

CONTACT INFORMATION	University of Southern California Department of Mathematics Kaprielian Hall, office 406h Phone: (+1) 213 952 6594 Email: dostrovs@usc.edu	
WEBSITE	ostrodmit.github.io	
OTHER LINKS:	Google Scholar • GitHub • YouTube	
RESEARCH INTERESTS	<ul style="list-style-type: none"> • <i>Mathematical statistics:</i> <ul style="list-style-type: none"> – high-dimensional & robust estimation, adaptation, testing, nonparametrics. • <i>Optimization theory:</i> <ul style="list-style-type: none"> – minimax & nonconvex problems, acceleration, non-Euclidean geometry, lower complexity bounds. • <i>Learning theory:</i> <ul style="list-style-type: none"> – fast rates/low regret in statistical/online learning; model misspecification. • <i>Signal processing:</i> <ul style="list-style-type: none"> – estimation with shift-invariant structure, super-resolution. 	
CURRENT POSITION	Assistant Professor (RTPC) of Mathematics University of Southern California, Department of Mathematics Promoter: Stanislav Minsker	since 08/2021
PREVIOUS POSITIONS	Postdoctoral Scholar University of Southern California, Viterbi School of Engineering Host: Meisam Razaviyayn ERCIM Alain Bensoussan Postdoctoral Fellow Inria Paris, France Host: Francis Bach Visiting PhD Student University of Washington, Seattle Host: Zaid Harchaoui	08/2019–08/2021 02/2018–06/2019 12/2016–05/2017
DEGREES	PhD, University of Grenoble <ul style="list-style-type: none"> • PhD Thesis: <i>Adaptive Signal Recovery by Convex Optimization</i> Advisors: Anatoli Juditsky & Zaid Harchaoui MSc & BSc, Moscow Institute of Physics and Technology	10/2014–01/2018 09/2008–07/2014

- PREPRINTS & WORKING PAPERS Nonconvex-Nonconcave Min-Max Optimization with a Small Maximization Domain
D. Ostrovskii, B. Barazandeh, M. Razaviyayn. [arXiv:2110.03950](#), 2021.
- Near-Optimal Procedures for Model Discrimination with Non-Disclosure Properties
D. Ostrovskii, M. Ndaoud, A. Javanmard, M. Razaviyayn. [arXiv:2012.02901](#), 2020.
- Efficient Primal-Dual Algorithms for Large-Scale Multiclass Classification
D. Babichev, D. Ostrovskii, F. Bach. [arXiv:1902.03755](#), 2019.
- Structure-Blind Deconvolution via Convex Optimization
D. Ostrovskii, A. Juditsky. *Available upon request*, 2018.
- BOOK CHAPTER Adaptive Denoising of Signals with Shift-Invariant Structure
D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski. [arXiv:1806.04028](#)
Foundations of Modern Statistics: V. Spokoiny's 60th Anniversary Festschrift, to appear.
- JOURNAL PUBLICATIONS Efficient Search of First-Order Nash Equilibria in Nonconvex-Concave Smooth Min-Max Problems
D. Ostrovskii, A. Lowy, M. Razaviyayn. [arXiv:2002.07919](#)
SIAM Journal on Optimization, 31:4, pp. 2508-2538, 2021.
- Finite-Sample Analysis of M-Estimators Using Self-Concordance
D. Ostrovskii, F. Bach. [arXiv:1810.06838](#)
Electronic Journal of Statistics, 15:1, pp. 326-391, 2021.
- Concentration Inequalities for the Exponential Weighting Method
Y. Golubev, D. Ostrovskii. [hal-01292413](#)
Mathematical Methods of Statistics, 23:1, pp. 20-37, 2014.
- A Dynamic Channel Reservation Method for Multimedia Streaming in Wi-Fi Mesh Networks
A. Krasilov, A. Lyakhov, D. Ostrovskii, E. Khorov.
Automation and Remote Control, 74:9, pp. 1460-1473, 2013.
- Analytical Study of the Quality of Links Established by the Neighbourhood Discovery Protocol
A. Lyakhov, D. Ostrovskii, E. Khorov.
Journal of Communications Technology and Electronics, 57:12, pp. 1314-1321, 2012.
- REFEREED CONFERENCE PUBLICATIONS Affine Invariant Covariance Estimation for Heavy-Tailed Distributions
D. Ostrovskii, A. Rudi. [arXiv:1902.03086](#)
COLT 2019
- Beyond Least-Squares: Fast Rates for Regularized Empirical Risk Minimization through Self-Concordance
U. Marteau-Ferey, D. Ostrovskii, A. Rudi, F. Bach. [arXiv:1902.03046](#)
COLT 2019
- Efficient First-Order Algorithms for Adaptive Signal Denoising
D. Ostrovskii, Z. Harchaoui. [arXiv:1803.11262](#)
ICML 2018

Structure-Blind Signal Recovery
D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski. [arXiv:1607.05712](#)
NeurIPS 2016

Adaptive Recovery of Signals by Convex Optimization
Z. Harchaoui, A. Juditsky, A. Nemirovski, D. Ostrovskii. [hal-01250215](#)
COLT 2015

Dynamic Resource Allocation for MCCA-Based Streaming in Wi-Fi Mesh Networks
E. Khorov, A. Krasilov, A. Lyakhov, D. Ostrovskii.
WiFlex 2013

Analytical Study of Neighborhood Discovery and Link Management in OLSR
E. Khorov, A. Kiryanov, A. Lyakhov, D. Ostrovskii.
IFIP 2012

REVIEWING Mathematical Programming, SIAM Journal on Optimization, Annals of Statistics,
Journal of Machine Learning Research, NeurIPS, ICML, COLT, ALT, STOC.

TEACHING University of Southern California (2019-2022):

2022, Spring: Elementary Probability and Statistics (Math 208)	34 st. 3h/wk.
2021, Fall: Introduction to Mathematical Statistics (Math 541b)	10 st. 3h/wk.
2019–2021: Optimization for Machine Learning (invited lectures)	10 st. 2h/mth.

University of Grenoble (2016-2017, in French):

2017, Spring: Calculus for Science & Engineering (“Cours-TD”)	30 st. 3h/wk.
2016, Spring: Calculus for Science & Engineering (“Cours-TD”)	30 st. 3h/wk.
2016, Spring: Statistical Methods for Biology & Medicine (“TP”)	28 st. 3h/wk.

TALKS¹ 2022

INFORMS Optimization Society Conference (IOS 2022), Greenville	sc
Johns Hopkins University	j,z
University of Cambridge	j,z

2021

University of Washington, IFDS seminar	i,z
Johns Hopkins University, AMS seminar	i
Southern California Probability Symposium	i,z
Higher School of Economics, Moscow	i
Universitat Pompeu Fabra, Barcelona	j,z
University of Southern California	
École Polytechnique Fédérale de Lausanne	j,z
Weierstrass Institute, Berlin	i,z
Ecole Polytechnique, Paris (×2)	j,z

¹Legend: i – invited talk, z – via Zoom, p – poster presentation, j – job talk, sc – session chaired.

2019

University of Southern California, Epstein Seminar	
COLT 2019, Phoenix	
Optimization and Statistical Learning workshop, Les Houches	p
Toyota Technological Institute, Chicago	j

2018

ICML 2018, Stockholm	p
Optimization and Learning workshop, Toulouse	p
CWI-Inria workshop, Paris	
ICML 2018, Stockholm	
CWI seminar, Amsterdam	
Sierra seminar, Inria, Paris	
PhD defense, University of Grenoble	

2017 & before

Optimization Without Borders 2017, Les Houches	
NeurIPS 2016, Barcelona	p
Université Grenoble Alpes	
University of Göttingen	j
IRIT, Toulouse	j
ORFE seminar, Princeton	j
University of Washington, Seattle	
PGMO Days 2016, Paris	
COLT 2015, Paris	
StatLearn 2015, Grenoble	

HONORS & AWARDS

NeurIPS 2019 Best Reviewer (awarded to 400 reviewers out of 4500+)
COLT 2019 Travel Award
HDSI Postdoctoral Fellowship at UC San Diego, 2019–2021 (offered)
ERCIM Alain Bensoussan Postdoctoral Fellowship, 2018–2019
NVIDIA GPU Grant, 2017
NIPS 2016 Travel Award
Increased State Academic Scholarship of the Russian Government, 2012–2014
Abramov-Frolov Fund Scholarship, 2009–2011

SCIENTIFIC SCHOOLS

Structural Inference 2016, Brodten
GPU for Signal and Image Processing 2015, Grenoble
Machine Learning Summer School 2015, Kyoto
Khronos-Persyvact Spring School 2015, Grenoble
Microsoft School on Algorithms for Massive Data 2013, Moscow

LANGUAGES

English	Russian
• quasi-native level, 113/120 ToEFL	• native tongue
French	German
• fluent, 5 years of living in France	• B1, needs reactivation