

Curriculum Vitae

Eric Jardine, Ph.D.

Department of Political Science, Virginia Tech

Current as of January 21, 2019

Contact Information

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Current Positions

Assistant Professor (e-governance and cybersecurity), Department of Political Science, Virginia Polytechnic Institute and State University, August 2016 – Present.

- I research governance challenges in cybersecurity, with a specific focus on measurement issues in information security and the uses and abuses of the Dark Web. I bring social science tools to the study of these problems, with a focus on building up a theoretically informed and yet empirically grounded understanding of our new digital reality.

CIGI Fellow, Centre for International Governance Innovation (CIGI), August 2016 – Present.

- Since the summer of 2016, I have been a non-resident CIGI Fellow. In this capacity, I contribute in a number of ways to CIGI's wider work on cybersecurity and Internet governance. A primary part of this work includes overseeing the annual *CIGI/Ipsos Global Survey on Internet Security and Trust*. I am also currently a co-investigator on a Canadian Department of Public Safety grant aimed at assessing the state of security among Canadian Internet service providers.

Education

Doctorate of Philosophy in International Affairs, Norman Paterson School of International Affairs, Carleton University, awarded May 2014.

- Nominated for the Senate Medal for Outstanding Academic Achievement, 2014
- Dissertation, *The Insurgent's Dilemma*. Committee: Chancellor's Professor Fen Osler Hampson (Chair), Professor Dane Rowlands, and Assistant Professor Jeremy Littlewood

Master of Arts in Political Science, Carleton University, awarded May 2009.

Bachelor of Arts (Honours) in Political Science, University of Calgary, awarded May 2007.

Peer-Reviewed Publications

Books

Eric Jardine [with Fen Hampson]. 2016. *Look Who's Watching: Surveillance, Treachery and Trust Online*. Waterloo: Centre for International Governance Innovation.

Scholarly Peer-Reviewed Articles

Eric Jardine, 2019. "The trouble with (supply-side) counts: the potential and limitations of counting sites, vendors or products as a metric for threat trends on the Dark Web." *Intelligence and National Security*, vol. 34, no. 1, 95-111.

Eric Jardine, 2018. "Tor, what is it good for? Political repression and the use of online anonymity-granting technologies." *New Media & Society*, vol. 20, no. 2, 435-452.

Eric Jardine, 2018. "Mind the denominator: towards a more effective measurement system for cybersecurity." *Journal of Cyber Policy*, vol. 3, no. 1, 116-139.

Eric Jardine. 2017. "Privacy, censorship, data breaches and Internet freedom: The drivers of support and opposition to Dark Web technologies," *New Media & Society*. Online First, 1-20.

Eric Jardine. 2017. "'Something is Rotten in the State of Denmark: Why the Internet's Advertising Business Model is Broken.'" *First Monday*, July, 2017. Available at: <http://firstmonday.org/ojs/index.php/fm/article/view/7087>

Eric Jardine and Simon Palamar, "Numerous, Capable and Well-Funded Rebels: Insurgent Military Effectiveness and Deadly Attacks in Afghanistan," *Terrorism and Political Violence*, Vol. 27, no. 4 (2015), 628-656.

Eric Jardine, "Indigenous Security Forces, Counterinsurgent Control, and Green-on-Blue Attacks: Explaining Why 'Insider' Violence has Risen in Afghanistan," *Joint Force Quarterly*, Vol. 71 (2013), 79-83.

Eric Jardine and Simon Palamar, "From Medusa Past Kantolo: Assessing the Effectiveness of Canada's Enemy-Centric and Population-Centric Counterinsurgency Strategies," *Studies in Conflict and Terrorism*, Vol. 36, no. 7 (July 2013), 588-608.

Eric Jardine and Simon Palamar, Special Issue Guest Editor, "Canada and Asia: Building a New Policy Agenda," *Canadian Foreign Policy Journal*, Vol. 18, no. 3 (2012).

Eric Jardine, "The Tacit Evolution of Coordination and Strategic Outcomes: Evidence from the Soviet War in Afghanistan," *Journal of Strategic Studies*, Vol. 35, no. 4 (2012), 541-572.

Eric Jardine, "Controlling Territory and Population During Counterinsurgency: State Security Capacity and the Costs of Power Projection," *Civil Wars*, Vol. 14, no.2 (2012), 228-253.

Eric Jardine, "Population-Centric Counterinsurgency and the Movement of Peoples," *Small Wars & Insurgencies*, Vol. 23, no. 2 (May 2012), 264-294.

Eric Jardine, "The Influence of Military Materiel on Tactics and Strategy in Counterinsurgency: The Case of British Malaya," *Defence Studies*, Vol. 11, no. 4, (2011), 636-656.

Eric Jardine, "City Gods and Village Deities: The Urban Bias in Counterinsurgency Operations," *Military Review*, (July-August 2011), 53-61. [Cover Feature Article]

Eric Jardine, "The Requirements of Success: NATO's Force Posture and the New Strategic Concept," *The Canadian Military Journal*, Vol. 11, no. 3 (Summer 2011), 22-31;

[Also published as Eric Jardine, "Wars of Volition and Wars of Need: NATO's Force Posture and the Commitment to Battle," *A New Strategic Concept for NATO* (Toronto: Atlantic Council of Canada, 2010), 87-103.]

Eric Jardine, "The Insurgent's Response to the Defense of Cities," *Parameters*, Vol. 40, no. 3 (Autumn 2010), 103-117.

Eric Jardine [third author], David Jardine, Rahat Naqvi, and Ahmad Zaidi, "A Zone of Deep Shadow: Pedagogical and Familial Reflections on 'The Clash of Civilizations,'" *Interchange: A Quarterly Review of Education*, Vol. 41, no. 3 (Summer 2010), 1-24;

[Also published as a chapter in David Jardine, *Pedagogy Left in Peace: The Cultivation of Free Space in Teaching and Learning* (New York: Continuum Book, 2012), 23-42.]

Eric Jardine, "Why Time Works Against Counterinsurgency," *The Journal of Military and Strategic Studies*, Vol. 11, no. 4 (Summer 2009), 1-34.

Fully Peer-Reviewed Conference Papers

Eric Jardine. 2017. "Sometimes Three Rights Really Do Make a Wrong: Measuring Cybersecurity and Simpson's Paradox," 16th Annual Workshop on the Economics of Information Security (WEIS), La Jolla, California. Available at: http://weis2017.econinfosec.org/wp-content/uploads/sites/3/2017/07/WEIS_2017_paper_18.pdf

Refereed Policy Papers

Eric Jardine [second author] and Dan Geer, 2017, "Cybersecurity Workload Trends," ;Login:, vol 42, no. 1, 63-66.

Eric Jardine, "The Dark Web Dilemma: Tor, Anonymity and Online Policing?" *Global Commission on Internet Governance Paper Series*, No. 21. (2015).

Eric Jardine, Sam Bradshaw, Laura DeNardis, Fen Hampson and Mark Raymond [equal authorship], "The Emergence of Contention in Global Internet Governance." *Global Commission on Internet Governance Paper Series*, No. 17. (2015).

Eric Jardine, "Global Cyberspace is safer than you Think: Real Trends in Cybercrime." *Global Commission on Internet Governance Paper Series*, No. 16. (2015).

Peer-Reviewed Book Chapters

Eric Jardine, N.D. "Taking the Growth of the Internet Seriously When Measuring Cybersecurity". In Laura DeNardis, Derrick Cogburn, Nanette Levinson, eds. *Internet Governance Research Methods*. MIT Press (in press).

Eric Jardine, N.D. "Optimizing Cyber Deterrence." *The Cyber Deterrence Problem*, Aaron Brantly, ed. (publisher TBD).

Eric Jardine, (2016). "A Continuum of Internet-Based Crime: How the Effectiveness of Cybersecurity Policies Varies across Cybercrime Types." in F. Xavier Olleros and Majlinda Zhegu (eds.) *Research Handbook on Digital Transformations*. Northampton, MA: Edward Elgar, 421-444.

Eric Jardine, "The Weight of History in NATO's Future Course: A Critical Analysis of Vertical and Horizontal Danger," in Sabrina Hoque (ed.) *Geopolitics Versus Global Governance: Reinterpreting International Security*. (Halifax: Centre for Foreign Policy Studies, 2009), 110-131.

Policy-Oriented Papers

Eric Jardine [second author] and Simon Palamar, "Does Canada Need a New Asia Policy?" *Canadian Foreign Policy Journal*, Vol. 18, no. 3 (2012), 251-263.

Eric Jardine, "Urban Bias in Counterinsurgency Operations: The Historical Success of Rural Insurgencies," *On Track*, Vol. 15, no. 2 (Summer 2010), 25-28.

Eric Jardine, "Counterinsurgency Warfare and Decisive Engagements: Combating the Mobility of Insurgencies through the Provision of Greater Arms," *SITREP*, Vol. 70, no. 2 (March-April 2010), 3-6, 13.

Eric Jardine, "Buying the Enemy: Demobilization Programs in the Midst of Counterinsurgency," *Small Wars Journal*, Vol. 6, no. 3 (March 2010), 1-12.

Eric Jardine, "Ukrainian-Russia Relations Set to Improve," *Ukraine Analyst*, Vol. 2, no. 8 (December 2009), 5-6.

Eric Jardine, "Strategy and Symbiosis: The Role of Time during Counterinsurgency," *Strategic Datalink*, No. 14 (December 2009), 1-6.

Eric Jardine, "Domestic Experience and its Effects on Democracy Promotion," *Innovations: A Journal of Politics*, Vol. 8 (2008-2009), 86-98.

Eric Jardine, "Europe's Aggregation of Power: The Need and Desire to Influence International Politics," *The Flinders Journal of History and Politics*, Vol. 25 (2008), 17-38.

Invited Presentations

Eric Jardine. "The Dark Web and Crime in America." University of Calgary, Department of Political Science, October 19, 2018.

Eric Jardine. "Unpacking the Dark Web." Valley TechCon, Harrisonburg, Virginia, September 28, 2018.

Eric Jardine. "Aggregate Cybersecurity Trends and Simpson's Paradox." *S2ERC State of Cybersecurity Conference*, Georgetown, DC. September 20, 2018.

Eric Jardine. "Dark Web Markets and Cryptocurrencies." *Understanding The Dark Web and Its Implications for Policy*, Washington D.C. May 18, 2018.

Eric Jardine. "A Pragmatic Approach to Online Privacy." *TEDx YYC*. June 22, 2018.

Eric Jardine. "4th Global Survey of Internet Users." UNCTAD e-Commerce Week. United Nations, Geneva, Switzerland, April 16, 2018.

Eric Jardine. "Look Who's Watching: Surveillance, Treachery and Trust Online." *CIGI Speaker Series*. CIGI, February 23, 2018.

Eric Jardine. "Cryptocurrencies and Dark Web Illegal Markets," *Money-Laundering, Cryptocurrencies & Cyber-Security*. MacKenzie Institute, November 16, 2017.

Eric Jardine. "Sometimes Three Rights Really Do Make a Wrong: Measuring Cybersecurity and Simpson's Paradox." *Ostrom Workshop Colloquium on Cybersecurity and Internet Governance*, April 26-27, 2017.

Eric Jardine. "Measurement for Description and Prescription in Cybersecurity Data," *Research Methods Workshop*, American University, March 20, 2017.

Eric Jardine. "The Dark Web Dilemma: Some Challenges and Ways Forward for Policymakers." A Hume Center Presentation, October 26, 2016.

Eric Jardine. "Trust and the Internet," *High-level Expert Framing Workshop on Trust in the Digital Economy*, Microsoft Policy and Innovation Center, Washington, D.C, October 20, 2016.

Eric Jardine. "The Dark Web." Co-hosted by the *Royal Canadian Military Institute* and the *Pillar Society*, May 17, 2016. Available at: <https://www.youtube.com/watch?v=1qJJbuYhGrA>

Eric Jardine. "Organized Crime and the Dark at Web." *Conference Board of Canada Webinar*, April 13, 2016. Available at: <http://www.conferenceboard.ca/e-library/abstract.aspx?did=7763>

Eric Jardine. "Cyber Crime," *Inside the Issues*, 6.2. January 20, 2016. Hosted by the Centre for International Governance Innovation. Available at: https://www.youtube.com/watch?v=xPF3W_T5-MQ

Eric Jardine. "The Dark Web Dilemma: Tor, Anonymity and Online Policing." *Conectados para Protegerlos*, February 3, 2016. Hosted by The Colombian Hotline Te Protejo, member of the INHOPE Foundation.

Eric Jardine. "The Dark Web and Public Policy," Government of Canada Fusion Workshop, November 25, 2015. Hosted by Conference Board of Canada.

Conference Presentations

Eric Jardine, "Tor, What is it Good For? Political Rights and Anonymity Granting Technologies." Paper presented at the International Studies Association Annual Convention, New Orleans, February 18-21, 2015.

Eric Jardine, "Tor, What is it Good For? Political Rights and Anonymity Granting Technologies." Paper presented at the Citizen Lab's Summer Institute, Toronto, July 28-31.

Eric Jardine, "Making the People Support You: How and Why Rebel Groups Obtain Popular Support." Paper presented at the International Studies Association Annual Convention, March 26-29, 2014.

Eric Jardine and Simon Palamar, "Medusa to Kantolo: Assessing the Effectiveness of Canada's Counterinsurgency in Kandahar." Presentation at the Centre for International Defence Policy, Queen's University, February 11, 2013.

Eric Jardine and Simon Palamar, "Plentiful, Hale, and Hearty Insurgents: The Empirical Determinants of Deadly Insurgent Attacks in Afghanistan." Conference Presentation at the Midwest Political Science Association (MSPA), April 14, 2012.

Eric Jardine, "Power Projection, Force and Roads: A Model of State Security Capacity and Territorial Control in the Afghan Insurgency." Conference presentation at the 9th Annual CIPSS Graduate Conference: entitled, Revisiting Security, Conflict, and Development 10 Years After 9/11, April 15, 2011.

Eric Jardine, "Population-Centric Counterinsurgency and the Movement of Peoples." Conference presentation at the 13th Annual Conference of Defence Associations Institute: entitled, Canada's Security Interests, October 29-30, 2010. [Honourable Mention].

Eric Jardine, "Wars of Volition and Wars of Need: NATO's Force Posture and the Commitment to Battle." Conference presentation at the Atlantic Council of Canada's Annual Fall Conference: entitled, Crafting NATO's New Strategic Concept, November 24, 2009.

Eric Jardine, "Embracing the Face of Battle: NATO's New Strategic Concept and the Return of Strategic Direction." Conference presentation at the 12th Annual Conference of the Defence Associations Institute: entitled, Canada's National Security Interests, October 30-31, 2009.

Eric Jardine and David Jardine, "A Zone of Deep Shadow." Conference presentation at the 4th Biennial Provoking Curriculum Studies Conference: entitled, An Uncommon Countenance: Provoking Past, Present, and Future Perspectives within Canadian Curriculum Studies, May 21-22, 2009.

Eric Jardine, "Civil-Military Relations in the Post-Soviet Sphere: Why the Military has Remained Duly Beholden." Conference presentation at the 7th Annual REGIS Graduate Student Conference: entitled, 20 Years of Unipolarity Reflections on Regional and Global Security, April 4, 2009. [Awarded a prize for distinguished graduate student research].

Eric Jardine, "The Binding Effect of Time in the Conduct of Counterinsurgency: a Paradoxical inversion of the Principle of Attrition," Conference Presentation at the 11th Annual Strategic Studies and Security Consortium (S3C): entitled, New Strategies for Security: Emergent and Innovative Thought in Security and Defence Studies, March 12-14, 2009. [Awarded a third place prize for academic excellence].

Eric Jardine, "The Weight of the Past in NATO's Future Course: a Critical Analysis of Vertical and Horizontal Danger." Conference Presentation at the 4th Annual Dalhousie Graduate Student Symposium: entitled, Geopolitical vs. Global Governance: Reinterpreting International Security, March 5 to 6, 2009

Eric Jardine, “On the Difference of Means and the Origins of Different Wars.” Conference Presentation at the 11th Annual Conference of the Defence Associations Institute: entitled, Canada’s National Security Interests, October 31-November 1, 2008.

Podcasts

Eric Jardine, “Cyber Crime,” Inside the Issues, CIGI Podcast, January 20, 2016.
https://www.youtube.com/watch?v=xPF3W_T5-MQ

Eric Jardine, “The Dark Web: Organized Cyber Crime & the Online Black Market,” The Conference Board of Canada, April 13, 2016, Recorded Webinar.
<http://www.conferenceboard.ca/e-Library/abstract.aspx?did=7763&AspxAutoDetectCookieSupport=1>

Eric Jardine, “Episode 5,” Cyentia Podcast, October 27, 2017. <http://cyentia.libsyn.com/episode-5-eric-jardine>

Relevant Past Professional Experience and Employment

Research Fellow, Centre for International Governance Innovation (CIGI), May 2014 – July 2016.

Teaching Assistant, Carleton University, assisted Professor Dane Rowlands, INAF 5205 - Economics of Conflict, January 2014 - May 2014

Sessional Instructor, Royal Military College of Canada, POE 116 - Introduction to International Relations, September 2013 - December 2013

Sessional Instructor, St. Paul University, ECS 3125 - The Peaceful Resolution to Violent Conflict, September 2013 - December 2013

Sessional Instructor, Carleton University, INAF 3000 - Policy in a Global Context, September 2013 - December 2013

Teaching Assistant, Carleton University, assisted Professor Dane Rowlands, INAF 5205 - Economics of Conflict, January 2013 - May 2013

Sessional Instructor, Carleton University INAF 4101 - Special Topics in International Affairs: Civil War, Insurgency, and Counterinsurgency in the Contemporary World, September 2012 - December 2012

Doctoral Research Fellow, Centre for Defence and Security Studies, Carleton University August 2010 – April 2012

Research Assistant, Carleton University, assisted Chancellor’s Professor Fen Hampson, September 2009 – May 2010

Assistant Editor and Marketing Coordinator, Ukraine Analyst, September 2009 – March 2010

Research Assistant, Professor Antonio Franceschet, University of Calgary, September 2006 – April 2007

Professional Development Courses

Certificate in Fundamentals of University Teaching, 6 July through 2 August, 2012.

Media Appearances

I have spoken to the media or published op-eds on timely issues in cybersecurity, privacy, Internet governance, and the Dark Web in the following outlets: Canadian Broadcast Corporation (CBC); Canadian Television (CTV); Business News Network; Cyberlaw and Business Report; Globe and Mail; National Post; Wired; Wired UK; FiveThirtyEight.

Service to the Discipline

Editorial Board member: *New Media & Society*

Journal peer reviewer: *Canadian Foreign Policy Journal; New Media & Society; Journal of Cyber Policy; First Monday; Politics and Governance.*

University press peer reviewer: MIT University Press.

Research Grants

Total Funds Offered: (\$26,970 USD & \$195,300 CAD)

Co-Investigator, *Measuring the Cybersecurity Performance of Canadian Internet Service Providers and Assessing Canada's Network-Level Operations Risk Profile: Lessons for Decision Makers and the General Public*, 2017-2019 [\$174,000 CAD]

Principal Investigator, *Scholar's Program, Institute for Society, Culture and the Environment*, Virginia Tech, 2016-2017. [\$22,970.00 USD]

Principal Investigator, *Niles Research Grant, College of Liberal Arts and Human Sciences*, Virginia Tech, 2016-2017. [\$4,000.00 USD]

Social Science and Humanities Research Council (SSHRC), "Canada and Asia: Building a New Policy Agenda," 20-21 February 2012, Investigator, with Simon Palamar and David Carment, Principle Investigator, Special Project Grant [\$12,500 CAD]

Security and Defence Forum Special Project Grant, "Canada and Asia: Building a New Policy Agenda," 20-21 February 2012, Investigator, with Simon Palamar and David Carment, Principle Investigator, Special Project Grant [\$8,800 CAD]

External Scholarships

Total Offered Funds: (\$110,000 CAD)

Ontario Graduate Scholarship, 2013-2014. [\$15,000 CAD]

Social Science and Humanities Research Council (SSHRC), *Doctoral Fellowship*, 2012-2013. [\$20,000 CAD]

Ontario Graduate Scholarship, 2012-2013. Declined. [\$15,000 CAD]

Department of National Defence – Security and Defence Forum (SDF) PhD Scholarship, 2011-2012. [\$20,000]

Ontario Graduate Scholarship, 2011-2012. Declined. [\$15,000 CAD]

Ontario Graduate Scholarship, 2010-2011. [\$15,000 CAD]

Department of National Defence – Security and Defence Forum (SDF) MA Scholarship, 2008-2009. [\$10,000 CAD]