

## RESEARCHER PROFILE

Prof. Oren Perez, Dr., Ittai Bar-Siman-Tov, Dr. Ayelet Sela  
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### HORIZON EUROPE TOPIC(S) OF INTEREST:

**HORIZON-CL2-2022-DEMOCRACY-01-01: Artificial intelligence, big data and democracy**

**HORIZON-CL2-2022-DEMOCRACY-01-02: The future of democracy and civic participation**

### CONTRIBUTIONS TOWARD CALL TOPIC

[Bar-Ilan Innovation Lab for Law, Data-Science and Digital Ethics](#) brings together expertise in interdisciplinary analysis of big data, networks, constitutional law, regulation and governance, and online dispute settlement. Its members, Prof. Oren Perez, Dr., Ittai Bar-Siman-Tov, Dr. Ayelet Sela, have vast experience in various research projects that are related to the call. Prof Perez has led various projects related to digital democracy, global governance, algorithmic regulation, and social network analysis. In his most recent research, he studied the potential risks and benefits of using AI to augment the democratic capacities of citizens. Dr. Bar-Siman-Tov provides proven expertise in the domains of constitutional theory and democratic institutions and in their integration with data science. He currently leads several research projects on the effects of Covid-19 on democracy and democratic institutions, including through data-science and text-as-data approaches. Dr. Sela conducts research at the intersection of dispute system design and legal technologies with a focus on their impact on access justice and procedural justice. She currently works on a project developing design principles for AI-based dispute resolution systems. In addition, Dr. Sela and Dr. Bar-Siman-Tov currently cooperate with a data scientist on a research project applying data-science tools to the study of ethical risks in terms of service and privacy policies of digital devices.

## BRIEF PROFILE

### **Prof. Oren Perez**

Prof. Perez has broad experience in leading interdisciplinary projects involving big data and law. He holds an LLB (Magna Cum Laude) from Tel Aviv University and LL.M. (1997), Ph.D. (2001) from London School of Economics and Political Science. He also has a BA in Philosophy, University of London, 2015. He is currently (from October 1st 2017) Dean of Bar-Ilan University, Faculty of Law. He primarily works in the fields of environmental regulation, global governance, networks and e-democracy. He has won several prestigious grants including a Marie Curie Fellowship, grants from the Israeli Ministry of Environment, the Ministry of Science and the Israel Science Foundation.

Among his most recent publications are: 'The Hybrid Legal-Scientific Dynamic of Transnational Scientific Institution's 26(2) *European Journal of International Law*, 2015 391-416; "The network of law reviews: citation cartels, scientific communities, and journal rankings." *The Modern Law Review* 82.2 (2019): 240-268 "Governance through global networks and corporate signaling." 13.4 (2019): 447-469; and Collaborative e-Rulemaking, Democratic Bots, and the Future of Digital Democracy. [Digital Government: Research and Practice](#), February 2020, Article No: 8.

### **Dr. Ittai Bar-Siman-Tov**

Dr. Bar-Siman-Tov has broad experience in leading interdisciplinary projects at the interactions between data science, constitutional law, and legislation. He is the Head of the BIU LawData Lab; member of the Executive Board of the Bar-Ilan University Data Science Institute; and senior fellow at the Jean Monnet Centre of Excellence on Digital Governance. He is also Co-Director of the Bar-Ilan University Dual Degree Program in Law and Political Science, Co-Chair of The Israeli Association of Legislation, and General Editor of *The Theory and Practice of Legislation*. He was awarded multiple research grants (including, inter alia, from the German-Israeli Foundation for Scientific Research and Development; the Israel Science Foundation; the Ministry of Science and Technology; the Volkswagen Foundation; and the Israel National Institute for Health Policy Research). His research has been published inter alia in *Georgetown Law Journal*, *Boston University Law Review*, *William and Mary Law Review*, *Legisprudence*, *Regulation and Governance*, *American Journal of Comparative Law*, and *Companion Proceedings of the 2019 World Wide Web Conference*.

## BRIEF PROFILE

### **Dr. Ayelet Sela**

Dr. Ayelet Sela's scholarship and teaching revolve around law and technology, dispute system design, courts, and empirical legal studies. Her recent work focuses on choice architecture, procedural design and access to justice in courts, online courts and online legal services. She also works on the application of machine learning methods to legal data for analytical purposes and in order to develop decision-support tools and governance mechanisms. Dr. Sela holds a JSD and a JSM from Stanford Law School, where she was also a fellow in the Gould Negotiation and Dispute Resolution Center and the Codex Center for Legal Informatics. Currently, she is a lecturer (assistant professor) at the Bar Ilan University faculty of law, and a member of the BIU LawData Lab and the BIU Data-Science Institute. She also serves as a senior fellow at the Jean Monnet Centre of Excellence on Digital Governance and as an affiliate researcher in the Autonomy through Cyberjustice Technologies research project. Dr. Sela's work has been published in leading journals, she is the recipient of multiple academic awards and research grants, including an ongoing grant from the Israeli Ministry of Science and Technology (2019-2021, co-PI) for a project aimed at identifying ethical risks in terms of service agreements and privacy policies of mobile apps using experiments and machine learning methods; and funding from the Israeli Ministry of Justice to study procedural justice and performance metrics in its first online-only tribunal.

## RELEVANT PUBLICATIONS

### Prof. Perez selected publications

1. Oren Perez, 'Electronic Democracy as a Multi-dimensional Praxis', *North Carolina Journal of Law & Technology*, Vol. 4, No. 2, pp. 275-306, 2003.
2. Oren Perez, 'Complexity, Information Overload and Online Deliberation', *5 I/S: A Journal of Law and Policy for the Information Society* (2008/9) 43-85.
3. Oren Perez, 2013. 'Open Government, Technological Innovation and the Politics of Democratic Disillusionment: (E-)Democracy from Socrates to Obama'.9 *I/S: A Journal of Law and Policy for the Information Society* 61 (2013) <https://moritzlaw.osu.edu/ostlj/>
4. Perez, Oren and Bar-Ilan, Judit and Tali Gazit and Aharony, Noa and Amichai-Hamburger, Yair and Jenny Bronstein, The Prospects of E-Democracy: An Experimental Study of Collaborative E-Rulemaking (April 14, 2018). 15 *Journal of Information Technology & Politics* (2018) 278-299.
5. Oren Perez 2020. Collaborative e-Rulemaking, Democratic Bots, and the Future of Digital Democracy. *Digital Government: Research and Practice*, February 2020, Article No: 8.

### Dr. Sela selected publications

1. Ayelet Sela, "Diversity by Design: Improving Access to Justice in Online Courts with Adaptive Court Interfaces" 21(4) *Journal of Law & Ethics of Human Rights* (2021)
2. Ayelet Sela & Sigal Ressler-Zakai, "Court 2.0: Institutionalizing Online Court Proceedings in Israel" 33(2) *Bar Ilan Legal Studies* (2020) [Hebrew]
3. Ayelet Sela & Limor Gabay-Egozi, "Judicial Procedural Involvement (JPI): A Metric for Judges' Role in Litigation, Settlement and Access to Justice" 47(3) *Journal of Law and Society* 468 (2020)
4. Ayelet Sela, "e-Nudging Justice: The Role of Digital Choice Architecture in Online Courts" 2019 *Journal of Dispute Resolution* 127
5. David Sarne, Jonathan Schler, Alon Singer, Ayelet Sela & Ittai Bar-Siman-Tov, "Unsupervised Topic Extraction from Privacy Policies" 563 *Companion Proceedings of the 2019 World Wide Web Conference (WWW'19 Companion)* (2019)
6. Ayelet Sela, "Can Computers Be Fair? How Automated and Human-Powered Online Dispute Resolution Affect Procedural Justice in Mediation and Arbitration" 33 *Ohio state journal on Dispute Resolution* 91 (2018) [Winner of the 2018 Outstanding Professional Article Award by The International Institute for Conflict Prevention and Resolution (CPR)]
7. Ayelet Sela, "The Effect of Online Technologies on Dispute Resolution System Design: Antecedents, Current Trends and Future Directions" 21 *Lewis & Clark Law Review* 633 (2017)
8. Ayelet Sela, "Streamlining Justice: How Online Courts Can Resolve the Challenges of Pro Se Litigation" 26 *Cornell Journal of Law and Public Policy* 331 (2016)

#### Dr. Bar-Siman-Tov selected publications

1. *Comparative Multidisciplinary Perspectives on Omnibus Legislation* (Springer Nature's Legisprudence Library, 2021)
2. *Legislative Supremacy in the United States?: Rethinking the Enrolled Bill Doctrine*, 97 GEORGETOWN LAW JOURNAL 323 (2009)
3. *The Puzzling Resistance to Judicial Review of the Legislative Process*, 91 BOSTON UNIVERSITY LAW REVIEW 1915 (2011)
4. *Mending the Legislative Process – The Preliminaries*, 3 THE THEORY AND PRACTICE OF LEGISLATION 245 (2015)
5. *Legislation, Better Regulation and Experimental Governance: An Empirical Study*, 12 REGULATION AND GOVERNANCE 192-219 (2018)
6. *Unsupervised Topic Extraction from Privacy Policies*. In Companion Proceedings of the 2019 World Wide Web Conference (WWW'19 Companion), (with David Sarne, Jonathan Schler, Alon Singer, Ayelet Sela)
7. *Legislatures and Rights*, 21 JERUSALEM REVIEW OF LEGAL STUDIES 112 (2020)
8. *Beyond Neglect and Disrespect: Legislatures in Legal Scholarship*, in HANDBOOK OF PARLIAMENTARY STUDIES: INTERDISCIPLINARY APPROACHES TO LEGISLATURES 141 (Cyril Benoît & Olivier Rozenberg eds., 2020)
9. *Legislatures in the Time of Covid-19*, 8(1) THEORY AND PRACTICE OF LEGISLATION 3 (2020) (with Ronan Cormacain)
10. *Covid-19 Meets Politics: The Novel Coronavirus as a Novel Challenge for Legislatures*, 8(1) THEORY AND PRACTICE OF LEGISLATION 11 (2020)
11. *Israel: Legal Response to Covid-19*, in J. KING & O. FERRAZ (eds), THE OXFORD COMPENDIUM OF NATIONAL LEGAL RESPONSES TO COVID-19 (Oxford University Press, 2021) (with Einat Albin, Aeyal Gross & Tamar Hostovsky-Brandes)
12. *Measuring Legislative Activity during the Covid-19 Pandemic: Introducing the ParlAct and ParlTech Indexes*, 1 International Journal of Parliamentary Studies 109 (2021) (with Olivier Rozenberg, Cyril Benoît, Israel Waismel-Manor & Asaf Levanon)

## BAR ILAN UNIVERSITY PROFILE

Established in 1955, Bar Ilan University (BIU) is currently one of Israel's largest universities with a total undergraduate and graduate student enrollment of 19,000. With more than 1,600 senior and junior faculty members, BIU has achieved an international reputation for academic and research excellence, especially, but not limited to the fields artificial intelligence, renewable energy, bio-medicine, brain sciences, cancer, cyber security, cognitive sciences, environment, quantum technologies, medicine, archaeology, nanotechnology and advanced materials.

Building on our past and current successes in FP6, FP7, H2020 and ERC projects, BIU is committed to strengthening its research and innovation infrastructure and supporting multidisciplinary innovative research initiatives with its 55 research centers and 60 endowed chairs. In addition, the Bar Ilan Center for Smart Cities is recognized by the EU SMART SPECIALISATION PLATFORM as a Digital Innovation Hub.

[The BIU Innovation Lab for Law, Data-Science and Digital Ethics](#) at Bar Ilan-University Faculty of Law is based on an interdisciplinary collaboration between legal researchers from the BIU Faculty of Law and data scientists from the BIU Data Science Institute and other affiliated BIU departments. It is also based on an international collaboration as part of the Jean Monnet Centre of Excellence on Digital Governance (DIGOV). It additionally works with partners from technology companies and other industry and government actors.