

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	<p>“Narrow Bracketing and Risk in Games” with Po Hyun Sung, Omer Tamuz, and Ben Wincelberg Revise&Resubmit in <i>Journal of Political Economy</i></p> <p>“Independence of Irrelevant Decisions in Stochastic Choice” with Po Hyun Sung, Omer Tamuz, and Ben Wincelberg Revise&Resubmit in <i>American Economic Review</i></p> <p>“Constructive Blackwell’s Theorem” with Itai Arieli and Yakov Babichenko</p> <p>“Extreme Equilibria: The Benefits of Correlation” with Kirill Rudov and Leeat Yariv</p> <p>“Stable Matching as Transportation” with Federico Echenique and Joseph Root</p> <p>“Feasible Conditional Belief Distributions” with Itai Arieli and Yakov Babichenko</p> <p>“The geometry of consumer preference aggregation” with Philip Ushchev</p> <p>“Beckmann’s approach to multi-item multi-bidder auctions” with Alexander V. Kolesnikov, Aleh Tsyvinski, and Alexander P. Zimin</p> <p>“Bayesian persuasion with mediators” with Itai Arieli and Yakov Babichenko</p> <p>“Efficiency in random resource allocation and social choice” with Federico Echenique, Joseph Root</p> <p>“On social networks that support learning” with Itai Arieli and Rann Smorodinsky</p>	

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 2023-2025
GEC outstanding teaching award (2023)
- “Statistics and Data Analysis for Economics” (ECO 202), Princeton 2024-2025
- “Algorithmic Economics” (CS/SS/EC149), Caltech 2022-2023
developed from scratch intro to economic design for CS/math grads & undergrads
- “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
- 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 2015-2018
for undergrads and gifted high-school students

GRANTS
& AWARDS

- 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. Ovsievich 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