Institute, Global Cooperation in Cyberspace Initiative <i>Fellow</i>	2014-2020
EastWest Institute, Global Cooperation in Cyberspace Initiative <i>Program Coordinator</i>	2013-2014

GRANTS

- 2022 National Science Foundation RAPID Grant (SES-2226883). “Red lines and Negotiables: How Exposure to Wartime Violence Influences Support for Peace Settlements” (Principal Investigator Thomas Zeitsoff) \$31,434.

HONORS & AWARDS	• Cybersecurity Fellow, Cyber Conflict Studies Association	2018-
	• Associate, Davis Center for Russian and Eurasian Studies, Harvard University	2018-2024
	• Georgia Tech Research Institute Independent Research and Development grant	2022-2023
	• Building Teams and Moving Teams Forward: Building an Interdisciplinary Team to Study Cyber Conflict	2022
	• Georgia Tech Research Institute Independent Research and Development grant	2022
	• IAC Professional Development Award	2022
	• COVID Faculty Relief Fund	2022, 2023
	• IAC Small Grant for Research SGR-C, Georgia Institute of Technology	2021
	• Women, Science, and Technology (WST) Undergraduate Student-Faculty Research Partnerships, Georgia Institute of Technology	2021
	• Pre-doctoral Fellowship, Fletcher School of Law and Diplomacy	2019-2020
	• Graduate Student Associate, Center for Russian, East European, & Eurasian Studies, University of Michigan	2017-2020
	• Rackham Merit Fellowship, University of Michigan	2014-2020
	• Winner, BigSurv20 student paper award competition for “Diffusion of State Cybersecurity Strategy,”	2020
	• International Policy Center Research Scholar Award, University of Michigan	2020
	• Pre-doctoral Fellowship, Belfer Center, Kennedy School, Harvard University	2017-2019
	• Telluride House Scholarship, University of Michigan	2015-2019
	• International Policy Center Research Scholar Award, University of Michigan	2018
	• Kenneth Organski Scholars Award, University of Michigan	2018
	• Research Fellowship, School of International and Public Affairs, Columbia University	2017-2018
	• Rackham Graduate Student Research, University of Michigan	2017, 2016
	• Graduate Student Research Assistant, University of Michigan	2017, 2015
	• ISR-Rackham Summer Training Award, University of Michigan	2016, 2015
	• China Field Trip Travel Grant, University of Michigan	2016
	• Empirical Implications of Theoretical Models, National Science Foundation	2016
	• Diplomacy and Diversity Fellowship, Humanity in Action program	2015
	• Master of Science in Global Affairs Research Fund, New York University	2013, 2012
	• Gallatin Fellowship in Human Rights, New York University	2011-2012
	• Vera Fellowship Stipend, CUNY John Jay College	2010-2011
	• TRIO Ronald E. McNair Program, CUNY John Jay College	2009-2011
	• Funded Internship Award, New York University	2011
	• Undergraduate Research Scholarship, CUNY John Jay College	2011
	• Leonard E. Reisman Award, CUNY John Jay College	2011
• Phi Eta Sigma Honors Society, CUNY John Jay College	2010-	
• Upper Division Scholarship, CUNY John Jay College	2009	
• International Student Scholarship, CUNY John Jay College	2009	
• Thurgood Marshall Scholarship, CUNY John Jay College	2009	
COURSES TAUGHT	Research Paper	Fall 2022
	Independent study (1-5 public policy doctoral students) PUBP 6801, School of Public Policy, Georgia Institute of Technology	
	Cybersecurity Practicum	Fall 2020, Spring 2021/2022
	Graduate capstone project (15-20 public policy and computer science students) Co-taught with Dr. Ahamad CS/PUBP 6727, School of Public Policy, Georgia Institute of Technology	
OTHER TEACHING EXPERIENCE	Directed Research Course	2015-2020
	POLSCI 383, Department of Political Science, University of Michigan Research Mentor. Course head: Prof. Fariss, Prof. Shiraito, and Prof. Zhukov	
	Cybersecurity: Managing Risk in Information Age	Winter 2018
	HarvardX Cybersecurity Course Office of the Provost for Advances in Learning, Harvard University Learning Facilitator. Course head: Prof. Rosenbach	
	Undergraduate Research Opportunity Program (UROP)	Fall 2016-Winter 2017
	Department of Political Science, University of Michigan Research Mentor	

Introduction to World Politics

Fall 2015-Fall 2016

POLSCI 160, Department of Political Science, University of Michigan
 Head Graduate Teaching Instructor. Course head: Prof. Morrow

College Algebra and Introduction to Probability

Spring 2011, 2012

MATH 1014, Mathematics Department, CUNY John Jay College
 Teacher's Assistant. Course head: Prof. Shamoilova

Global Civil Society

Spring 2013

GLOB1-GC1050, Global Affairs, New York University
 Teacher's Assistant. Course head: Prof. Mazzucelli

SELECTED

- Fall 2023:

INVITED TALKS
& GUEST
LECTURES

- Spring 2023: The University of California, San Diego (2/23); Oxford University (3/23); Emory University (4/23); Augusta University (4/23); Central European University (4/23); U.S. Army Cyber Command (6/23)
- Fall 2022: Kennesaw State University (10/22; 11/22); European University Institute (10/22); Occidental College (invited)
- Spring 2022: University of Michigan (3/22); University of Toronto (5/22); University of Haifa (5/22); Lawrence Livermore National Laboratory (5/22); American University (5/22, declined); Georgia Tech Center for International Business (6/22); People's Liberation Army (PLA) Conference (West Point) (7/22, declined); The Alan Turing Institute (6/22, declined); Cornell University (6/22); University of Haifa (7/22, declined)
- Fall 2021: The Hertie School (9/21); Naval War College (9/21); Virginia Tech, Joan Clarke Lecture Series (11/21)
- Spring 2021: University of Michigan (3/21); Cornell University (4/21); University of Oslo (4/21); University of Cincinnati (6/21)
- Fall 2020: Georgia Institute of Technology (9/2020); Stonehill College (10/20); University of Pennsylvania (10/20)
- Fall 2019: University of Haifa (11/19)
- Spring 2019: Stanford University (1/19), Tufts University (1/19, 4/19), Thirteenth International Forum in Garmisch-Partenkirchen (4/2019)
- Fall 2018: International Conference on Cyber Conflict U.S. (11/18), Harvard University (11/18, 12/18), Marine Corps University (12/18), American University (12/18)
- Spring 2018: Harvard University (4/18)
- Fall 2017: CUNY John Jay College (10/17), Columbia University (11/17)
- Spring 2017: University of Michigan, Ann Arbor (4/17), University of California, San Diego (5/17), ETH Zurich (6/17),
- Fall 2016: University of Michigan (7/16), Columbia University (10/16)
- Spring 2016: Tsinghua University (5/16), Duke University (6/16)

SELECTED

- Annual Meeting of the Society for Political Methodology (PolMeth, AsianPolMeth, LAPolMeth) 2020

CONFERENCE

- American Political Science Association, 2017, 2018, 2019, 2021, 2023

PRESENTATIONS

- Conference on Formal Models of International Relations, 2020
- European Political Science Association, 2017
- International Studies Association, 2018-2023
- Midwest Political Science Conference, 2014, 2016, 2018
- Peace Science Society International, 2015, 2017, 2018
- Pacific International Politics Conference, 2017, 2021
- Southern Political Science Association, 2011, 2018
- Visions in Methodology, 2021

SERVICE

University Service

- Faculty Advisor, Emerging Tech and Social Sciences club 2022-
- Founder, Co-Director, Cybersecurity Summer Institute, Georgia Institute of Technology 2021-
- Member, Awards Committee, School of Public Policy
Georgia Institute of Technology 2023
- Member, Faculty Recruitment Committee, School of Public Policy
Georgia Institute of Technology 2022-2023
- Member, Chair Recruitment Committee, School of Cybersecurity and Privacy
Georgia Institute of Technology 2021

- Member, Faculty Recruitment Committee, School of Cybersecurity and Privacy
Georgia Institute of Technology 2020-2021
- Graduate Student Admissions Committee, Ford School, University of Michigan 2017
- Co-Chair, Women’s Caucus, Political Science Department, University of Michigan 2015-2016
- Student Admissions Committee, Telluride Association Program, University of Michigan 2015, 2016

Other Service

- Mentor, American Political Science Association mentoring program 2021-
- Co-founder, Digital Issues Discussion Group 2017-
- Founder, Women in Cyber Security Group 2017-

Panel & workshop organization

- “Digital Issues Discussion Group,” with Christopher Whyte 2017-
 - monthly interactive online workshop series on issues related to the global integration of information technologies
- Paper Panel on “Diffusion of Military Innovation: Causes and Consequences,”
American Political Science Association 2019
- Pre-conference workshop, Peace Science Society Conference 2018 2018
“New research on cyber warfare: insights into the changing nature of peace and war processes”
- Pre-conference workshop, Peace Science Society Conference 2017 [w/ Anita Gohdes] 2017
“War and the Internet: new research on cyber and communications technology”
- Global Cyberspace Cooperation Summit VII; University of California, Berkeley [*Rapporteur*] 2017
 - “Security as an IoT Market Differentiator: The Role of Venture Capitalists in Incentivizing Better Security across the IoT Ecosystem”
 - “Resilient Cities and the Internet of Things: Cyber Resilience and the Modern City”
 - “Safer Cities: Creating the Cyber/Privacy Interlock”
 - “Improving Security through Partnership across the IoT Ecosystem”
- Global Cyberspace Cooperation Summit V, Berlin, Germany [*Chief Editor*] 2014
 - “Modernizing international procedures against cyber-enabled crimes”
 - “Governing and managing the Internet”
- The Worldwide Cybersecurity Cooperation Summit IV, Silicon Valley, CA [*Chief Editor*] 2013
 - “Enhancing International Cooperation for Law Enforcement for Cyber Crime”

Peer Reviewer

- *American Political Science Review, Journal of Politics, International Organization, International Security, Journal of Peace Research, International Studies Quarterly, Conflict Management and Peace Science, Political Science Research and Methods, Political Science, Political Research Quarterly, Journal of Strategic Studies, Games and Economic Behavior, Journal of Global Security Studies, European Journal of International Security, Journal of Strategic Security, Journal of Cybersecurity, International Affairs, Media, War, and Conflict, and Defense and Security Analysis*

PROFESSIONAL ASSOCIATIONS American Political Science Association, International Studies Association, Peace Science Society International, Association for the Study of Nationalities

SKILLS

- Computer Skills: *R* (proficient), *Python*, *Stata* (beginner)
- Languages: Ukrainian (native), Russian (native), German (Intermediate Level Certificate, Goethe-Institute in Kyiv, Ukraine)
- Field Work: Belgium (June 2018), Bosnia & Herzegovina (June-July 2012), China (May 2016), Czech Republic (March, June 2013), Estonia (June 2013, May-June 2018), Germany (June 2018), Greece (June 2018), The Netherlands (June 2012, June 2018), Serbia (June 2012), Switzerland (June 2012), Russia (March 2013), Ukraine (July-August 2012, July-August 2015, June-July 2018)