

College of Information Studies  
University of Maryland  
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## **INTERESTS & HIGHLIGHTS:**

I am an Assistant Professor at the College of Information Studies, University of Maryland. I study the race between technology and policy by looking at how tech policy is designed and implemented by regulators and technology companies. I aim to understand how come we constantly at governing social harms associated with technology? I assess how stakeholders implement values such as security, privacy, identity, and accountability in technological systems. In my PhD, I applied institutional theory to understand the governance of ICTs across nations, sectors, and contexts. 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 analyses, thematic analysis, fuzzy set qualitative comparative analysis (fsQCA), regression analysis, 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 that govern cybersecurity, privacy, and national security. I teach about theories of the policy process, information risk management, the foundations of cybersecurity, ethics & privacy, and social 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-currenet [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: *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).

### Under Review:

- Sivan-Sevilla, I.** "Varieties of Enforcement Strategies post-GDPR: A fuzzy-set qualitative comparative analysis (fsQCA) across data protection authorities." DOI: [10.31235/osf.io/kjf8q](#)
- Sivan-Sevilla, I.** "Supranational Security States for National Security Problems: Longitudinal Comparative Analysis of European Security Spaces." DOI: [10.31235/osf.io/vn7ys](#)
- 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.**, Zalmanson L. "Information Systems in the Service of Adaptive Climate Regulatory Response." MISQ Commentary – available [here](#).
- 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](#).
- Kreuter, F., **Sivan-Sevilla I.**, Presser S., and Parham P. “The construction of information norms in social media: A user survey on the subjective perception of privacy norms online.”
- 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](#).” 9<sup>th</sup> *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](#). Hebrew version is [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.

## Featured Essays

[“Cookies might not be tracking you, but some of your favorite brands are.”](#) *NBCNews*. Sept. 28, 2022.

[“Uncovering the Complex Dynamics Shaping EU Cybersecurity Policy.”](#) *Aperio*. January 31, 2022.

[“Amazon Hit With €746M Privacy Fine from EU Regulators.”](#) *Law360*. July 30, 2021.

[“Private Israeli spyware used to hack cellphones of journalists, activists worldwide.”](#) *The Washington Post*. July 18, 2021.

## AWARDS, FELLOWSHIPS, GRANTS, AND HONORS

2023	<a href="#">Teaching &amp; Learning Grant Award: “Experiential Learning Experiences for Real-World Information Risk Problems.”</a> (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	<a href="#">ISEF Foundation</a> Postdoctoral Fellow (€8,600 Annually).
2016-2019	<a href="#">Azrieli</a> Foundation: Graduate Studies PhD Fellowship (€87,560 for three years). Each year 15 PhD students are selected from the entire country.
2016-2019	The <a href="#">Hoffman</a> 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) <a href="#">Neubauer PhD Fellowship Program</a> . (€28,700 for three years)
2017	<a href="#">Top Student Paper</a> - Seventh Annual International Symposium, Center for Digital Ethics and Policy, Loyola University Chicago.
07/2017	Leonard Davis Institute Fellowship for <a href="#">Oxford Internet Institute Summer Doctoral Program</a> . (€2,580)
2016	European Forum at the Hebrew University Fellowship. (€860)
06/2016	<a href="#">Ortwin Renn Prize for Applied Risk Research</a> - 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	<a href="#">Rosenthal Fellowship</a> for Placement as a Legislative Assistant at the U.S. Congress. (€6,450)
2012-2014	U.S. Department of State, <a href="#">Fulbright</a> 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), ‘ <a href="#">Atidim</a> ’ 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 <a href="#">here</a> . <b>UMD’s iSchool</b> .  Lecturer, Graduate-level class: “Foundations of Cybersecurity,” syllabus available <a href="#">here</a> . <b>UMD’s iSchool</b> .
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, <b>The Hebrew University of Jerusalem</b> .
2015-2017	Teaching Assistant, “Theories of the Public Policy Process” Graduate level, M.A. Program, The Federmann School of Public Policy and Government, <b>The Hebrew University of Jerusalem</b> .

## PHD MENTEES [COMMITTEE CHAIR]

2021 – current	<a href="#">Patrick T. Parham</a> : “Identity construction of marginalized communities in times of crisis by digital service providers.”
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## COMMITTEE MEMBER

2021 – current	PhD Committee - <a href="#">Shawn Janzen</a> : “Selecting Cybersecurity Risk Identification and Assessment Approaches for Critical Infrastructures.”
2022	Faculty Search Committee – <a href="#">Joint Hire</a> – Department of Government & Politics (GVPT) and the College of Information Studies (iSchool)

## PROGRAM AND PLANNING COMMITTEES

2021 – current	<a href="#">Annual Symposium(s) on Applications of Contextual Integrity</a>
2021 – current	<a href="#">DLI Associates Program</a>
2022	SoDa Center Workshop: <a href="#">The Future of Measurement, Surveys and Social Data Science Research</a>

## PROFESSIONAL POSITIONS

05-08/2013	Legislative Assistant at <b>the U.S. House of Representatives</b> , Office of Congressman Ami Bera (CA-07), <a href="#">Letter</a> from Congressman.
09/2011-08/2012	Cybersecurity Projects’ Leader, The Prime Minister Office, <b>The Government of Israel</b> .
02/2011-09/2011	Product Manager, <b>The NextNine Corporation</b> , 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

- (2023 – upcoming) [“Can policy catch technology? Policy implementation & the case for civic tech”](#) 2023 Annual Conference of the [American Association for the Advancement of Science \[AAAS\]](#).
- (2022) [“Power with\(out\) responsibility? A comparative analysis of ‘effective accountability’ across public algorithmic governance.” @Unfairness of Artificial Intelligence, University of Amsterdam.](#)
- (2022) “Toward (Greater) Consumer Surveillance in a ‘Cookie-less’ World: A Comparative Analysis of Current and Future Web Tracking Mechanisms.” [The 2022 FTC PrivacyCon](#).
- (2022 – invited) “Toward (Greater) Consumer Surveillance in a ‘Cookie-less’ World: A Comparative Analysis of Current and Future Web Tracking Mechanisms.” [Annual Conference of the Internet Governance Project: From Internet Governance to Political Economy](#).
- (2022) “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) “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 13<sup>th</sup> 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”, *3<sup>rd</sup> 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”, *9<sup>th</sup> 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 12<sup>th</sup> 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 25<sup>th</sup> 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 \[JASIST\]](#)

[MIT Press: The Information Policy Series](#)

## ACADEMIC WORKSHOPS (Invited as Speaker & Reviewer)

09/2022 [Contextual Integrity Annual Symposium](#) – Projects presented: (1) Adtech’s State-of-Play on “Privacy”: A Case Study of Companies’ Attribution Proposals; (2) Goggles Into the Soul: Norms of Identity Construction & User Profiling at the Metaverse.

06/2022 [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	<a href="#">Privacy Law Scholars Conference (PLSC)</a> : my paper on GDPR enforcement was workshopped.
05/2021	<a href="#">The 8<sup>th</sup> Privacy, Cyber &amp; Technology Workshop</a> , Tel Aviv University
01/2021	Institute for Information Law (IViR), University of Amsterdam: <a href="#">Governing European values inside data flow</a>
12/2020	<a href="#">ECPR RegGov Early Career Network (ECN)</a>
11/2020	<a href="#">Joel R. Reidenberg Northeast Privacy Scholars Workshop</a>
12/2019	Interactions between Private and Public Authority in Global (Business) Governance: comparative and inter-disciplinary perspectives. University of Melbourne – hosted by <a href="#">Prof. Macdonald</a> .
11/2019	<a href="#">Power Sharing or Power Shifts? Examining the role of public-private interactions in global governance</a> . Technical University of Munich (TUM) School of Governance.
01/2019	<a href="#">Risk Regulation &amp; Society</a> , 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	<a href="#">Private Authority and Public Policy in a Global Context</a> . 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: <a href="#">AdTech &amp; Our Privacy – Dark Present, Brighter Future?</a> Video of the talk is <a href="#">here</a> .
2020	Research presentation at the <a href="#">University of Coventry (UK)</a> 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: <a href="#">Approaches to Authentication and Security</a>
2017	Inter-American Development Bank & The Hebrew University of Jerusalem. <a href="#">Cybersecurity Executive Training with policymakers from Latin America</a> .
2017	Israeli Public Diplomacy (IPD) Forum. <a href="#">Six invited lectures</a> and <a href="#">TV Interviews</a> on cybersecurity in U.S., Florida, <a href="#">with business and community leaders</a> . Deception-based Security lecture available <a href="#">here</a> . Evaluation letter <a href="#">here</a> (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 <a href="#">helpline for violent men</a> to mitigate family violence.
2012	<a href="#">"Push" Program</a> - Tutoring high school students from low socio-economic classes.
2011	<a href="#">“Tzeva - Youth Building A Future”</a> - 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	<a href="#">Perach</a> - Tutorial Project