

CONTACT INFORMATION	University of Southern California Viterbi School of Engineering 3740 McClintock Avenue Los Angeles, CA 90089 Email: dostrovs@usc.edu
WEBSITE	ostrodmith.github.io
GITHUB	github.com/ostrodmith
RESEARCH INTERESTS	<ul style="list-style-type: none"> • Statistical learning theory • Robust and adaptive estimation • Convex and non-convex optimization and minimax problems
CURRENT POSITION	Postdoctoral Scholar – Research Associate <i>Aug. 2019 – present</i> University of Southern California Host: Meisam Razaviyayn
PREVIOUS POSITIONS	ERCIM Alain Bensoussan Postdoctoral Fellow <i>Feb. 2018 – Jun. 2019</i> Inria (Paris) and CWI (Amsterdam) Hosts: Francis Bach, Peter Grünwald Visiting Student , Univ. of Washington <i>Dec. 2016 – May 2017</i> Host: Zaid Harchaoui
DEGREES	PhD, Université Grenoble Alpes <i>Oct. 2014 – Jan. 2018</i> <ul style="list-style-type: none"> • Thesis: <i>Adaptive Signal Recovery by Convex Optimization</i> Advisers: Anatoli Juditsky, Zaid Harchaoui, Laurent Desbat MSc, Moscow Institute of Physics and Technology <i>Sep. 2012 – Jul. 2014</i> <ul style="list-style-type: none"> • Thesis: <i>Concentration Inequalities for the Exponential Weighting Method</i> Adviser: Yuri Golubev BSc, Moscow Institute of Physics and Technology <i>Sep. 2008 – Jul. 2012</i> <ul style="list-style-type: none"> • Thesis: <i>Analytical Study of NHDP Link Management Protocol</i> Adviser: Andrey Lyakhov
PREPRINTS AND WORKING PAPERS	Near-Optimal Model Discrimination with Non-Disclosure D. Ostrovskii, M. Ndaoud, A. Javanmard, M. Razaviyayn. <i>arXiv:2012.02901, 2020</i> Efficient Primal-Dual Algorithms for Large-Scale Multiclass Classification D. Babichev, D. Ostrovskii, F. Bach. <i>arXiv:1902.03755, 2019</i> Adaptive Denoising of Signals with Shift-Invariant Structure D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski. <i>arXiv:1806.04028, 2018</i> Structure-Blind Deconvolution via Convex Optimization D. Ostrovskii, A. Juditsky. <i>Available upon request, 2018</i>

JOURNAL PAPERS	Efficient Search of First-Order Nash Equilibria in Nonconvex-Concave Smooth Min-Max Problems D. Ostrovskii, A. Lowy, M. Razaviyayn. <i>arXiv:2002.07919</i> , 2020 <i>SIAM Journal on Optimization</i> , in review (min. rev.)
	Finite-Sample Analysis of M-Estimators Using Self-Concordance D. Ostrovskii, F. Bach. <i>arXiv:1810.06838</i> , 2018 <i>Electronic Journal of Statistics</i> , 2020 (to appear)
	Concentration Inequalities for the Exponential Weighting Method Y. Golubev, D. Ostrovskii. <i>Mathematical Methods of Statistics</i> , 23:1, 2014, pp. 20-37
	A Dynamic Channel Reservation Method for Multimedia Streaming in Wi-Fi Mesh Networks A. Krasilov, A. Lyakhov, D. Ostrovskii, E. Khorov. <i>Automation and Remote Control</i> , 74:9, 2013, pp. 1460-1473
	Analytical Study of the Quality of Links Established by the Neighbourhood Discovery Protocol A. Lyakhov, D. Ostrovskii, E. Khorov. <i>Journal of Communications Technology and Electronics</i> , 57:12, 2012, pp. 1314-1321
REFEREED CONFERENCE PAPERS	Affine Invariant Covariance Estimation for Heavy-Tailed Distributions D. Ostrovskii, A. Rudi. <i>arXiv:1902.03086</i> , COLT 2019
	Beyond Least-Squares: Fast Rates for Regularized Empirical Risk Minimization through Self-Concordance U. Marteau-Ferey, D. Ostrovskii, A. Rudi, F. Bach. <i>arXiv:1902.03046</i> , COLT 2019
	Efficient First-Order Algorithms for Adaptive Signal Denoising D. Ostrovskii, Z. Harchaoui. <i>arXiv:1803.11262</i> , ICML 2018
	Structure-Blind Signal Recovery D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski. <i>arXiv:1607.05712</i> , NeurIPS 2016
	Adaptive Recovery of Signals by Convex Optimization Z. Harchaoui, A. Juditsky, A. Nemirovski, D. Ostrovskii. <i>hal:01250215</i> , COLT 2015
	Dynamic Resource Allocation for MCCA-Based Streaming in Wi-Fi Mesh Networks E. Khorov, A. Krasilov, A. Lyakhov, D. Ostrovskii. <i>WiFlex</i> 2013
	Analytical Study of Neighborhood Discovery and Link Management in OLSR E. Khorov, A. Kiryanov, A. Lyakhov, D. Ostrovskii <i>IFIP</i> 2012
SERVICE	<ul style="list-style-type: none"> • Journal reviewing: JMLR, Mathematical Programming • Conference reviewing: NeurIPS (in top reviewers), ICML, COLT, ALT • Workshop organized: Khronos-Persyvact Spring School 2015, Grenoble
TEACHING	<ul style="list-style-type: none"> • 2019–2020: Invited lectures, Optimization for Machine Learning class USC • 2015–2017: Calculus for science & engineering (French) Univ. Grenoble Alpes • 2015–2016: Statistical methods in biology (French) Univ. Grenoble Alpes

TALKS	<p>2021</p> <ul style="list-style-type: none"> • University of Southern California Ecole Polytechnique Federale de Lausanne Weierstrass Institute, Berlin <i>Near-Optimal Model Discrimination with Non-Disclosure</i> <p>2019</p> <ul style="list-style-type: none"> • University of Southern California, Epstein Seminar <i>On Fast Rates in Empirical Risk Minimization Beyond Least-Squares</i> • COLT 2019, Phoenix Optimization and Statistical Learning workshop, Les Houches (poster) <i>Affine Invariant Covariance Estimation for Heavy-Tailed Distributions</i> • Toyota Technological Institute, Chicago <i>Algorithmic Efficiency and Statistical Optimality in Empirical Risk Minimization</i> <p>2018</p> <ul style="list-style-type: none"> • ICML 2018, Stockholm (poster) Optimization and Learning workshop, Toulouse (poster) CWI-Inria Workshop, Paris <i>Finite-Sample Analysis of M-Estimators Using Self-Concordance</i> • ICML 2018, Stockholm <i>Efficient First-Order Algorithms for Adaptive Signal Denoising</i> • CWI seminar, Amsterdam SIERRA Team seminar, INRIA, Paris PhD Thesis Defense, Univ. Grenoble Alpes <i>Adaptive Signal Recovery by Convex Optimization</i> <p>2015–2017</p> <ul style="list-style-type: none"> • NeurIPS 2016, Barcelona (poster) <i>Structure-Blind Signal Recovery</i> • Université Grenoble Alpes University of Göttingen IRIT, Toulouse ORFE, Princeton University of Washington, Seattle PGMO Days 2016, Paris COLT 2015, Paris <i>Adaptive Signal Denoising by Convex Optimization</i>
SCIENTIFIC SCHOOLS	<p>Structural Inference 2016, Brodten GPU for Signal and Image Processing 2015, Grenoble Machine Learning Summer School 2015, Kyoto Khronos-Persyvaact Spring School at <i>Statlearn</i> 2015 workshop, Grenoble Microsoft School on Algorithms for Massive Data 2013, Moscow</p>
HONORS	<p>NeurIPS 2019 Free Registration (awarded to 400 highest-scoring reviewers) COLT 2019 Travel Award HDSI Postdoctoral Fellowship at UC San Diego, 2019–2021 (declined) ERCIM Alain Bensoussan Postdoctoral Fellowship, 2018–2019 (completed) NIPS 2016 Travel Award</p>

Increased State Academic Scholarship of the Russian Government, 2012–2014
Abramov-Frolov Fund Scholarship, 2009–2011

OTHER ACTIVITIES Mathematical blog: <https://ostrodmit.github.io/blog>

LANGUAGE SKILLS	English (proficient)	Russian (native)
	French (fluent)	German (basic)