Ido Sivan-Sevilla Dec 17th, 2022

College of Information Studies University of Maryland 4130 Campus Drive (Hornbake Building) College Park, MD USA 20740 <u>sevilla@umd.edu</u> https://idonibrasco.github.io/

## **INTERESTS & HIGHLIGHTS:**

I am an Assistant Professor at the College of Information Studies, University of Maryland, and Associate at Cornell Tech's Digital Life Initiative (DLI). I study the race between technology and policy, focusing on the politics of tech policy design and the effectiveness and discretion applied when public and private actors implement policies to control unintended social consequences from technology over values such as security, privacy, identity, and accountability. In my PhD, I applied institutional theory to understand cybersecurity and privacy policies 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 technology in society. I study structure, process, ideas, and compliance practices across these institutional environments, using technological tools to understand tech policy compliance, theory-testing and case-centric process-tracing analyses, text 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 teach about theories at the intersection of governance, data, privacy, and cybersecurity. I created an experiential learning class on information risk management, teach on the foundations of cybersecurity, ethics & privacy, and policy design & compliance with social harms from technology.

### **EDUCATION**

08/2014-08/2019 Ph.I

Ph.D. in Public Policy & Governance, Federmann School of Public Policy and Government, **The Hebrew University of Jerusalem**. Academic Supervisor: Prof. David Levi-Faur.

<u>Dissertation Title:</u> 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)

<u>Thesis:</u> 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).

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### **Academic Appointments & Affiliations**

01/2021-currnet <u>Assistant Professor</u>, College of Information Studies, University of

Maryland

01/2021-current Associate, Digital Life Initiative (DLI), Cornell Tech

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.

### **PUBLICATIONS**

### **Peer-reviewed Scientific Journals**

- Sivan-Sevilla, I. (Forthcoming) "Supranational Security States for National Security Problems:

  Governing by Rules and Capacities in Technology-Driven European Security Spaces."

  Journal of European Public Policy. DOI: 10.31235/osf.io/vn7ys
- Sivan-Sevilla, I. (2022). "Varieties of Enforcement Strategies post-GDPR: A fuzzy-set qualitative comparative analysis (fsQCA) across data protection authorities." *Journal of European Public Policy*. DOI: 10.1080/13501763.2022.2147578
- *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 <a href="here">here</a>.
- *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 <a href="here">here</a> (Hebrew).

### **Under Review:**

- 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." Second round of review at *West European Politics* (minor revision). DOI: 10.31219/osf.io/vrw5y
- *Sivan-Sevilla, I.*, Zalmanson L. "Information Systems in the Service of Adaptive Climate Regulatory Response." Under review for *MISQ* Commentary available <a href="here">here</a>.

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

### Selected Work-in-Progress:

- *Sivan-Sevilla, I.* Parham, P. "Web Surveillance in Context: Persistent User Identification Patterns by Online Trackers."
- McGuigan, L., *Sivan-Sevilla, I.*, Shvartzshnaider, Y., Parham, P., "Adtech's State-of-Play on "Privacy": A Case Study of Companies' Attribution Proposals."
- *Sivan-Sevilla, I.* "Power with(out) responsibility? A comparative analysis of 'effective accountability' across public algorithmic governance." Research plan <a href="here">here</a>.
- Harry, Charles & *Sivan-Sevilla*, *I.* "Assessing Strategic Vulnerabilities to Cyber-Attacks of State- and County-level Government." Pending grant proposal available <a href="here">here</a>.
- *Sivan-Sevilla, I.* "The institutionalization of insurance in cybersecurity: comparative analysis of the security role of insurers across organizations." Essay available <a href="here.">here.</a>
- McGuigan, L., Myers West S., *Sivan-Sevilla I.*, Parham P., "The After Party: AdTech's Privacy Problems as Resignation in Reverse." <u>Candidate</u> for a special issue in Big Data & Society.
- 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."

### **Peer-reviewed Conference Proceedings**

- Sivan-Sevilla I., W. Chu, X. Liang, H. Nissenbaum. (2020). "<u>Unaccounted Privacy Violation: A Comparative Analysis of Persistent Identification of Users Across Social Contexts.</u>" *FTC PrivacyCon 2020*. Research was highlighted by Cornell University <a href="https://example.com/here/bers/here/ber
- 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 <a href="here">here</a>.
- 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 <a href="here">here</a>.

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### **Non-Refereed Articles and Essays**

- "On Comments Submitted to the FTC ANPR on Commercial Surveillance and Lax Data Security Practices" *DLI Cornell Tech*. Dec 9 2022.
- "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), The Marker, 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      | <u>Teaching &amp; Learning Grant Award</u> : " <u>Experiential Learning Experiences</u> 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 | <u>Azrieli</u> Foundation: Graduate Studies PhD Fellowship (€87,560 for three years). Each year 15 PhD students are selected from the entire country.  |
| 2016-2019 | The <u>Hoffman</u> 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) <u>Neubauer PhD Fellowship</u> <u>Program</u> . (€28,700 for three years)  |
| 2017      | Top Student Paper - Seventh Annual International Symposium, Center for Digital Ethics and Policy, Loyola University Chicago.   |

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| 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. $( \in 6,450)$  |
| 2012-2014  | U.S. Department of State, <u>Fulbright</u> 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 | Assistant Professor, Graduate-level class: "Information Risk Management," syllabus available <a href="here">here</a> . UMD's iSchool.  |
|----------------|--|
|                | Assistant Professor, Graduate-level class: "Foundations of Cybersecurity," syllabus available <a href="here">here</a> . 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, <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 | Patrick T. Parham: "Identity construction of marginalized communities in |
|----------------|--|
|                | times of crisis by digital service providers."                           |

# **COMMITTEE MEMBER**

| 2021 – current | PhD Committee - Shawn Janzen: "Selecting Cybersecurity Risk               |
|----------------|---|
|                | Identification and Assessment Approaches for Critical Infrastructures."   |
| 2022 – current | PhD Committee – Rachel A. Yang – "Cybersecurity Mental Models of          |
|                | Very Small Business Owners."  |
| 2022           | Faculty Search Committee – <u>Joint Hire</u> – Department of Government & |
|                | Politics (GVPT) and the College of Information Studies (iSchool)          |

# PROGRAM AND PLANNING COMMITTEES

| 2021 – current | Annual Symposium(s) on Applications of Contextual Integrity |
|----------------|---|
| 2021 – current | DLI Associates Program                                      |

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SoDa Center Workshop: The Future of Measurement, Surveys and Social

Data Science Research

## **PROFESSIONAL POSITIONS**

2022

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], <b>Israeli Air Force</b> ( <b>IAF</b> ), <u>'Ofek' – IAF's Technological Unit</u> . 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], <b>Israeli Air Force</b> , '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." <u>The 2022 FTC PrivacyCon</u>.

(2022 – invited) "Toward (Greater) Consumer Surveillance in a 'Cookie-less' World: A Comparative Analysis of Current and Future Web Tracking Mechanisms." <u>Annual Conference of the Internet Governance Project: From Internet Governance to Political Economy</u>.

(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." <u>European Union Studies</u> 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 <a href="here">here</a>. Video of <a href="Presentation">Presentation</a> [2:21:30].

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- (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 <u>here</u>.
- (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)**

| 02/2023   | <u>USCD - Cyber Escalation in Conflict Bridging Policy, Data, and Theory.</u> "Assessing State and County Level Strategic Vulnerability to Cyber Attacks."  |
|-----------|---|
| 10/2022   | ASIS&T 2022 Annual Meeting, panel on "leveraging sociotechnical systems to empower the communities we serve." Presented my research agenda on 'Toward pro-privacy Ad Solutions.'  |
| 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   | <u>Privacy Law Scholars Conference (PLSC):</u> "The civic transformation of privacy implementation: A comparative analysis of bottom-up data protection enforcement by NGOs across member states."  |
| 10/2021   | <u>Contextual Integrity Symposium</u> – Project presented: "Cross-context identification by third parties in the web." [ <u>slides</u> ]  |
| 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" – <u>International</u> <u>Conference on Public Policy.</u>  |
| 06/2021   | <u>Privacy Law Scholars Conference (PLSC):</u> 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: <u>Governing European values inside data flow</u>  |
| 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 <a href="Prof. Macdonald">Prof. Macdonald</a> .                             |
| 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

<u>Israeli Public Diplomacy Forum</u> (IPD) (two years)

International Public Policy Association (IPPA) (five years)

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Society for Risk Analysis (SRA) (four years)
Israel Political Science Association (ISPA) (four years)

## **GUEST LECTURER**

| 2020 | Seminar Presentation at Cornell Tech: <u>AdTech &amp; Our Privacy – Dark</u> <u>Present, Brighter Future?</u> Video of the talk is <u>here</u> .   |
|------|--|
| 2020 | Research presentation at the <u>University of Coventry (UK)</u> 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. <u>Six invited lectures</u> and <u>TV</u> <u>Interviews</u> on cybersecurity in U.S., Florida, <u>with business and community leaders</u> . Deception-based Security lecture available <u>here</u> . Evaluation letter <u>here</u> (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 & TOOLS

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

## **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 <u>helpline for violent men</u> to mitigate family violence. |
| 2012           | "Push" Program - Tutoring high school students from low socio-economic classes.  |
| 2011           | <u>"Tzeva - Youth Building A Future"</u> - 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  |