

CONTACT INFORMATION	University of Southern California Viterbi School of Engineering 3740 McClintock Avenue Los Angeles, CA 90089 Email: <a href="mailto:dostrovs@usc.edu">dostrovs@usc.edu</a>	
WEBSITE	<a href="http://ostrodmit.github.io">ostrodmit.github.io</a>	
RESEARCH INTERESTS	<ul style="list-style-type: none"> <li>• Statistical learning theory</li> <li>• Robust and adaptive estimation</li> <li>• Convex and non-convex optimization and minimax problems</li> </ul>	
CURRENT POSITION	<b>Postdoctoral Scholar – Research Associate</b> University of Southern California Host: Meisam Razaviyayn	<i>Aug. 2019 – present</i>
PREVIOUS POSITIONS	<b>ERCIM Alain Bensoussan Postdoctoral Fellow</b> Inria (Paris) and CWI (Amsterdam) Hosts: Francis Bach, Peter Grünwald	<i>Feb. 2018 – Jun. 2019</i>
	<b>Visiting Student</b> , Univ. of Washington Host: Zaid Harchaoui	<i>Dec. 2016 – May 2017</i>
DEGREES	<b>PhD, Université Grenoble Alpes</b> <ul style="list-style-type: none"> <li>• Thesis: <i>Adaptive Signal Recovery by Convex Optimization</i></li> <li>Advisers: Anatoli Juditsky, Zaid Harchaoui, Laurent Desbat</li> </ul> <b>MSc, Moscow Institute of Physics and Technology</b> <ul style="list-style-type: none"> <li>• Thesis: <i>Concentration Inequalities for the Exponential Weighting Method</i></li> <li>Adviser: Yuri Golubev</li> </ul> <b>BSc, Moscow Institute of Physics and Technology</b> <ul style="list-style-type: none"> <li>• Thesis: <i>Analytical Study of NHDP Link Management Protocol</i></li> <li>Adviser: Andrey Lyakhov</li> </ul>	<i>Oct. 2014 – Jan. 2018</i>  <i>Sep. 2012 – Jul. 2014</i>  <i>Sep. 2008 – Jul. 2012</i>
PREPRINTS AND WORKING PAPERS	<i>Do Your Training Data Violate My Privacy?</i> Near-Optimal Model Discrimination with Privacy Awareness D. Ostrovskii, M. Ndaoud, A. Javanmard, M. Razaviyayn. <i>Available upon request, 2020</i>  Efficient Search of First-Order Nash Equilibria in Nonconvex-Concave Smooth Min-Max Problems D. Ostrovskii, A. Lowy, M. Razaviyayn. <i>arXiv:2002.07919, 2020</i> <i>SIAM Journal on Optimization</i> , in review (min. rev.)  Efficient Primal-Dual Algorithms for Large-Scale Multiclass Classification D. Babichev, D. Ostrovskii, F. Bach. <i>arXiv:1902.03755, 2019</i>	

	<p>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>, in review (min. rev.)</p> <p>Adaptive Denoising of Signals with Shift-Invariant Structure  D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski. <i>arXiv:1806.04028</i>, 2018</p> <p>Structure-Blind Deconvolution via Convex Optimization  D. Ostrovskii, A. Juditsky. <i>Available upon request</i>, 2018</p>
CONFERENCE PUBLICATIONS	<p>Affine Invariant Covariance Estimation for Heavy-Tailed Distributions  D. Ostrovskii, A. Rudi. <i>arXiv:1902.03086</i>, COLT 2019</p> <p>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</p> <p>Efficient First-Order Algorithms for Adaptive Signal Denoising  D. Ostrovskii, Z. Harchaoui. <i>arXiv:1803.11262</i>, ICML 2018</p> <p>Structure-Blind Signal Recovery  D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski. <i>arXiv:1607.05712</i>, NeurIPS 2016</p> <p>Adaptive Recovery of Signals by Convex Optimization  Z. Harchaoui, A. Juditsky, A. Nemirovski, D. Ostrovskii. <i>hal:01250215</i>, COLT 2015</p> <p>Dynamic Resource Allocation for MCCA-Based Streaming in Wi-Fi Mesh Networks  E. Khorov, A. Krasilov, A. Lyakhov, D. Ostrovskii. <i>WiFlex</i> 2013</p> <p>Analytical Study of Neighborhood Discovery and Link Management in OLSR  E. Khorov, A. Kiryanov, A. Lyakhov, D. Ostrovskii <i>IFIP</i> 2012</p>
JOURNAL PUBLICATIONS	<p>Concentration Inequalities for the Exponential Weighting Method  Y. Golubev, D. Ostrovskii. <i>Mathematical Methods of Statistics</i>, 23:1, 2014, pp. 20-37</p> <p>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</p> <p>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</p>
SERVICE	<ul style="list-style-type: none"> <li>• <b>Journal reviewing:</b> JMLR, Mathematical Programming</li> <li>• <b>Conference reviewing:</b> NeurIPS (in top reviewers), ICML, COLT, ALT</li> <li>• <b>Workshop organized:</b> Khronos-Persyvact Spring School 2015, Grenoble</li> </ul>
TEACHING	<ul style="list-style-type: none"> <li>• 2019–2020: Invited lectures, Optimization for Machine Learning class USC</li> <li>• 2015–2017: Calculus for science &amp; engineering (French) Univ. Grenoble Alpes</li> <li>• 2015–2016: Statistical methods in biology (French) Univ. Grenoble Alpes</li> </ul>

TALKS	<p>2019</p> <ul style="list-style-type: none"> <li>• University of Southern California, Epstein Seminar <i>On Fast Rates in Empirical Risk Minimization Beyond Least-Squares</i></li> <li>• COLT 2019, Phoenix Optimization and Statistical Learning workshop, Les Houches (<b>poster</b>) <i>Affine Invariant Covariance Estimation for Heavy-Tailed Distributions</i></li> <li>• Toyota Technological Institute at Chicago <i>Algorithmic Efficiency and Statistical Optimality in Empirical Risk Minimization</i></li> </ul> <p>2018</p> <ul style="list-style-type: none"> <li>• ICML 2018, Stockholm (<b>poster</b>) Optimization and Learning workshop, Toulouse (<b>poster</b>) CWI-Inria Workshop, Paris <i>Finite-Sample Analysis of M-Estimators Using Self-Concordance</i></li> <li>• ICML 2018, Stockholm <i>Efficient First-Order Algorithms for Adaptive Signal Denoising</i></li> <li>• CWI seminar, Amsterdam SIERRA Team seminar, INRIA, Paris PhD Thesis Defense, Univ. Grenoble Alpes <i>Adaptive Signal Recovery by Convex Optimization</i></li> </ul> <p>2015–2017</p> <ul style="list-style-type: none"> <li>• NeurIPS 2016, Barcelona (<b>poster</b>) <i>Structure-Blind Signal Recovery</i></li> <li>• Univ. Grenoble Alpes IMS, 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></li> </ul>
SCIENTIFIC SCHOOLS	<p>Structural Inference 2016, Brodten</p> <p>GPU for Signal and Image Processing 2015, Grenoble</p> <p>Machine Learning Summer School 2015, Kyoto</p> <p>Khronos-Persyvact Spring School at <i>Statlearn</i> 2015 workshop, Grenoble</p> <p>Microsoft School on Algorithms for Massive Data 2013, Moscow</p>
HONORS	<p>NeurIPS 2019 Free Registration (awarded to 400 highest-scoring reviewers)</p> <p>COLT 2019 Travel Award</p> <p>HDSI Postdoctoral Fellowship at UC San Diego, 2019–2021 (declined)</p> <p>ERCIM Alain Bensoussan Postdoctoral Fellowship, 2018–2019 (completed)</p> <p>NIPS 2016 Travel Award</p> <p>Increased State Academic Scholarship of the Russian Government, 2012–2014</p> <p>Abramov-Frolov Fund Scholarship, 2009–2011</p>
OTHER ACTIVITIES	<p>Mathematical blog: <a href="https://ostrodmit.github.io/blog">https://ostrodmit.github.io/blog</a></p>
LANGUAGE SKILLS	<p>English (proficient)</p> <p>French (fluent)</p> <p>Russian (native)</p> <p>German (basic)</p>