$Fedor\ Sandomirskiy\ (legal\ spelling:\ Sandomirskii)$

CONTACT INFORMATION	277 Julis Romo Rabinowitz Building	+1 (626) 567-9223 ndomi@princeton.edu https://fedors.info/ Google Scholar profile	
RESEARCH INTERESTS	microeconomic theory, information economics, mechanism design, fair divis nomics, optimal transportation and majorization methods	ion, algorithmic eco-	
ACADEMIC POSITIONS	Princeton University, USA	2023-2025	
	— Associate Research Scholar & Lecturer	2021 2022	
	California Institute of Technology, USA — Linde Postdoctoral Fellow in Economics, PIMCO Fellow in Data Science	2021-2023 e	
	Technion, Israel	2018-2021	
	 postdoc at Game Theory group (Dept. of Industrial Engineering & Man member of Mechanism Design for Data Science group National Research University Higher School of Economics, Russia 	agement)	
	— senior researcher (remote since 2018) at International Lab. of Game The	eory 2015-2022	
	— head of the laboratory	2017-2018	
	St. Petersburg State University, Russia — researcher at Chebyshev Laboratory (Dept. of Mathematics)	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	2014	
	— M.Sc. in Mathematical Physics	2011	
	— B.Sc. in Mathematical Physics	2009	
Working	"Decomposable Stochastic Choice" with Omer Tamuz		
Papers	"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 Smorod R&R in <i>Journal of Economic Theory</i>	linsky	
Main Publications	"Feasible joint posterior beliefs" with Itai Arieli, Yakov Babichenko, and Omer Tamuz Journal of Political Economy, 2021, 129(9), 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

"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: circumventing harmful fairness" 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 EXPERIENCE

Instructor

— "Mathematics for Economists" (ECO 500), Princeton	2023
— "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," Higher School of Economics	2017
co-taught with Alexander Nesterov	
— Probability, Calculus 1, Algebra 1, St.Petersburg State University	2013-2014
Supervisor	
— Egor Kravchenko, St.Petersburg State University	2022
undergrad project "Belief covariance: tight bounds"	
— Alisa Maricheva, Higher School of Economics	
M.Sc. thesis "Fair division of indivisible goods with or without money transfers"	2018
— Yulia Ibragimova, Higher School of Economics	
M.Sc. thesis "Online procurement auctions: corruption detection"	2018
B.Sc. thesis "Competitive mechanisms for fair division of indivisible goods"	2016

SERVICE

Referee

- Journals: JET, TE, GEB, AEJ:micro, ET, SCW, MOR, EJOR
- 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

	Organizer		
	— Victoria Kreps Memorial Prize for young game th		21
	 conference "New Directions in Social Choice in St conference "Economic Design and Algorithms in St 		10
	— school "Game Theory: Applications, Networks, E		19
	— conference "Algorithmic aspects of Social Choice		18
	— conference "Advances in Fair Division," HSE	20	
	— school "Fair Division: Between Economics, Mathe		
	— conference "Game Theory and Mechanism Design	," HSE 20	16
	— school "Computational Social Choice and Fair Di		
	— research seminar in economic theory, HSE	2015-20	18
	Other service	E	വ
	 Mentor, "Mentorship workshop," ACM Conference Committee member, Ph.D. defense of Zijian Tao, 		22
	— I gave multiple popular lectures on Game Theory		18
	for undergrads and gifted high-school students	and Economic Design 2019 20.	10
Grants	— PIMCO Postdoctoral Fellowship in Data Science	2022-20	23
& Awards	— RFBR 19-01-00762 "Cardinal mechanisms for reso		
	— Lady Davis Postdoctoral Fellowship, Technion	2018-20	19
	— RFBR 16-01-00269 "Asymptotic problems of gam		18
	— RFBR 13-01-00462 "Variability of beliefs in multi		
	— B.L. Ovsievich prize in economics	20	
	— V. Deych prize for B.Sc. thesis in mathematical p	hysics 200	09
Lyrrana Carryina			00
INVITED SEMINARS	 Caltech, Princeton, Berkeley, Toronto, Essex, UCI Bonn, Northwestern, CMU BS, UCSD, Edinburgh 		
	Technion IE&M, Purdue CS	i, i1031 Econ-CS, 20.	44
	— PSE, Joint Hong Kong Theory Seminar, Caltech	Econ., Caltech CMS, 20	21
	Caltech CMI, HSE Econ.	,,	
	— Cornell Econ., TAU & HUJI, HSE Math, Technio	n & Bar-Ilan 20:	20
	— Stanford MS&E, Caltech Econ., Bar-Ilan Econ., HUJI Econ-CS, Technion IE&M,		19
	TAU CS, TAU Math		
	— Rochester Econ., Technion IE&M	20	
	— HUJI Econ-CS — HUJI Econ	20 20	17
	— HOJI Econ	20	19
Conferences	— EC'22 (2 papers), INFORMS Annual Meeting, St	ony Brook Game Theory, 20	22
CONFERENCES	INFORMS Workshop on Market Design, LA Tl	* .	44
	— EC'21, LA Theory workshop	20:	21
	— EC'20 (best paper award), CMID20, Dynamics ar		
	— "De Aequa Divisione" at LUISS (invited talk and		
	— 22nd CTN Workshop, MATCH UP,	20	17
	"Imperfect Markets" at NES (invited talk and t		
	— Congress of the GT Society, COMSOC 2016	20	
	MAGTA5th Israeli GT conference		14
	— Games and Strategy in Paris	20	12
	Samo and Sharey III I and	20	14
References	Omer Tamuz	Federico Echenique	
TUDI DIUDITODO	Div. of the Humanities and Social Sciences, Caltech	Dept. of Economics, UC Berkley	
	tamuz@caltech.edu	fede@econ.berkeley.edu	
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	Herve Moulin	Aleh Tsyvinski	
	A. Smith Business School, University of Glasgow	Dept. of Economics, Yale	
	herve.moulin@glasgow.ac.uk	a.tsyvinski@yale.edu	