

CONTACT INFORMATION	Princeton University Department of Economics 277 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 — 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)	2023-2025 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	“Decomposable Stochastic Choice” with Omer Tamuz “On the origin of the Boltzmann distribution” with Omer Tamuz “Private private information” with Kevin He and Omer Tamuz R&R in <i>Journal of Political Economy</i> “The geometry of consumer preference aggregation” with Philip Ushchev “Persuasion as transportation” with Itai Arieli and Yakov Babichenko “Beckmann’s approach to multi-item multi-bidder auctions” with Alexander V. Kolesnikov, Aleh Tsyvinski, 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 R&R in <i>Journal of Economic Theory</i>	
MAIN PUBLICATIONS	“Feasible joint posterior beliefs” with Itai Arieli, Yakov Babichenko, and Omer Tamuz <i>Journal of Political Economy</i> , 2021, 129(9), EC’20 best paper award “Competitive division of a mixed manna” with Anna Bogomolnaia, Herve Moulin, Elena Yanovskaya <i>Econometrica</i> , 2017, 85(6):1847-1871 “On the fair division of a random object” with Anna Bogomolnaia and Herve Moulin <i>Management Science</i> , 2022, 68(2):1174-1194 “Fair division with minimal sharing” with Erel Segal-Halevi <i>Operations Research</i> , 2022, 70(3):1762-1782	

OTHER
JOURNAL
PUBLICATIONS

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- “Algorithms for competitive division of chores” with Simina Brânzei
Mathematics of Operations Research, 2023
- “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

REFERRED
CONFERENCE
PUBLICATIONS

- “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
best instructor award
 - “Algorithmic Economics” (CS/SS/EC149), Caltech 2022-2023
developed from scratch intro to economic design for CS/math grads & undergrads
 - “Information in Games,” Technion 2020
co-taught with Rann Smorodinsky
 - “Introduction to Mechanism Design,” HSE University 2017
co-taught with Alexander Nesterov
 - Probability, Calculus 1, Algebra 1, St.Petersburg State University 2013-2014
- Advisor, graduate
- Zijian Tao (Ph.D. thesis 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: Econometrica, JET, TE, GEB, AEJ:micro, ET, SCW, MOR, EJOR, TEAC
 - Grants: German-Israeli Foundation, Israel Science Foundation
- Program committee member
- ACM Conference on Economics and Computation (EC); Area Chair in 2023 2019-2023
 - The 17th Conference on Web and Internet Economics (WINE) 2021
 - Russian Game Theory Olympiad 2018-2021

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Organizer		
	— 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
GRANTS & AWARDS		
	— PIMCO Fellowship in Data Science, Linde Institute Fellowship in Economics	2022-2023
	— 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		
	— 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		
	— EC’22 (2 papers), INFORMS Annual Meeting, Stony Brook Game Theory, INFORMS Workshop on Market Design, LA Theory workshop	2022
	— EC’21, LA Theory workshop	2021
	— EC’20 (best paper award), CMID20, Dynamics and Information Workshop TAU	2020
	— “De Aequa Divisione” at LUISS (invited talk and tutorial)	2019
	— 22nd CTN Workshop, MATCH UP, “Imperfect Markets” at NES (invited talk and tutorial)	2017
	— Congress of the GT Society, COMSOC 2016	2016
	— MAGTA	2014
	— 5th Israeli GT conference	2013
	— Games and Strategy in Paris	2012
REFERENCES		
	Omer Tamuz Div. of the Humanities and Social Sciences, Caltech tamuz@caltech.edu	Federico Echenique Dept. of Economics, UC Berkley fede@econ.berkeley.edu
	Herve Moulin A. Smith Business School, University of Glasgow herve.moulin@glasgow.ac.uk	Aleh Tsyvinski Dept. of Economics, Yale a.tsyvinski@yale.edu