Ido Sivan-Sevilla

College of Information Studies
University of Maryland
4130 Campus Drive (Hornbake Building)
College Park, MD USA 20740

sevilla@umd.edu
https://idonibrasco.github.io/

INTERESTS & HIGHLIGHTS:

I am an Assistant Professor at the College of Information Studies, University of Maryland. I apply institutional theory to understand the governance of Information and Communication Technologies (ICTs) across nations, sectors, and contexts. I study top-down and bottom-up governance structures and the way they interact to institutionalize data governance. I am interested in understanding how come we constantly fail at governing social harms associated with technology in the fields of security, privacy, surveillance, and accountability? I explain the puzzle of how sticky, resistant to change policy institutions come together and interact with the rapid institutionalization of data practices by private actors. I study structure, process, ideas, and discourse across these institutional environments, using theory-testing and case-centric process-tracing analysis, thematic analysis, fuzzy set qualitative comparative analysis (fsQCA), statistical models, and social network analysis (SNA) to reach my conclusions.

I hold a background in computer and social sciences, with eight years of experience in leading technical cybersecurity positions from the private sector, Israel's Prime Minister's Office, and the Israeli Air-Force [Captain]. I was previously a postdoctoral fellow at Cornell Tech's Digital Life Initiative (DLI), MA Fulbright Scholar at the University of Minnesota, and U.S. Congress Research Fellow in Washington DC. I had completed my BA with honors in Computer Science at the Technion – Israel's Institute of Technology.

I have published peer-reviewed journal articles on U.S. & EU policy processes and institutions that govern cybersecurity, privacy, and national security. I teach about theories of policy and governance, information risk management, the foundations of cybersecurity, ethics & privacy, and societal harms of new media.

EDUCATION

08/2014-08/2019	Ph.D. in Public Policy & Governance, Federmann School of Public Policy and Government, **The Hebrew University of Jerusalem**. Academic Supervisor: Prof. David Levi-Faur.
	Dissertation Title: *Explaining Policy Change in Governing Digital Technology Risks: Longitudinal Analysis of US and EU Cybersecurity and Privacy Policy Regimes*
08/2012-08/2014	M.A in Public Policy, Global Policy Concentration, The Humphrey School of Public Affairs, **University of Minnesota**. Academic Supervisor: Prof. Brian J. Atwood. (GPA: 3.95/4.00)
	Thesis: *Whistleblowing in the Digital Age – A Comparative Analysis of Whistleblowing Acts in U.S. and Israel.*
10/2002-12/2005	B.A in Computer Science, **Technion – Israel's Institute of Technology** (Dean's list of honors for Scholastic Achievements – top 10% of class).

PROFESSIONAL RESEARCH EXPERIENCE

01/2021-currnet	Assistant Professor, College of Information Studies, University of Maryland
08/2019-12/2020	Postdoctoral Fellow at the Digital Life Initiative (DLI) in Cornell-Tech, Cornell University, New York City, New York, U.S.
	Host: Prof. Helen Nissenbaum
	Research Project Title: *Accountable Information Use – Privacy and Fairness in Autonomous Decision-Making Systems.*
04/2016-04/2018	Neubauer Research Fellow at the Institute for National Security Studies (INSS), Tel Aviv University. Cybersecurity Research Program.
08/2014-08/2016	Researcher in a multi-disciplinary group, funded by Israel's Ministry of Science, to study the behavior of hackers. Designing and implementing honeypot technologies to capture hackers' behavior.
10/2013-08/2014	Research Assistant at the Humphrey School of Public Affairs, University of Minnesota. Working with Prof. Brian Atwood on U.S. institutions.

PUBLICATIONS

Peer-reviewed Scientific Journals

Sivan-Sevilla, I. (2021) "Europeanization on Demand: The EU Cybersecurity Certification Regime between Market Integration and Core State Powers [1997-2019]." *Journal of Public Policy*. DOI:10.1017/S0143814X20000173. Summary available here.

Sivan-Sevilla, I. (2021). "Framing and Governing Cyber Risks: Comparative Analysis of US Federal Policies [1996-2018]." *Journal of Risk Research* 24(6): 692-720 DOI:10.1080/13669877.2019.1673797

Sivan-Sevilla, I. (2019). "Complementaries and Contradictions: National Security and Privacy Risks in U.S. Federal Policy, 1968-2018." *Policy & Internet* 11(2): 172-214, DOI: 10.1002/poi3.189.

Siboni G. & *I. Sivan-Sevilla.* (2017). "Israeli Cyberspace Regulation: A Conceptual Framework, Inherent Challenges, and Normative Recommendations." *Cyber, Intelligence, and Security* 1(1):83-102. Available here.

Sivan-Sevilla, I. (2020). "Analytical Framework for Cyber Risk-Regulatory Models", *Haifa Law Review*. Paper was selected 5 out of 20 papers for a special issue on law & cyber policy. Available here (Hebrew).

<u>Under Review:</u>

Sivan-Sevilla, I. "Data Protection Gatekeepers post-GDPR: A fuzzy-set qualitative comparative analysis (fsQCA) across data protection authorities." DOI: 10.31235/osf.io/kjf8q

Mizrahi-Borohovitch I., Newman A., & *Sivan-Sevilla I.* "The civic transformation of data privacy implementation in Europe: Understanding differential enforcement by NGOs across member states." Draft available here.

Sivan-Sevilla, I. "Varieties of Supranational Security States: Longitudinal Comparative Analysis of EU Reforms Over Transboundary Security Issues."

Sivan-Sevilla, I. & Parham P. "Toward (Greater) Consumer Surveillance in a 'Cookie-less' World: A Comparative Analysis of Current and Future Web Tracking Mechanisms." DOI: 10.31235/osf.io/rauwj

Work-in-Progress:

Sivan-Sevilla, I. "Power with(out) responsibility? A comparative analysis of 'effective accountability' across public algorithmic governance." Research plan here.

Sivan-Sevilla, I. Parham, P. "Web Surveillance in Context: Persistent User Identification Patterns by Online Trackers."

Sivan-Sevilla, I. "The institutionalization of insurance in cybersecurity: comparative analysis of the security role of insurers across organizations." Essay available here.

Ahmed, S., Kit, W., & *Sivan-Sevilla, I.* "Contextual tracking paradigms: online tracking sources and granularity preferences across US and Singapore cultural settings."

Peer-reviewed Conference Proceedings

Sivan-Sevilla I., W. Chu, X. Liang, H. Nissenbaum. (2020). "Unaccounted Privacy Violation: A Comparative Analysis of Persistent Identification of Users Across Social Contexts." *FTC PrivacyCon 2020.* Research was highlighted by Cornell University here.

Sivan-Sevilla, I. (2017). "Trading Privacy for Security in Cyberspace: A study Across the Dynamics of U.S. Federal Laws and Regulations Between 1967 and 2016." *9th International Conference on Cyber Conflict (CyCon).* IEEE, pp. 1 -19. Available here.

Rechavi, A., T. Berenblum, D. Maimon, *I. Sivan-Sevilla.* (2015). "Hackers Typology Matter Geography: Mapping the Dynamics of Repeated System Trespassing Events Networks." *IEEE/ACM International Conference on Advances in Social Network Analysis and Mining.*

Book Chapters

Sivan-Sevilla I. & S. Sharvit. (2020) "When Cybersecurity Meets the Regulatory State: Case-Study Analysis of the Israeli Cybersecurity Regulatory Regime". In Galnor I., E. Tevet, and V. Shiffer (eds.). *Regulation in Israel: Values, Effectiveness, Methods.* Available here.

Sivan-Sevilla I. "Cybersecurity Policy Design: Policy Regime Change in Israel [1997-2018]." In Avigur A. and I. Berkovich (eds.) *Public Policy in the Information Age.* Open University of Israel. Magness Books. [Hebrew]. Available here.

Peer-Reviewed Research Book Projects for Policymakers

Siboni G. & *I. Sivan-Sevilla.* (2018). "Cybersecurity Regulations at the Private Sector: A Comparative Analysis of U.S., EU, UK, France, Germany, and Israel." *INSS: Tel-Aviv, Israel.* Available here.

Shwartz-Altshuler T., Aridor-Hershkovitz R., and *Sivan-Sevilla, I.* (2021). "What is Cyber Security? Cyberspace, Cyber Attacks, and Cyber Protection" *The Israel Democracy Institute,* Jerusalem (Hebrew). Available here.

Non-Refereed Articles and Essays

"Can We Diverge From the Path of Digital Surveillance?" *Smerconish for Independent Minds,* 12 Aug 2021.

"Private-Interest Cybersecurity Governance: The Case of Cyber Insurers," *Cornell Tech Blog,* 16 Dec 2020.

"The Role of the State in the Private Sector Cybersecurity Challenge" (co-author), *Georgetown Journal of International Affairs, 27* May, 2018.

"The Double Standard of the State in Cybersecurity" (Hebrew), *TheMarker,* 3 March, 2017.

"The FCC's Latest Privacy Regulations: A New Stance on Private Sector Protections?", *The Columbia Science and Technology Law Review,* 12 December, 2016.

"Apple vs. The FBI: The War on Privacy and Security" (Hebrew), *Calcalist,* 6 March, 2016.

"The EU-US Fight for Privacy" (Hebrew), *INSS Blog,* 9 February, 2016.

AWARDS, FELLOWSHIPS, GRANTS, AND HONORS

2023	Teaching & Learning Grant Award: "Experiential Learning Experiences for Real-World Information Risk Problems." (PI, $19,000)
2022-2024	Temasek Grant – Government of Singapore: "Examining and inoculating against the digital deception of deepfakes." Research Grant (Collaborator, €363,397)
2020-2023	Ministry of Education - Government of Singapore: "Public Opinion on Artificial Intelligence in a Post-Trust Era." Research Grant (Collaborator, €55,000)
2019-2021	ISEF Foundation Postdoctoral Fellow (€8,600 Annually).
2016-2019	Azrieli Foundation: Graduate Studies PhD Fellowship (€87,560 for three years). Each year 15 PhD students are selected from the entire country.
2016-2019	The Hoffman Leadership and Responsibility Program PhD Fellowship at the Hebrew University of Jerusalem (€43,000 for three years). Each year 12 doctoral students are selected from the entire university.
2016-2018	Institute of National Security Studies (INSS) Neubauer PhD Fellowship Program. (€28,700 for three years)
2017	Top Student Paper - Seventh Annual International Symposium, Center for Digital Ethics and Policy, Loyola University Chicago.
07/2017	Leonard Davis Institute Fellowship for Oxford Internet Institute Summer Doctoral Program. (€2,580)
2016	European Forum at the Hebrew University Fellowship. (€860)
06/2016	Ortwin Renn Prize for Applied Risk Research - European Society for Risk Analysis (SRA-E) (€473).
2015	The Federmann School of Public Policy and Government, PhD Fellowship for Excellence in Studies. (€14,370)
05-08/2013	Rosenthal Fellowship for Placement as a Legislative Assistant at the U.S. Congress. (€6,450)
2012-2014	U.S. Department of State, Fulbright Scholarship for MA at the Humphrey School of Public Affairs, University of Minnesota. (€130,000)
2004-2005	Technion – Israel's Institute of Technology. Dean's list of honors for Scholastic Achievements.
2002-2005	Israeli Defence Forces (IDF), 'Atidim' Scholarship for BA in Computer Science at the Technion – Israel's institute of Technology. (€26,000)

TEACHING EXPERIENCE

2021 – current	Lecturer, Graduate-level class: "Information Risk Management," syllabus available here. **UMD's iSchool**. Lecturer, Graduate-level class: "Foundations of Cybersecurity," syllabus available here. **UMD's iSchool**.

2015-2019	Teaching Assistant, "Conceptual and Theoretical Issues in Public Policy", Graduate level, Israel's Cadets Program (Future Policymakers), The Federmann School of Public Policy and Government, **The Hebrew University of Jerusalem**.
2015-2017	Teaching Assistant, "Theories of the Public Policy Process" Graduate level, M.A. Program, The Federmann School of Public Policy and Government, **The Hebrew University of Jerusalem**.

PHD MENTEES [COMMITTEE CHAIR]

2021 – current	Patrick T. Parham: "Identity construction of marginalized communities in times of crisis by digital service providers."

PHD COMMITTEE MEMBER

2021 – current	Shawn Janzen: "Selecting Cybersecurity Risk Identification and Assessment Approaches for Critical Infrastructures."

PROGRAM AND PLANNING COMMITTEES

2021 – current	Annual Symposium(s) on Applications of Contextual Integrity
2021 – current	DLI Associates Program
2022	SoDa Center Workshop: The Future of Measurement, Surveys and Social Data Science Research

PROFESSIONAL POSITIONS

05-08/2013	Legislative Assistant at **the U.S. House of Representatives**, Office of Congressman Ami Bera (CA-07), Letter from Congressman.
09/2011-08/2012	Cybersecurity Projects' Leader, The Prime Minster Office, **The Government of Israel**.
02/2011-09/2011	Product Manager, **The NextNine Corporation**, Industrial Cybersecurity.

MILITARY & LEADERSHIP EXPERIENCE

2009-2011	Cybersecurity Team Leader [Captain], **Israeli Air Force (IAF)**, 'Ofek' – IAF's Technological Unit. Responsible for securing IAF's communication infrastructures. Managing a team of 11 programmers and consultants with a budget of $7M. Team was chosen for excellence in 2010.
2007-2009	Cybersecurity Team Member [Lieutenant], **Israeli Air Force**, 'Ofek' – IAF's Technological Unit.
2005-2007	Information Technology Knowledge Manager, **Israeli Air Force** (IAF), Pilot's Training Academy.

PRESENTATIONS AT INTERNATIONAL CONFERENCES

(2022 – Upcoming) "Data Protection Gatekeepers post-GDPR: A fuzzy-set qualitative comparative analysis (fsQCA) across data protection authorities." The Research Conference on Communications, Information and Internet Policy (TPRC).

(2022 – Upcoming) "Data Protection Gatekeepers post-GDPR: A fuzzy-set qualitative comparative analysis (fsQCA) across data protection authorities." European Union Studies Association (EUSA) Annual Conference.

(2020) "Unaccounted Privacy Violation: A Comparative Analysis of Persistent Identification of Users Across Social Contexts." FTC Privacy Con 2020. Agenda is here. Video of Presentation [2:21:30].

(2018) "Regulating Emerging Technologies in the EU: Online Advertising as an Emerging AI Technology that Threatens Cybersecurity and Privacy", *AI Law & Policy,* The Center for Cyber Law & Policy, University of Haifa (*invited)*. Video of panel here.

(2018) "Reasserting Government in the Age of Governance: An Analysis of the U.S. Cyber Security Risk Regimes", *Society for Risk Analysis (SRA) 2018 Annual Meeting*, New Orleans, Louisiana, United States (*invited*).

(2018) "A Broken Distribution of Privacy: Evaluation of the Commodification of Personal Information Across Market Segments", *Amsterdam Privacy Conference,* The University of Amsterdam (*invited).*

(2018) "U.S. Cybersecurity Risk Regulation Strategies", *Digital State Capacities Workshop,* Hertie School of Governance, Berlin, Germany, 20 March.

(2017) "The Politics of U.S. Cybersecurity Risk Governance", *The 13th Annual Graduate Conference in Political Science, International Relations, and Public Policy,* The Hebrew University of Jerusalem, 13-14 December.

(2017) "Dynamic Policy Goals: Security and Privacy in U.S. Laws and Regulations", *Seventh Annual International Symposium on Digital Ethics,* Center for Digital Ethics and Policy, Loyola University Chicago, 13 October.

(2017) "Trading Privacy for Security? A Study Across the Dynamics of U.S. Federal Policy Regimes in Cyberspace", *3rd International Conference on Public Policy*, Lee Kuan Yew School of Public Policy (NUS), Singapore. 28-30 June

(2017) "Trading Privacy for Security in Cyberspace: A Study Across the Dynamics of U.S. Federal Laws and Regulations", *9th International Conference on Cyber Conflict (CyCon),* NATO Cooperative Cyber Defence Center of Excellence (CCDCOE), Tallin, Estonia. 30 May – 2 June. Video of presentation available here.

(2016) "The Rise of the U.S. Digital Surveillance State", *The 12th Annual Graduate Conference in Political Science, International Relations, and Public Policy,* The Hebrew University of Jerusalem, 13-16 December.

(2016) "U.S. Cybersecurity With/Out Privacy", *The 25th Meeting of The European Association for Risk Analysis,* University of Bath, UK, 19-22 June.

REFEREE FOR JOURNALS / BOOK SERIES

Regulation & Governance (Wiley)
Policy & Internet (Wiley)
Security Dialogue (SAGE)
Digital Policy, Regulation and Governance (Emerald Publishing*)*

Journal of the Association for Information Science and Technology
MIT Press: The Information Policy Series

ACADEMIC WORKSHOPS (Invited as Speaker & Reviewer)

06/2022	[upcoming] Privacy Law Scholars Conference (PLSC): "The civic transformation of privacy implementation: A comparative analysis of bottom-up data protection enforcement by NGOs across member states."
10/2021	Contextual Integrity Symposium – Project presented: "Cross-context identification by third parties in the web." [slides]
07/2021	Invited panelist – "Comparing Effects and Responses to GDPR and CCPA" – CLTC UC Berkley. [summary report]
06/2021	Panel Chair – "Public Policies for Digital Risks" – International Conference on Public Policy.
06/2021	Privacy Law Scholars Conference (PLSC): my paper on GDPR enforcement was workshopped.
05/2021	The 8th Privacy, Cyber & Technology Workshop, Tel Aviv University
01/2021	Institute for Information Law (IViR), University of Amsterdam: Governing European values inside data flow
12/2020	ECPR RegGov Early Career Network (ECN)
11/2020	Joel R. Reidenberg Northeast Privacy Scholars Workshop
12/2019	Interactions between Private and Public Authority in Global (Business) Governance: comparative and inter-disciplinary perspectives. University of Melbourne – hosted by Prof. Macdonald.
11/2019	Power Sharing or Power Shifts? Examining the role of public-private interactions in global governance. Technical University of Munich (TUM) School of Governance.
01/2019	Risk Regulation & Society, Lorentz Center, Institute of Public Administration, Leiden University, The Netherlands.
2017-2018	Privacy and the Capitalism of Information, Bi-monthly Workshops, Faculty of Law, Tel Aviv University.
01/2018	Private Authority and Public Policy in a Global Context. Yale University.

MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS

Israeli Public Diplomacy Forum (IPD) (two years)

International Public Policy Association (IPPA) (five years)

Society for Risk Analysis (SRA) (four years)

Israel Political Science Association (ISPA) (four years)

GUEST LECTURER

2020	Seminar Presentation at Cornell Tech: AdTech & Our Privacy – Dark Present, Brighter Future? Video of the talk is here.
2020	Research presentation at the University of Coventry (UK) in a module on 'Artificial Intelligence, Creativity, and Ethics' [Undergraduate]. Seminar

topic: "Privacy as Contextual Integrity: Highlighting Industry and Policy Failures Through the case of Digital Advertising."

2020	Seminar at ETH Zurich: Approaches to Authentication and Security
2017	Inter-American Development Bank & The Hebrew University of Jerusalem. Cybersecurity Executive Training with policymakers from Latin America.
2017	Israeli Public Diplomacy (IPD) Forum. Six invited lectures and TV Interviews on cybersecurity in U.S., Florida, with business and community leaders. Deception-based Security lecture available here. Evaluation letter here (Hebrew).
2017	Teldan's Information Systems Conference. Invited lecture on "the tension between security and privacy in cyberspace."
2016	Yigal Arnon (Law firm) Annual Meeting. Invited lecture on: "Implications of open-source principles on cybersecurity: Linux-based cases."

PROGRAMMING LANGUAGES

C++, Python, R, SQL, Stata, JavaScript, HTML

OUTREACH & COMMUNITY LEADERSHIP ACTIVITIES

2016 – current	Working with Israeli Policymakers from the National Cyber Directorate to form policy solutions for cybersecurity challenges
2014-2019	Community leadership at the Wizo Institute in Jerusalem – Leading a helpline for violent men to mitigate family violence.
2012	"Push" Program - Tutoring high school students from low socio-economic classes.
2011	"Tzeva - Youth Building A Future" - supporting students from struggling regions in Israel.
2011	Amit Program – Jewish Agency. "Hillel" training program for collaboration with Jewish students in the U.S.
2003-2005	Perach - Tutorial Project