Nadiya Kostyuk

CONTACT INFORMATION	School of Public Policy Ivan Allen College of Liberal Arts Georgia Institute of Technology *email:* nkostyuk3@gatech.edu 685 Cherry St NW *www:* http://www-personal.umich.edu/~nadiya Atlanta, GA 30332 *Google Scholar:* Nadiya Kostyuk

RESEARCH
INTERESTS

Substantive: Security studies, modern warfare, cyber conflict, cyber institutions and capability, Russian and Eurasian politics
Methodological: applied statistics, spatial/network analysis, text analysis, formal theory

ACADEMIC
EMPLOYMENT

Georgia Institute of Technology, School of Public Policy, Atlanta, GA   2020-
Assistant Professor of Information and Communications Technology

EDUCATION

Ph.D., **University of Michigan**, Ann Arbor, MI   2020
    (Political Science & Public Policy)
Pre-doctoral Fellowship, **Tufts University**   Jan. 2019-July 2020
    Fletcher School and Department of Computer Science, Boston, MA
Pre-doctoral Fellowship, **Harvard University**   2017-2018
    Belfer Center for Science and International Affairs, Cambridge, MA
M.A., **University of Michigan**, Ann Arbor, MI (Political Science)   2016
M.S., **New York University**, New York, NY (Global Affairs)   2013
B.A., **CUNY John Jay College of Criminal Justice**, New York, NY   2011
    (International Criminal Justice)
B.A., **Kyiv National Linguistic University**, Kyiv, Ukraine   2007
    (English & Psychology)

DISSERTATION

Public Cyberinstitutions: Signaling State Cybercapacity

- Committee: James D. Morrow (Co-Chair), Yuri M. Zhukov (Co-Chair), John Ciorciari, Tamar Mitts, Nick Valentino, and Susan Landau (an outside member)

PEER-
REVIEWED
PUBLICATIONS

10 **Kostyuk, Nadiya**. "Deterrence in the Cyber Realm: Public versus private cybercapacity." *International Studies Quarterly*, 28 May 2021.

9 **Kostyuk, Nadiya**, and Carly Wayne. "The Microfoundations of State Cybersecurity: Cyber Risk Perceptions and the Mass Public." *Journal of Global Security Studies*, 12 March 2020.

8 Zhukov, Yuri M., Christian Davenport, and **Nadiya Kostyuk**. "xSub: Cross-National Data on Sub-National Violence." *Journal of Peace Research* 56.4 (2019): 604-614.

7 **Kostyuk, Nadiya**, and Yuri M. Zhukov. "Invisible Digital Front: Can Cyber Attacks Shape Battlefield Events?"." *Journal of Conflict Resolution* 63. 2 (2019): 317-347.
  - Press: Washington Post / Monkey Cage
  - Press: Belfer Center for Science and International Affairs / Harvard Kennedy School

6 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." *Policy & Internet* 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
3 **Kostyuk, Nadiya**, and Erik A. Gartzke. "Fighting in Cyberspace: Technology and the substitutability of cyber and military operations." *Under Review.*

2 **Kostyuk, Nadiya** and Susan Landau. "Persistence of International Institutions: A case study of U.S.-led civilian cryptography." *Under Review, International Organization.*

1 **Kostyuk, Nadiya**, Oppenheimer, Harry, and Ryan Shandler. "Converging Views? Perceptions of Cyber-Terrorism in Three Countries." *Under Review, Journal of Politics.*

WORKING PAPERS
4 **Kostyuk, Nadiya**. "Diffusion of State Cybersecurity Strategy."
  - Winner BigSurv20 student paper award competition

3 **Kostyuk, Nadiya**. "Diffusion of State Military Cybercapacity."

2 **Kostyuk, Nadiya**, Christian Davenport, and Yuri M. Zhukov. "Internet and Dissent in Authoritarian Regimes."

1 **Kostyuk, Nadiya**, Poznansky, Michael, and Evan Peskoski. "The Sources of Cyber Doctrine."

BOOK CHAPTERS
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
12 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.

11 **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

11 Russell, Stuart, and **Nadiya Kostyuk**. "Evaluating the U.K.'s 'Active Cyber Defence' Program." *Lawfare*, 14 February 2018.

10 **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.

9 **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.

8 **Kostyuk, Nadiya**, and Muzammil Hussain. "The Spread of Mass Surveillance, 1995 to Present," *The Center for Political Science, Institute for Social Research, University of Michigan, Ann Arbor,* 2 September 2017.

7 Gilliard, Alexandra, "Cyber Risk and Cyber Policies: Interview with **Nadiya Kostyuk**," *International Affairs Forum: Populism in the Digital Age* 2.1 (2017): 113-116.

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

HONORS & AWARDS

External ($96,839.18)

• Cybersecurity Fellow, Cyber Conflict Studies Association	since 2018
• Associate, Davis Center for Russian and Eurasian Studies, Harvard University	2018-2021
• Winner, BigSurv20 student paper award competition for "Diffusion of State Cybersecurity Strategy," €1,500/$1,839.18	2020
• Pre-doctoral Fellowship, Fletcher School of Law and Diplomacy and the Department of Computer Science, Tufts University ($48,000, 18 months)	Jan. 2019-May 2020
• Pre-doctoral Fellowship, Cybersecurity and Digital Technology Policy Program, Belfer Center for Science and International Affairs, Kennedy School, Harvard University (Non-Resident Fellow)	2018-2019
• Pre-doctoral Fellowship, Cybersecurity and Digital Technology Policy Program, Belfer Center for Science and International Affairs, Kennedy School, Harvard University ($37,500 & health insurance)	2017-2018
• Research Fellowship; Cybersecurity, Internet Governance, Digital Economy, Civic Tech Initiative; School of International and Public Affairs, Columbia University ($10,000)	2017-2018
• Empirical Implications of Theoretical Models, National Science Foundation (lodging, meals, travel)	2016
• Diplomacy and Diversity Fellowship, Humanity in Action program (lodging, meals, travel)	2015

Internal ($136,840)

• *Georgia Institute of Technology*	
• IAC Small Grant for Research SGR-C (Course Release, $7,5000)	Spring 2021

- Women, Science, and Technology (WST) Undergraduate Student-Faculty
  Research Partnerships (paid research assistantship) — Spring 2021
- *University of Michigan, Ann Arbor*
  - Rackham Merit Fellowship ($69,900+tuition+health care) — 2014-2020
  - International Policy Center Research Scholar Award ($2,790) — 2020
  - Telluride House Scholarship (5-year room and board) — 2015-2019
  - Graduate Student Research Assistant ($9,500) — 2015, 2017
  - International Policy Center Research Scholar Award ($7,500) — 2018
  - Kenneth Organski Scholars Award ($6,000) — 2018
  - China Field Trip Travel Grant (lodging, travel, meals) — 2016
  - ISR-Rackham Summer Training Award (tuition for ICPSR classes) — 2015, 2016
  - Rackham Graduate Student Research (Candidacy) Grant ($3,000) — 2017
  - Rackham Graduate Student Research (Pre-candidacy) Grant ($1,500) — 2016
  - Summer Research and Internship Grant ($1,500) — 2015
  - Graduate Student Associate, Center for Russian, East European,
    & Eurasian Studies — 2017-present
  - Rackham Travel Grant — 2017, 2018
  - Conference Travel Grant — 2017
  - Department Dissertation Grant — 2019
  - Conference Travel Grant, Center for Russian, East European, and Eurasian Studies — 2019
  - Conference Travel Grant, Ford School — 2019
  - Conference Travel Grant, International Institute — 2017
- *New York University*
  - Gallatin Fellowship in Human Rights ($5,000) — 2011-2012
  - Funded Internship Award ($1,500) — 2011
  - Master of Science in Global Affairs Research Fund — 2013
  - Master of Science in Global Affairs Concentration Research Fund — 2012
- *City University of New York, John Jay College*
  - TRIO Ronald E. McNair Program ($3,000) — 2009-2011
  - Undergraduate Research Scholarship ($2,000) — 2011
  - Upper Division Scholarship ($2,000) — 2009
  - International Student Scholarship ($2,000) — 2009
  - Thurgood Marshall Scholarship ($1,500) — 2009
  - Vera Fellowship Stipend ($1,000) — 2010-2011
  - Leonard E. Reisman Award — 2011
  - Phi Eta Sigma Honors Society (American Freshman Honor Society) — 2010-present

COURSES TAUGHT	**Cybersecurity Practicum** Graduate capstone project (15-20 public policy and computer science students) Co-taught with Mustaque Ahamad PUBP 6727, School of Public Policy, Georgia Institute of Technology	Fall 2020, Spring 2021
OTHER TEACHING EXPERIENCE	**Directed Research Course** POLSCI 383, Department of Political Science, University of Michigan Research Mentor. Course head: Prof. Chris Fariss, Prof. Yuki Shiraito, and Prof. Yuri M. Zhukov	2015-2020
	Cybersecurity: Managing Risk in Information Age HarvardX Cybersecurity Course, Office of the Provost for Advances in Learning, Harvard University Learning Facilitator. Course head: Prof. Eric Rosenbach	Winter 2018
	Undergraduate Research Opportunity Program (UROP) Department of Political Science, University of Michigan Research Mentor	Fall 2016-Winter 2017
	Introduction to World Politics POLSCI 160, Department of Political Science, University of Michigan Head Graduate Teaching Instructor. Course head: Prof. James D. Morrow	Fall 2015-Fall 2016
	College Algebra and Introduction to Probability MATH 2014, Mathematics Department, CUNY John Jay College Teacher's Assistant. Course head: Prof. Rita Shamoilova	Spring 2011, 2012

Global Civil Society Spring 2013
GLOB1-GC1050, Global Affairs, New York University
Teacher's Assistant. Course head: Prof. Colette Mazzucelli

SELECTED INVITED TALKS & GUEST LECTURES	• Spring 2021: University of Michigan (3/2021); Cornell University (4/2021); University of Oslo (4/2021); University of Cincinnati (6/21) • Fall 2020: Georgia Institute of Technology (9/2020); Stonehill College (10/2020); University of Pennsylvania (10/2020) • Fall 2019: University of Haifa (11/2019) • Spring 2019: Stanford University (1/2019), Tufts University (1/2019, 4/2019), Thirteenth International Forum in Garmisch-Partenkirchen (4/2019) • Fall 2018: International Conference on Cyber Conflict U.S. (11/2018), Harvard University (11/2018, 12/2018), Marine Corps University (12/2018), American University (12/2018) • Spring 2018: Harvard University (4/2018) • Fall 2017: CUNY John Jay College (10/2017), Columbia University (11/2017) • Spring 2017: University of Michigan, Ann Arbor (4/2017), University of California, San Diego (5/2017), ETH Zurich (6/2017), • Fall 2016: University of Michigan (7/2016), Columbia University (10/2016) • Spring 2016: Tsinghua University (5/2016), Duke University (6/2016)

SELECTED CONFERENCE PRESENTATIONS	• Annual Meeting of the Society for Political Methodology (PolMeth, AsianPolMeth, LAPolMeth) 2020 • American Political Science Association, 2016, 2017, 2018, 2019, 2021 • Association for the Study of Nationalities, 2016, 2018 • Conference on Formal Models of International Relations, 2020 • European Political Science Association, 2017 • International Communication Association Conference, 2017 • International Conference on Cyber Security, Cyber Peacefare & Digital Forensics, 2013 • International Studies Association, 2017-2021 • Midwest Political Science Conference, 2014, 2016, 2018 • Peace Science Society International, 2015, 2017, 2018 • Pacific International Politics Conference, 2017 • Southern Political Science Association, 2011, 2018 • Visions in Methodology, 2020 • Worldwide Cybersecurity Cooperation Summit, 2013-2017

SERVICE

University Service

• 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-present
• Co-founder, Digital Issues Discussion Group	2017-present
• Founder, Women in Cyber Security Group	2017-present
• Member, Research Advisory Group, Global Commission on the Stability of Cyberspace	2017-present

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, 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*

Panel & workshop organization

• "Digital Issues Discussion Group," with Christopher Whyte	2017-present

- 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"

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

RESEARCH EXPERIENCE
- Data Analyst, The Office of the United Nations High Commissioner for Refugees in Jordan
- Chief Data Scientist, *Cross-National Data on Subnational Violence (xSub)*, Center for Political Studies, University of Michigan
- Research Assistant for Christopher J. Fariss, Yuri M. Zhukov, Christian Davenport, Robert Axelrod, William Zimmerman

ADDITIONAL TRAINING
- ICPSR Summer Program in Quantitative Methods of Social Research
  Advanced Game Theory, Regression I, University of Michigan 2014-2016
- Prague Security Studies Institute (PSSI) w/ NATO's Public Diplomacy Division
  9th Annual PSSI NATO Summer School, Merin, Czech Republic 2013
- The International Conference on Cyber Security and Digital Forensics
  CyberSec-School 2013 Summer School, Kuala Lumpur, Malaysia 2013
- Soliya Connect Program, Certificate of Completion, New York 2013
- John Jay College Cybersecurity Training
  Segment Training Cyber-Crime, New York 2012

SKILLS
Computer Skills:
- *R, Python, Stata*

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)