

CONTACT INFORMATION	Princeton University Department of Economics 229 Julis Romo Rabinowitz Building Princeton, NJ 08544	+1 (626) 567-9223 fsandomi@princeton.edu https://fedors.info/ Google Scholar profile
RESEARCH INTERESTS	microeconomic theory, information economics, mechanism design, fair division, algorithmic economics, optimal transportation, and majorization methods	
ACADEMIC POSITIONS	Princeton University, USA — Assistant Professor — Associate Research Scholar & Lecturer California Institute of Technology, USA — Linde Postdoctoral Fellow in Economics, PIMCO Fellow in Data Science Technion, Israel — postdoc at Game Theory group (Dept. of Industrial Engineering & Management) — member of Mechanism Design for Data Science group National Research University Higher School of Economics, Russia — senior researcher (remote since 2018) at International Lab. of Game Theory — head of the laboratory St.Petersburg State University, Russia — researcher at Chebyshev Laboratory (Dept. of Mathematics)	2025- ... 2023-2024 2021-2023 2018-2021 2015-2022 2017-2018 2012-2015
EDUCATION	Central Economics and Mathematics Institute, Russian Academy of Sciences — Ph.D. (Candidate of Sciences) in Mathematical Methods of Economics St.Petersburg State University — M.Sc. in Mathematical Physics — B.Sc. in Mathematical Physics	2014 2011 2009
WORKING PAPERS	“Narrow Bracketing and Risk in Games” with Po Hyun Sung, Omer Tamuz, and Ben Wincelberg Revise&Resubmit in <i>Journal of Political Economy</i> “Independence of Irrelevant Decisions in Stochastic Choice” with Po Hyun Sung, Omer Tamuz, and Ben Wincelberg Revise&Resubmit in <i>American Economic Review</i> “Constructive Blackwell’s Theorem” with Itai Arieli and Yakov Babichenko “Extreme Equilibria: The Benefits of Correlation” with Kirill Rudov and Leeat Yariv “Stable Matching as Transportation” with Federico Echenique and Joseph Root “Feasible Conditional Belief Distributions” with Itai Arieli and Yakov Babichenko “The geometry of consumer preference aggregation” with Philip Ushchev “Beckmann’s approach to multi-item multi-bidder auctions” with Alexander V. Kolesnikov, Aleh Tsivinski, and Alexander P. Zimin “Bayesian persuasion with mediators” with Itai Arieli and Yakov Babichenko “Efficiency in random resource allocation and social choice” with Federico Echenique, Joseph Root “On social networks that support learning” with Itai Arieli and Rann Smorodinsky	

MAIN
PUBLICATIONS

- “Private private information” with Kevin He and Omer Tamuz
forthcoming in *Journal of Political Economy*
- “Feasible joint posterior beliefs” with Itai Arieli, Yakov Babichenko, and Omer Tamuz
Journal of Political Economy, 2021, 129(9):2546-2594
EC’20 best paper award
- “Competitive division of a mixed manna” with Anna Bogomolnaia, Herve Moulin, Elena Yanovskaya
Econometrica, 2017, 85(6):1847-1871
- “On the fair division of a random object” with Anna Bogomolnaia and Herve Moulin
Management Science, 2022, 68(2):1174-1194
- “Fair division with minimal sharing” with Erel Segal-Halevi
Operations Research, 2022, 70(3):1762-1782

OTHER
JOURNAL
PUBLICATIONS

- “On the origin of the Boltzmann distribution” with Omer Tamuz
Mathematische Annalen, 2025, 392:5617–5638
- “Algorithms for competitive division of chores” with Simina Brânzei
Mathematics of Operations Research, 2023, 49(1):398-429
- “Feasible joint posterior beliefs through examples” with Itai Arieli, Yakov Babichenko, Omer Tamuz
SIGecom Exchanges, 2021
- “Representative Committees of Peers” with Reshef Meir and Moshe Tennenholtz
Journal of Artificial Intelligence Research, 2021, 71:401-429
- “A polynomial-time algorithm for computing a Pareto optimal and almost proportional allocation”
with Haris Aziz and Herve Moulin
Operations Research Letters, 2020, 48(5):573-578
- “Dividing bads under additive utilities” with Anna Bogomolnaia, Herve Moulin, Elena Yanovskaya
Social Choice and Welfare, 2019, 52(3):395-417
- “On repeated zero-sum games with incomplete information and asymptotically bounded values”
Dynamic Games and Applications, 2018, 8(1):180-198
- “Repeated games of incomplete information with large sets of states”
International Journal of Game Theory, 2014, 43(4):767-789
- “An exact renormalization formula for the Maryland model” with Alexander Fedotov
Communications in Mathematical Physics, 2015, 334(2):1083-1099

REFEREED
CONFERENCE
PUBLICATIONS

- “Independence of Irrelevant Decisions in Stochastic Choice” with Po Hyun Sung, Omer Tamuz, and Ben Wincelberg
ACM Conference on Economics and Computation (EC’25), 2025 (extended abstract)
- “Constructive Blackwell’s Theorem” with Itai Arieli and Yakov Babichenko
ACM Conference on Economics and Computation (EC’25), 2025 (extended abstract)
- “Extreme Equilibria: The Benefits of Correlation” with Kirill Rudov and Leeat Yariv
ACM Conference on Economics and Computation (EC’25), 2025 (extended abstract)
- “Decomposable Stochastic Choice” with Omer Tamuz
ACM Conference on Economics and Computation (EC’24), 2024 (extended abstract)
- “Stable Matching as Transportation” with Federico Echenique, Joseph Root
ACM Conference on Economics and Computation (EC’24), 2024 (extended abstract)
- “Private private information” with Kevin He and Omer Tamuz
ACM Conference on Economics and Computation (EC’22), 2022 (extended abstract)
- “Persuasion as transportation” with Itai Arieli and Yakov Babichenko
ACM Conference on Economics and Computation (EC’22), 2022 (extended abstract)
- “Protecting the protected group” with Omer Ben-Porat and Moshe Tennenholtz
The Thirty-Fifth AAAI Conference on Artificial Intelligence (AAAI-21), 2021
- “On social networks that support learning” with Itai Arieli and Rann Smorodinsky,
ACM Conference on Economics and Computation (EC’21), 2021 (extended abstract)

TEACHING & ADVISING	Instructor	
	— “Mathematics for Economists” (ECO 500), Princeton GEC outstanding teaching award (2023)	2023-2025
	— “Statistics and Data Analysis for Economics” (ECO 202), Princeton	2024-2025
	— “Algorithmic Economics” (CS/SS/EC149), Caltech developed from scratch intro to economic design for CS/math grads & undergrads	2022-2023
	— “Information in Games,” Technion, co-taught with Rann Smorodinsky	2020
	— “Introduction to Mechanism Design,” HSE, co-taught with Alexander Nesterov	2017
	— Probability, Calculus 1, Algebra 1, St.Petersburg State University	2013-2014
	Advisor, graduate	
	— Martin Vaeth (committee member, Princeton 2025)	
	— Zijian Tao (committee member, Caltech 2022),	
	— Alisa Maricheva & Yulia Ibragimova (M.Sc. theses, HSE 2018)	
	Advisor, undergraduate	
	— Won-Jae Chang & Lawrence Wang (Princeton 2024),	
	— Egor Kravchenko (St.Petersburg State University 2022), Yulia Ibragimova (HSE 2016)	
SERVICE	Referee	
	— Journals: ECMA, JPE, AER, JET, TE, GEB, AEJ:m, ET, SCW, MOR, EJOR, TEAC, IJGT	
	— Grants: German-Israeli Foundation, Israel Science Foundation	
	Program committee member	
	— the Vita Kreps International Prize in Game Theory	2025
	— ACM Conference on Economics and Computation; Senior PC member since 2023	2019-2025
	— The 17th Conference on Web and Internet Economics (WINE)	2021
	— Russian Game Theory Olympiad	2018-2021
	Organizer	
	— the Vita Kreps International Prize in Game Theory	2025
GRANTS & AWARDS	— weekly economic theory seminar at Princeton	2024-2025
	— session “Correlation and Incentives” at Stony Brook Conference	2024
	— Victoria Kreps Memorial Prize for young game theorists and economic theorists	2021
	— conference “New Directions in Social Choice in St.Petersburg,” HSE	
	— conference “Economic Design and Algorithms in St.Petersburg,” HSE,	2019
	— school “Game Theory: Applications, Networks, Emotions,” HSE	
	— conference “Algorithmic aspects of Social Choice and Auctions,” HSE	2018
	— conference “Advances in Fair Division,” HSE	2017
	— school “Fair Division: Between Economics, Mathematics and Computer Science,” HSE	
	— conference “Game Theory and Mechanism Design,” HSE	2016
	— school “Computational Social Choice and Fair Division,” HSE	
	— research seminar in economic theory, HSE	2015-2018
	Other service	
	— Mentor, “Mentorship workshop,” ACM Conference on Economics and Computation (EC)	2022
	— multiple popular lectures on Game Theory and Economic Design for undergrads and gifted high-school students	2015-2018
	— GEC outstanding teaching award, Princeton	2023
	— PIMCO Fellowship in Data Science, Linde Institute Fellowship in Economics	2022-2023
	— Best paper award at ACM Conference on Economics and Computation (EC’20)	2020
	— RFBR 19-01-00762 “Cardinal mechanisms for resource allocation”	2019-2021
	— Lady Davis Postdoctoral Fellowship, Technion	2018-2019
	— RFBR 16-01-00269 “Asymptotic problems of game theory”	2016-2018
	— RFBR 13-01-00462 “Variability of beliefs in multi-stage interactions”	2013-2015
	— B.L. Ovsieievich prize in economics	2013
	— V. Deych prize for B.Sc. thesis in mathematical physics	2009

INVITED SEMINARS	— Kent, MIT-Harvard, Madison, Rochester, Rutgers, OSU, UoG, CUNY	2025
	— NYU, Emory, Penn State	2024
	— Caltech, Princeton, Berkeley, Toronto, Essex, UCL, Duke, Brown, Drexel, Western	2023
	— Bonn, Northwestern, CMU BS, UCSD, Edinburgh, HUJI Econ-CS, Technion IE&M, Purdue CS	2022
	— PSE, Joint Hong Kong Theory Seminar, Caltech Econ., Caltech CMS, Caltech CMI, HSE Econ.	2021
	— Cornell Econ., TAU & HUJI, HSE Math, Technion & Bar-Ilan	2020
	— Stanford MS&E, Caltech Econ., Bar-Ilan Econ., HUJI Econ-CS, Technion IE&M, TAU CS, TAU Math	2019
	— Rochester Econ., Technion IE&M	2018
	— HUJI Econ-CS	2017
	— HUJI Econ	2013
CONFERENCES	— ASSA Annual meeting, EC'25	2025
	— Wharton Theory, Cowles Summer, BFI Theory, EC'24, Stony Brook	2024
	— EC'22, INFORMS Annual Meeting, Stony Brook, INFORMS Market Design, LA Theory	2022
	— EC'21, LA Theory workshop	2021
	— EC'20 (best paper award), CMID20, Dynamics and Information Workshop TAU	2020
	— “De Aequa Divisione” at LUISS	2019
	— 22nd CTN Workshop, MATCH UP, “Imperfect Markets” at NES	2017
	— Congress of the GT Society, COMSOC 2016	2016
	— MAGTA	2014
	— 5th Israeli GT conference	2013
	— Games and Strategy in Paris	2012