

RESUME

Full name: Rann Smorodinsky

Identity No. 022094387

Date and place of birth: Oct. 12, 1965

Marital status: Married + 3.

Web site: <http://ie.technion.ac.il/Home/Users/rann0.html>

ACADEMIC DEGREES

1983–1986: B.Sc. in Mathematics and Operations Research, Tel Aviv University
(Summa cum laude)

1987–1991: M.Sc. in Mathematics and Game Theory, Tel Aviv University (cum laude)

1993–1995: MBA, Business School, Tel- Aviv University

1992–1995: Ph.D. in Mathematics and Game Theory, Tel Aviv University

ACADEMIC APPOINTMENTS

1997–Present : Faculty of Industrial Engineering and Management,
Technion - Israel Institute of Technology

2005–Present: Associate Professor

1999–2005: Senior Lecturer

1997–1999: Lecturer

2006: Visiting scholar at Universitat Pompeu Fabra

2001–2002: One year leave-of-absence to work in the private sector.

1995–1997: Department of Managerial Economics and Decision Sciences (MEDS),
J.L. Kellogg Graduate School of Management, Northwestern University.
Assistant Professor

1992–1995: School of Mathematical Sciences, Tel-Aviv University.
Reader (Assistant)

PROFESSIONAL EXPERIENCE

2009–2010: Principal Applied Researcher, Microsoft.

2005–2009: Co-Founder and Vice President of YaData (www.yadata.com), acquired by Microsoft in 2008.

2000–2002: Co-Founder and Vice President of Unipier Ltd. (www.unipier.com), acquired by Flash Networks in 2006 (one year leave-of-absence in 2001–2).

1992–1994: Senior consultant for system analysis and operations research in Hoshen/Eliav Consultants Firm, Inc., Tel-Aviv.

RESEARCH INTERESTS

Game theory, Economic theory

TEACHING EXPERIENCE

Undergraduate courses in Introductory Micro and Macro Economics, Game Theory, Operations Research, Probability, and Statistics.

Graduate level courses: basic course in Game Theory, Advanced Topics in Game Theory, Mechanism Design and Auction Theory.

TECHNION ACTIVITIES

2003–Present: Head of Economics area

1997–2007: Organizer of the Technion Game Theory seminar

PROFESSIONAL ACTIVITIES

Program Committee member for the Erice Game Theory workshop (May 2017)

Program Committee member of the *ACM Conference on Economics and Computation EC17* (2017)

Program Committee member of the *ACM Conference on Economics and Computation EC15* (2015)

SAGT (Symposium on Algorithmic Game Theory) 2014 senior program committee

Associate Editor, *Mathematical Social Sciences* (2005–present)

Associate Editor, *Journal of Dynamic Games and Applications* (2010–present)

Editorial Board, *ISRN Economics* (2012–2014)

ISF committee member (economics) and ISF committee chairperson (management)

Maschler award committee (prize awarded by the Game Theory Society – Israeli chapter).

Section organizer, Israel Mathematical Union annual meetings, 2006.

Program Committee member of the “Second Workshop on Economics of Peer-to-Peer Systems,” Harvard, June 2004.

Served as referee for the *Israeli Science Foundation (ISF)*, *American Economic Review (AER)*, *Econometrica*, *Games and Economic Behavior (GEB)*, *Journal of Economic Theory (JET)*, *International Journal of Game Theory (IJGT)*, *The B.E. Journals in Theoretical Economics*, *Symposium on Theoretical of Computing (STOC)*, *Foundations of Computer Science (FOCS)*, *Innovations in Theoretical Computer Science (ITCS)*, *Journal of Artificial Intelligence Research (JAIR)*, *American Economic Journal: Microeconomics*, *Transactions of Economics and Computation (TEAC)*, *SIAM Journal of Control and Optimization (SICON)*, *Linear Algebra and Applications*, *Mathematical Programming – Series B*.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

None

FELLOWSHIPS, AWARDS AND HONORS

BSF Bergmann Memorial Research Award, awarded by the BSF to young scientists for “research projects of high scientific quality”. The grant carries a stipend of \$10,000 (1997).

Award for distinguished research student in Statistics and Operations Research Tel Aviv University (1993).

Scholarship for distinguished students of Lithuanian, Latvian, and Estonian Origin, Tel-Aviv University (1986).

Dean's Award for distinguished students, Tel Aviv University (1984, 1985, 1986).

STUDENTS

Completed Theses

Itai Zak, MSc. (2002). Thesis topic: "Uncertainty and Myopic Loss Aversion".

Orit Perry, MSc. (2002). Thesis topic: "Frequent Probabilistic Punishment in Law Enforcement" (jointly with Anat Rafaeli).

Orna Agmon, MSc. (2002), cum laude. Thesis topic: "Mechanism Design for Computation Resource Allocation Aiming at a Maximal Utility for the Organization".

Dmitry Zel, MSc. (2002). Thesis topic: "Repeated Decision Making and the House Money Effect".

Hadas Yaffe, MSc. (2003). Thesis topic: "The Restaurant Problem – Exploring the Consumption Pattern under 3 Different Marginal Costs" (main supervisor: Anat Rafaeli of IE).

Aviv Simionovici, MSc. (2003). Thesis topic: "A Negotiation Based Approach to Scalable Load Balancing in Distributed Systems" (associate supervisor: Roy Friedman of CS).

Inbar Aricha, MSc. (2005). Thesis Topic: “Overcoming Free Riding in Multi-Party Computations—The Non-anonymous Case”.

Sergey Kuniawsky. MSc. (2006). Thesis Topic: “Coalitional Congestion Games”.

Ernan Galed, MSc. (2010). Thesis Topic: “Sequential Mechanisms for the Supply of Public Goods”.

Wafung Wong, MSc. (2011). Thesis topic: “Efficiency and Equilibrium in Network Congestion Games”.

Leonid Tsytrinbaum, MSc. (2013). Thesis topic: “Determinants of Performance in the Microfinance Industry: The Role of Culture” (associate supervisor: Ronny Manos from the College of Management).

Gal Danino, MSc (2017). Thesis topic: “Privacy Protection and Welfare in Online Advertising”(co-supervised with Itai Arieli).

Theses in Progress

Gal Bahar, PhD (jointly with Moshe Tennenholtz).

Itay Kaveler, PhD.

Moran Koren, PhD (jointly with Itai Arieli).

POST-DOC FELLOWS

Gail Gilboa-Freedman, 2015-16

Argyrios Deligkas, 2016-18

Urban Larsson, 2016-18.

RESEARCH GRANTS

NSF SBR-9730385 award for the research proposal “Rational and Semi-Rational Learning—Theory and Applications”, 1997–2000. \$268,000 (jointly with A. Sandroni).

BSF Grant no. 97-00113 for the research proposal “Rational and Semi-Rational Learning—Theory and Applications”, 1998–2003. \$60,000 (jointly with A. Sandroni).

Haifa Univ.-Technion Joint Grant, 1999–2000. \$5,000 (jointly with U. Gneezy).

Gordon Center, “Approximately Optimal Mechanism Design via Differential Privacy”, 2010–12. \$13,000.

Sapir Center for Development grant. “Privacy in Mechanism Design”, 48,000 ILS. 2011–2012 (jointly with Kobbi Nissim).

TASP (Technion Autonomous Systems Program), “Free Riding and Fault Tolerance among Autonomous Systems”, \$10,000. 2011–12 (jointly with Yoram Moses).

Sapir Center for Development grant. “Privacy Aware Mechanism Design”, 48,000 ILS. 2012–2013 (jointly with Kobbi Nissim).

ISF Grant no. 276/12, “Privacy and Markets”. 235,000 ILS annually for 4 years, 2012–2016 (jointly with Kobbi Nissim).

MSFT - Technion EC Research Center grant, “Competition between Information Markets”, \$55,000, 2012–2016 (jointly with Dov Monderer).

Cornell Tech Faculty Exchange Program grant, 2014–15, \$6,400 (jointly with Rafael Pass).

Gordon Center, “Towards a Formal Model of Privacy in Systems”, 2015–16. \$10,000.

TASP (Technion Autonomous Systems Program), “Perception Games and Rational Autonomous Agents”, \$16,000. 2015–16.

PUBLICATIONS

Theses:

M.Sc. thesis: "The Asymptotic Value of Two House Weighted Majority Games", Tel Aviv University, 1991.

Ph.D. thesis: "Dynamic Learning in Multi-Agent Games", Tel Aviv University, 1995.

Refereed papers in professional journals:

Published (*) denotes joint work with students)

1. Lehrer, Ehud and Rann Smorodinsky. "Compatible Measures and Merging", *Mathematics of Operations Research*, 21 (3), 697–706, 1996.
2. Lehrer, Ehud and Rann Smorodinsky. "Repeated Large Games with Incomplete Information", *Games and Economic Behavior*, 18, 116–134, 1997.
3. Sandroni, Alvaro and Rann Smorodinsky. "The Speed of Rational Learning", *International Journal of Game Theory*, 28, 199–210, 1999.
4. Jackson, Matthew O., Ehud Kalai and Rann Smorodinsky. "Bayesian Representation of Stochastic Processes under Learning: de Finetti Revisited", *Econometrica*, 67 (4), 875–894, 1999.
5. Kalai, Ehud, Ehud Lehrer and Rann Smorodinsky. "Calibrated Forecast and Merging", *Games and Economic Behavior* (special issue in honor of David Blackwell), 29, 151–169, 1999.
6. Lehrer, Ehud and Rann Smorodinsky. "Relative Entropy in Sequential Decision Problems", *Journal of Mathematical Economics*. 33, 425–439, 2000.
7. Al-Najjar, Nabil and Rann Smorodinsky. "Pivotal Players and the Characterization of Influence". *Journal of Economic Theory*, 92, 318–342, 2000.
8. Al-Najjar, Nabil and Rann Smorodinsky. "Provision of Public Goods with Bounded Project Costs". *Economics Letters*, 67, 297–301, 2000.
9. Smorodinsky, Rann. "The Reflection Effect for Constant Risk Averse Agents", *Mathematical Social Sciences*, 40, 265–276, 2000.
10. Al-Najjar, Nabil and Rann Smorodinsky. "Large Non-Anonymous Repeated Games", *Games and Economic Behavior*, 37 (1), 26–39, 2001.
11. Sandroni, Alvaro, Rann Smorodinsky and Rakesh Vohra. "Calibration with Many Checking Rules". *Mathematics of Operations Research*, 28 (1), 141–153, 2003.
12. Sandroni, Alvaro and Rann Smorodinsky. "Belief Based Equilibrium". *Games and Economic Behavior*, 47 (1), 151–171, 2004.
13. Neyman, Avraham and Rann Smorodinsky. "Asymptotic Values of Vector Measure Games". *Mathematics of Operations Research*, 29 (4), 739–775, 2004.

14. Smorodinsky, Rann. “Nash's Bargaining Solution when the Disagreement Point is Random”. *Mathematical Social Sciences*, 50 (1), 3–11, July 2005.
15. Smorodinsky, Rann and Moshe Tennenholtz. “Overcoming Free Riding in Multi-Party Computations—The Anonymous Case”. *Games and Economic Behavior*, 55 (2), 385–406, May 2006 (Mini Special Issue: Electronic Market Design).
16. Gneezy, Uri and Rann Smorodinsky. “All Pay Auctions—An Experimental Study”. *Journal of Economic Behavior and Organization*, 61/2, October, 2006
17. Al-Najjar, Nabil and Rann Smorodinsky. “The Efficiency of Competitive Mechanisms under Private Information”. *Journal of Economic Theory*, 137, 383–403, 2007.
18. Al-Najjar, Nabil, Alvaro Sandroni, Rann Smorodinsky and Jonathan Weinstein. "Testing Theories with Learnable and Predictive Representations". *Journal of Economic Theory*, 145, 2203–2217, November 2010.
19. (*) Aricha, Inbar and Rann Smorodinsky. "Information Elicitation and Sequential Mechanisms". *International Journal of Game Theory*, 42 (4), 931–946, 2013.
20. (*) Kuniavski Sergey and Rann Smorodinsky. “Greediness and Equilibrium in Congestion Games”. *Economics Letters*, 121 (3), 499–503, December 2013.
21. (*) Kuniavski Sergey and Rann Smorodinsky. “Equilibrium and Potential in Coalitional Congestion Games.” *Theory and Decision*, 76 (1), 69–79, 2014.
22. (*) Polevoy, Gleb, Rann Smorodinsky and Moshe Tennenholtz. “Signaling Competition and Social Welfare.” *ACM Transactions on Economics and Computation (TEAC)*, 2 (1), March 2014.
23. (*) Rozen, Rakefet and Rann Smorodinsky. "Ex-Post Equilibrium and VCG Mechanisms". *Transactions on Economics and Computation (TEAC)*, 2 (2), June, 2014.
24. (*) Levy, Omer, Rann Smorodinsky and Moshe Tennenholtz. “Undivide and Conquer: On Selling a Divisible and Homogeneous Good. *The B.E. Journal of Theoretical Economics*, 15 (1), 1–23. ISSN (Online) 1935–1704, ISSN (Print) 2194–6124, DOI: 10.1515/bejte-2014-0002, July 2014.
25. Fu, Hu, Robert D. Kleinberg, Ron Lavi and Rann Smorodinsky. “Job Security, Stability and Production Efficiency”. *Theoretical Economics*, Vol. 12 (1), January 2017.
26. Fu, Hu, Robert D. Kleinberg, Ron Lavi and Rann Smorodinsky. "Stability and Auctions in Labor Markets with Job Security". Forthcoming, *Economics Letters* (2017).
27. Gradwohl, Ronen and Rann Smorodinsky. “Perception Games and Privacy”. *Games and Economic Behavior*, Forthcoming (2017).

Papers under review

28. Nissim, Kobbi, Rann Smorodinsky and Moshe Tennenholtz, “Segmentation, Incentives and Privacy”.

29. (*) Bahar, Gal, Rann Smorodinsky and Moshe Tennenholtz. "Designing social networks for efficient learning".
30. Gilboa-Freedman, Gail; Kobbi Nissim and Rann Smorodinsky. "On the Characterization of Privacy Loss".

Review papers

31. Lehrer, Ehud and Rann Smorodinsky. "Merging and Learning" in *Statistics, Probability and Game Theory: Papers in Honor of David Blackwell* (Tom Ferguson, Lloyd Shapley and J.B. MacQueen, eds.), IMS Lecture Notes-Monograph Series, Volume 30, 1996.

Refereed papers in conference proceedings

32. Smorodinsky, Rann and Moshe Tennenholtz. "Sequential Information Elicitation in Multi-Agent Systems", Twentieth Conference on Uncertainty in Artificial Intelligence (UAI-2004), 2004.
33. Nissim, Kobbi, Rann Smorodinsky and Moshe Tennenholtz. "Approximately Optimal Mechanism Design via Differential Privacy", *The 3rd Innovations in Theoretical Computer Science (ITCS) Conference*, 2012.
34. Orlandi, Claudio, Kobbi Nissim and Rann Smorodinsky. "Privacy Aware Mechanism Design." *EC2012*, 2012.
35. (*) Bahar, Gal, Rann Smorodinsky and Moshe Tennenholtz. "Economic Recommendation Systems". EC17, 2016. <http://dl.acm.org/citation.cfm?id=2940719>
36. Arieli, Itai, Yakov Babichenko and Rann Smorodinsky. "Forecast Aggregation". EC18, 2017. Forthcoming.
37. Babichenko Yakov, Yuval Emek, Michal Feldman, Boaz Patt-Shamir, Ron Peretz and Rann Smorodinsky. "Stable Secretaries". EC18, 2017. Forthcoming.

Research reports or case reports (unpublished)

38. (*) Agmon, Orna and Rann Smorodinsky. "Off-Line Cluster Scheduling", 2002.
39. (*) Hazanov, Olga and Rann Smorodinsky. "Inspecting 'Lemons'—an Anecdotal Example", 2004.
40. Smorodinsky, Rann. "A Simple Model of Oligarchy" (2004).
41. (*) Galed, Eran and Rann Smorodinsky. "A Simple Model of Sequential Public Good Mechanisms", 2010.
42. Hochman, Gal and Rann Smorodinsky. "Why Some Governments Choose to Initiate Negotiations, while Others Enter the Agreement at a Later Date?"
43. (*) Smorodinsky, Rann and Wafung Wong. "Braess Paradox in Atomic Congestion Games", 2011.

CONFERENCES

Plenary, keynote or invited Talks:

MSJ Math. Econ. Conference, Austin, TX, April 1996: "Calibrated Forecasting and Merging".

Universita' D'Annunzio, Pescara, Italy, May 1997: Mini-course on Rational Learning,

Seminar in Mathematical Economics (Danish Research Council), Copenhagen, Denmark, June 1999: "Bayesian Representation of Stochastic Processes under Learning: de Finetti Revisited".

Workshop on "On-Line Decision Making in Game Theory and Computer Sciences", DIMACS (Rutgers University), July 1999: "Bayesian Representation of Stochastic Processes under Learning: de Finetti Revisited" and "Calibration with Many Checking Rules".

Taj-IBM Conference on Game Theory & Its Applications, Mumbai, India. Jan. 2003: "Equilibrium in an Asynchronous Model".

Conference on Current Trends in Economics (organized by the Society for the Advancement of Economic Theory), Rhodes, June 2003: Equilibrium in Asynchronous Models".

Workshop on Markets and Computation, January 2005, Dagstuhl, Germany: "Overcoming Free Riding in Multi-Party Computations—The Anonymous Case".

American Economic Association meetings, Boston USA, January 6–8, 2006.

FCNS workshop on "Future Challenges in Network Security: From Blue-Sky Research down the Network Packets". Prague, Czech Republic, June 21–23, 2010

Workshop on "Decentralized Mechanism Design", Princeton, New Jersey, June 3–4, 2010.

Workshop on "Stochastic Methods in Game Theory", Ettore Majorana Centre, Erice, Sicily, September 8–16, 2010.

"Game Theory, Operations Research and Applications", Hyderabad, India. Dec 21–22, 2012 (keynote speaker).

4th Workshop on Stochastic Methods in Game Theory, Ettore Majorana Centre, Erice, Sicily, September 6–15, 2013 (eventually I did not attend).

Workshop on "Learning in Social Networks", IESE, Barcelona, Spain, July 1–3, 2014.

Invited Seminars:

"Overcoming Free Riding in Multi-Party Computations— The Anonymous Case"

- Tel-Aviv University, Game Theory seminar, Nov. 2003.
- Hebrew University, Center for Rationality, Nov. 2003.
- Cornell University, CS Theory seminar, Dec. 2003.
- Stanford University, Robotics lab seminar at the CS Department, Dec. 2003.
- Northwestern University, Joint Theory seminar of Graduate School of Business and Economics Department, Dec. 2003.

"Equilibrium in an Asynchronous Model"

- Stanford University, Joint Theory seminar of Graduate School of Business and Economics Department, Nov. 2003.

"The Efficiency of Competitive Mechanisms under Private Information"

- Rutgers University, Economics seminar: October, 2004.
- Chicago University, Economics seminar, October 2004.
- Washington University, Joint Theory seminar of Graduate School of Business and Economics Department, October 2004
- Hebrew University, Institute for Advanced Studies, Dec. 2004.

"Testing Theories with Learnable and Predictive Representations"

- Tel-Aviv University, Economic Theory seminar, Nov. 2008.

"Approximately Optimal Mechanism Design via Differential Privacy"

- Brown University, Economic Theory seminar, Oct. 2010.
- Northwestern University, Joint Theory seminar of Graduate School of Business and Economics Department, Oct. 2010.
- Oxford University, Economic Theory seminar, Feb. 2011.
- Cambridge University, Economic Theory seminar, Feb. 2011.
- London School of Economics, Economic Theory seminar, Feb. 2011.
- Stanford University, Joint Theory seminar of Graduate School of Business and Economics Department, May 2011.
- Caltech, HSS seminar, May 2011.
- UCSD, Rady Business School Theory seminar, May 2011.

"Job Security, Stability and Production Efficiency"

- Northwestern University, Bag-Lunch Theory seminar, Oct 2013.
- Tel-Aviv University Economics seminar, March 2014.
- Toulouse School of Economics, April 2014.
- Paris Game Theory seminar (joint to all Paris universities), May 2014.
- IESE Business School, Barcelona, June 2014.

Contributed Talks:

- International Conference on Game Theory, Stony Brook, July 1993: "Large Games with Incomplete Information".
- International Conference on Game Theory, Hebrew University, June 1995: "Settlement Schemes—Expect the Unexpected".
- Midwest Mathematical Economics Meetings at Minneapolis, Oct. 1995: "Large Games with Incomplete Information".
- Midwest Mathematical Economics Meetings at Purdue, April 1996: "Calibrated Forecasting and Merging".
- Game Theory Conference, St. Petersburg, June 1996: "Calibrated Forecasting and Merging".

- Midwest Mathematical Economics Meetings at Washington University, St. Louis, Oct. 1996: "Patterns, Types and Bayesian Learning".
- Midwest Mathematical Economics Meetings at Northwestern University, April 1997: "Pivotal Players and the Characterization of Influence".
- Third Spanish Meetings on Game Theory, June 1998, Barcelona, Spain: "Dynamic Foundations for Equilibrium".
- Workshop on Learning in Game Theory, July 1998, Stonybrook, USA: "Dynamic Foundations for Equilibrium".
- The Game Theory Society Congress, July 2000, Bilbao, Spain: "Equilibrium in an Asynchronous Model".
- Israeli Game Theory Meetings, 2003, Tel-Aviv University: "Equilibrium in an Asynchronous Model".
- Murat Sertel Game Theory Conference, May 2004, Istanbul, Turkey: "The Efficiency of Competitive Mechanisms under Private Information".
- The Game Theory Society Congress, July 2004, Marseilles, France: "Overcoming Free Riding in Multi-Party Computations—The Anonymous Case."
- Sixth Spanish Meetings on Game Theory, July 2004, Elche, Spain: "Overcoming Free Riding in Multi-Party Computations—The Anonymous Case."
- The European Economic Association and Econometric Society Meetings 2004 (EEA-ESEM 2004), Madrid, Aug. 2004: "The Efficiency of Competitive Mechanisms under Private Information".
- Workshop on "Large Scale Games", DIMACS, April 2005, held at Northwestern University: "The Efficiency of Competitive Mechanisms under Private Information".
- 2nd Brazilian Meeting of the Game Theory Society, Sao-Paulo, July 2010: "Approximately Optimal Mechanism Design via Differential Privacy".
- European Econometric Society meetings, Aug 2010, Glasgow: "Testing Theories with Learnable and Predictive Representations".
- Game Theory 4th World Congress, July 2012, Istanbul: "Signalling Competition".
- Midwest Mathematical Economics Meetings at Ann-Arbor, MI, October 2013: "Job Security, Stability and Production Efficiency".
- Dynamic Approach to Game and Economic Theory, Hebrew University, June 2015: "Perception Games and Privacy".