

CONTACT INFORMATION	INRIA - SIERRA project-team 2 rue Simone Iff 75012 Paris dmitrii.ostrovskii@inria.fr
WEBSITE	ostrodmit.github.io
CURRENT POSITION	<b>ERCIM Alain Bensoussan Postdoctoral Fellow</b> <i>Feb. 2018 – present</i> Host institution: INRIA Paris Hosts: Francis Bach (INRIA Paris), Peter Grünwald (CWI Amsterdam)
RESEARCH INTERESTS	<ul style="list-style-type: none"> <li>• Statistical learning theory</li> <li>• Robust estimation</li> <li>• Convex optimization</li> <li>• Statistical signal processing</li> </ul>
DEGREES	<p><b>PhD, Université Grenoble Alpes</b> <i>Oct. 2014 – Jan. 2018</i></p> <ul style="list-style-type: none"> <li>• Thesis: <i>Adaptive Signal Recovery by Convex Optimization</i> Advisers: Anatoli Juditsky, Zaid Harchaoui, Laurent Desbat</li> </ul> <p><b>MSc, Moscow Institute of Physics and Technology</b> <i>Sep. 2012 – Jul. 2014</i></p> <ul style="list-style-type: none"> <li>• Thesis: <i>Concentration Inequalities for the Exponential Weighting Method</i> Adviser: Yuri Golubev</li> </ul> <p><b>BSc, Moscow Institute of Physics and Technology</b> <i>Sep. 2008 – Jul. 2012</i></p> <ul style="list-style-type: none"> <li>• Thesis: <i>Analytical Study of NHDP Link Management Protocol</i> Adviser: Andrey Lyakhov</li> </ul>
PREPRINTS	<p><b>Efficient Primal-Dual Algorithms for Large-Scale Multiclass Classification</b> D. Babichev, D. Ostrovskii, F. Bach (equal contribution of the first two authors) <i>Submitted 2019, arXiv:1902.03755</i></p> <p><b>Finite-Sample Analysis of M-Estimators using Self-Concordance</b> D. Ostrovskii, F. Bach <i>Submitted 2018, arXiv:1810.06838</i></p> <p><b>Adaptive Denoising of Signals with Shift-Invariant Structure</b> D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski <i>Submitted 2018, arXiv:1806.04028</i></p> <p><b>Adaptive Deconvolution by Convex Optimization</b> D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski <i>In preparation 2018, available upon request</i></p>
CONFERENCE PUBLICATIONS	<p><b>Affine Invariant Covariance Estimation for Heavy-Tailed Distributions</b> D. Ostrovskii, A. Rudi <i>COLT 2019, arXiv:1902.03086</i></p>

**Beyond Least-Squares: Fast Rates for Regularized Empirical Risk Minimization through Self-Concordance**

U. Marteau-Ferey, D. Ostrovskii, A. Rudi, F. Bach  
*COLT 2019, arXiv:1902.03046*

**Efficient First-Order Algorithms for Adaptive Signal Denoising**

D. Ostrovskii, Z. Harchaoui  
*ICML 2018, arXiv:1803.11262*

**Structure-Blind Signal Recovery**

D. Ostrovskii, Z. Harchaoui, A. Juditsky, A. Nemirovski  
*NIPS 2016, arXiv:1607.05712*

**Adaptive Recovery of Signals by Convex Optimization**

Z. Harchaoui, A. Juditsky, A. Nemirovski, D. Ostrovskii  
*COLT 2015, hal:01250215*

**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, and D. Ostrovskii  
*IFIP 2012*

JOURNAL  
PUBLICATIONS

**Concentration Inequalities for the Exponential Weighting Method**

Y. Golubev and D. Ostrovskii  
*Mathematical Methods of Statistics, vol. 23, no. 1, pp. 20-37, 2014*

**A Dynamic Channel Reservation Method for Multimedia Streaming in Wi-Fi Mesh Networks**

A. Krasilov, A. Lyakhov, D. Ostrovskii, and E. Khorov  
*Automation and Remote Control, vol. 74, no. 9, pp. 1460-1473, 2013*

**Analytical Study of the Quality of Links Established by the Neighbourhood Discovery Protocol**

A. Lyakhov, D. Ostrovskii, and E. Khorov  
*Journal of Communications Technology and Electronics, vol. 57, no. 12, pp. 1314-1321, 2012*

RESEARCH  
EXPERIENCE

Visting Researcher, University of Washington

*Dec. 2016 – May 2017*

Efficient Algorithms for Large-Scale and Robust Supervised Learning  
Hosted by Zaid Harchaoui

Research Intern

INRIA Grenoble, 2014

Research Assistant

Institute for Information Transmission Problems, 2011-2013

SERVICE	Reviewer:
	COLT 2016, NIPS 2016, ICML 2017, ALT 2018, NIPS 2018, NIPS 2019, COLT 2019
	Organization
	Khronos-Persyvact Spring School 2015, Grenoble
TEACHING	2015 – 2017
	<i>Calculus for science and engineering (in French)</i> Univ. Grenoble Alpes
	2015 – 2016
	<i>Statistical methods in biology (in French)</i> Univ. Grenoble Alpes
TALKS	2019
	Toyota Technological Institute at Chicago <i>On Algorithmic Efficiency and Statistical Optimality in Empirical Risk Minimization</i>
	2018
	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 <i>Adaptive Signal Recovery by Convex Optimization</i>
	SIERRA Team seminar, INRIA, Paris
	PhD Defense, Université Grenoble Alpes
	2017
	Université Grenoble Alpes <i>Adaptive Signal Denoising by Convex Optimization</i>
	IMS, University of Göttingen
	IRIT, Toulouse
	ORFE, Princeton
	University of Washington, Seattle
	2016
	PGMO Days 2016, Palaiseau
	2015
	COLT 2015, Paris
	StatLearn 2015, Grenoble

POSTER SESSIONS	2019	Optimization and Statistical Learning workshop, Les Houches <i>Affine Invariant Covariance Estimation for Heavy-Tailed Distributions</i>
	2018	Optimization and Learning workshop, Toulouse <i>Nonasymptotic Analysis of M-estimators via Self-Concordance</i> ICML 2018, Stockholm
	2017	Optimization without Borders, Les Houches
	2016	NIPS 2016, Barcelona <i>Structure-Blind Signal Recovery</i>
	2015	Statlearn 2015, Grenoble <i>Near-optimal pointwise denoising by convex optimization</i>
SCIENTIFIC SCHOOLS		Structural Inference 2016, Brodten GPU for Signal and Image Processing 2015, Grenoble Machine Learning Summer School 2015, Kyoto Khronos-Persyvact Spring School at <i>Statlearn</i> 2015 workshop, Grenoble Microsoft School on Algorithms for Massive Data 2013, Moscow
HONORS		HDSI Podtdoctoral Fellowship at UC San Diego, 2019–2021 (declined) ERCIM Alain Bensoussan Postdoctoral Fellowship, 2018–2019 (completed) NIPS 2016 Travel Grant Increased State Academic Scholarship of the Russian Government, 2012–2014 Abramov-Frolov Fund Scholarship, 2009–2011
OTHER ACTIVITIES		Mathematical blog: <a href="https://ostrodmit.github.io/blog">https://ostrodmit.github.io/blog</a>
LANGUAGE SKILLS		English (proficient)                      Russian (native) French (fluent)                              German (basic)