

Contact information

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Research interests

Randomized Numerical Linear Algebra, Mathematics of Data, Stochastic Optimization, High-dimensional Probability

Academic employment

2026–present **University of Oxford, Oxford, UK**
 Associate Professor, Mathematical Institute
 Senior Research Fellow, New College

2021–2026 **Princeton University, Princeton, NJ**
 Tenure-track Assistant Professor
 Department of Operations Research and Financial Engineering
 Affiliated with the Program in Applied and Computational Mathematics (PACM) and the Center for Statistics and Machine Learning (CSML)

2021 **Lawrence Berkeley National Laboratory, Berkeley, CA**
 Tensor Factorization in Machine Learning Postdoctoral Scholar
 Computational Research Division

2018–2020 **University of California, Los Angeles, CA**
 Assistant Adjunct Professor
 Postdoc at the Department of Mathematics
 Mentors *Deanna Needell, Terence Tao*

Education

2013–2018 **University of Michigan, Ann Arbor**
 Ph.D. in Mathematics, conferral date 20.08.2018
 Thesis *Spectral properties of heavy-tailed random matrices*
 Advisor *Roman Vershynin*

2007–2012 **Lomonosov Moscow State University**
 Specialist degree in Mathematics (B.S.+M.S. equivalent)
 Diploma with honors
 Master's thesis *Sobolev classes on infinite dimensional spaces*
 Advisor *Vladimir I. Bogachev*

2011–2012 **Yandex School of Data Analysis, Moscow**
 M.S. equivalent in Computer Science

Other related experience

2020 **University of California, Los Angeles**
 CAM UCLA REU Academic Mentor

2017 **Lawrence Berkeley National Laboratory, Berkeley, CA**
 Graduate Student Intern
 Computational Research Division, Scalable Solvers Group;
 Mentor *Xiaoye Sherry Li*

Publications and preprints

Preprints

- (5) J. Haddock, A. Ma, E. Rebrova,
Quantile-based loss filtering for outlier-robust stochastic gradient descent,
Preprint, arXiv:2609.13040 (2026)
- (4) X. Du, E. Rebrova, M. Dereziński, S. Na,
Inference for Newton methods with accelerated sketch-and-project via random scaling,
Preprint, arXiv:2609.12421 (2026)
- (3) M. Dereziński, Y. Nakatsukasa, E. Rebrova,
Towards universal convergence of backward error in linear system solvers,
Preprint, arXiv:2604.16075 (2026)
- (2) T. Anderson, M. Collins, J. Haddock, J. Lok, E. Rebrova,
Beyond expectation: concentration inequalities for randomized iterative methods,
Preprint, arXiv:2511.20877 (2025)
- (1) R. Sonthalia, J. Lok, E. Rebrova,
On regularization via early stopping for least squares regression,
Preprint, arXiv:2406.04425 (2024)

Journal articles

- (22) S. Suryanarayanan, E. Rebrova,
On trimming tensor-structured measurements and efficient low-rank tensor recovery,
Linear Algebra and its Applications, **750**, 163–204 (2026)
- (21) J. Lok, E. Rebrova,
Subspace-constrained randomized coordinate descent for linear systems with good low-rank matrix approximations,
SIAM Journal on Matrix Analysis and Applications, **47**(3), 1495–1529 (2026)
- (20) A. Chaudhry, E. Rebrova,
Learning nonnegative matrix factorizations from compressed data,
SIAM Journal on Matrix Analysis and Applications, **47**(3), 1277–1303 (2026)
- (19) T. Bertalan, G. A. Kevrekidis, E. D. Koronaki, S. Mishra, E. Rebrova, I. G. Kevrekidis,
Data-driven, ML-assisted approaches to problem well-posedness,
PNAS Nexus, **5**(6), pgag175 (2026)
- (18) C. A. Haselby, M. A. Iwen, D. Needell, E. Rebrova, W. Swartworth,
Fast and low-memory compressive sensing algorithms for low Tucker-rank tensor approximation from streamed measurements,
Numerical Algorithms, **101**, 2567–2629 (2026)
- (17) M. Dereziński, D. Needell, E. Rebrova, J. Yang,
Randomized Kaczmarz methods with beyond-Krylov convergence,
SIAM Journal on Matrix Analysis and Applications, **46**(4), 2558–2588 (2025)
- (16) M. Dereziński, D. LeJeune, D. Needell, E. Rebrova,
Fine-grained analysis and faster algorithms for iteratively solving linear systems,
Journal of Machine Learning Research, **26**(144), 1–49 (2025)
- (15) H. Jeong, D. Needell, E. Rebrova,
Stochastic gradient descent for streaming linear and rectified linear systems with adversarial corruptions,
SIAM Journal on Mathematics of Data Science, **7**(2), 516–541 (2025)

- (14) L. Kassab, A. Kryshchenko, H. Lyu, D. Molitor, D. Needell, E. Rebrova, J. Yuan,
Sparseness-constrained nonnegative tensor factorization for detecting topics at different time scales, **Frontiers in Applied Mathematics and Statistics**, **10**, 1287074 (2024)
- (13) J. Lok, E. Rebrova,
A subspace constrained randomized Kaczmarz method for structure or external knowledge exploitation, **Linear Algebra and its Applications**, **698**, 220–260 (2024)
- (12) M. Dereziński, E. Rebrova,
Sharp analysis of sketch-and-project methods via a connection to randomized singular value decomposition, **SIAM Journal on Mathematics of Data Science**, **6**(1), 127–153 (2024)
- (11) C. A. Haselby, M. A. Iwen, D. Needell, M. Perlmutter, E. Rebrova,
Modewise operators, the tensor restricted isometry property, and low-rank tensor recovery, **Applied and Computational Harmonic Analysis**, **66**, 161–192 (2023)
- (10) L. Cheng, B. Jarman, D. Needell, E. Rebrova,
On block accelerations of quantile randomized Kaczmarz for corrupted systems of linear equations, **Inverse Problems**, **39**(2), 024002 (2023)
- (9) J. Haddock, D. Needell, E. Rebrova, W. Swartworth,
Quantile-based iterative methods for corrupted systems of linear equations, **SIAM Journal on Matrix Analysis and Applications**, **43**(2), 605–637 (2022)
- (8) M. A. Iwen, D. Needell, E. Rebrova, A. Zare,
Lower memory oblivious (tensor) subspace embeddings with fewer random bits: modewise methods for least squares, **SIAM Journal on Matrix Analysis and Applications**, **42**(1), 376–416 (2021)
- (7) E. Rebrova, D. Needell,
On block Gaussian sketching for the Kaczmarz method, **Numerical Algorithms**, **86**(1), 443–473 (2021)
- (6) E. Rebrova,
Constructive regularization of the random matrix norm, **Journal of Theoretical Probability**, **33**(3), 1768–1790 (2020)
- (5) Y. Liu, W. Sid-Lakhdar, E. Rebrova, P. Ghysels, X. S. Li,
A parallel hierarchical blocked adaptive cross approximation algorithm, **The International Journal of High Performance Computing Applications**, **34**(4), 394–408 (2020)
- (4) E. Rebrova, R. Vershynin,
Norms of random matrices: local and global problems, **Advances in Mathematics**, **324**, 40–83 (2018)
- (3) E. Rebrova, K. Tikhomirov,
Coverings of random ellipsoids, and invertibility of matrices with i.i.d. heavy-tailed entries, **Israel Journal of Mathematics**, **227**(2), 507–544 (2018)
- (2) V. I. Bogachev, A. Yu. Pilipenko, E. Rebrova,
Classes of functions of bounded variation on infinite-dimensional domains, **Doklady Mathematics**, **88**(1), 391–395 (2013)
- (1) V. I. Bogachev, E. Rebrova,
Functions of bounded variation on infinite-dimensional spaces with measures, **Doklady Mathematics**, **87**(2), 144–147 (2013)

Conference publications

- (11) S. Shvaiko, L. Huang, E. Rebrova,
Quantile randomized Kaczmarz algorithm with whitelist trust mechanism,
Proc. IEEE International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**), 721–725 (2026)
- (10) J. Lok, R. Sonthalia, E. Rebrova,
Error dynamics of mini-batch gradient descent with random reshuffling for least squares regression,
Proc. 36th International Conference on Algorithmic Learning Theory (**ALT**), **PMLR 272**, 736–770 (2025)
- (9) J. Haddock, A. Ma, E. Rebrova,
On subsampled quantile randomized Kaczmarz, Proc. 59th Annual **Allerton** Conference on Communication, Control, and Computing (2023)
- (8) E. Rebrova, P. Salanevich,
On graph uncertainty principle and eigenvector delocalization,
IEEE **SAMPTA** Sampling Theory and Applications Conference (2023)
- (7) J. Vendrow, J. Haddock, E. Rebrova, D. Needell,
On a guided nonnegative matrix factorization, Proc. IEEE **ICASSP** (2021)
- (6) R. Grotheer, L. Huang, Y. Huang, A. Kryshchenko, O. Kryshchenko, P. Li, X. Li, E. Rebrova, K. Ha, D. Needell,
COVID-19 literature topic-based search via hierarchical NMF, Proc. **NLP-COVID19-EMNLP** (2020)
- (5) J. Haddock, D. Needell, E. Rebrova, W. Swartworth,
Stochastic gradient descent methods for corrupted systems of linear equations,
Proc. **CISS** (2020)
- (4) G. Chávez, Y. Liu, P. Ghysels, X. S. Li, E. Rebrova,
Scalable and memory-efficient kernel ridge regression, Proc. 34th IEEE **IPDPS**, 956–965 (2020)
- (3) E. Rebrova, D. Needell,
Sketching for Motzkin’s iterative method for linear systems, Proc. 53rd IEEE **Asilomar SS&C**, 271–275 (2019)
- (2) E. Rebrova, D. Needell,
New bounds for the block Gaussian sketch and project method, Proc. **ITA** (2019)
- (1) E. Rebrova, G. Chávez, Y. Liu, P. Ghysels, X. S. Li,
A study of clustering techniques and hierarchical matrix formats for kernel ridge regression, 32nd IEEE **IPDPS Workshops (ParLearning)**, 883–892 (2018)

Surveys

(2) M. F. Serret, A. Cortinovis, Y. Dong, D. Halikias, A. Ma, F. Matti, D. Needell, K. J. Pearce, E. Rebrova, D. Shur, R. Smith, H.-X. Wang, L. Grigori, *Attention mechanisms through the lens of numerical methods: approximation methods and alternative formulations*, Preprint, arXiv:2604.01757 (2026)

(1) V. Patel, D. A. Maldonado, M. Melnichenko, N. Pritchard, V. Rao, E. Rebrova, S. Sankararaman, M. Schweitzer, *Scientific applications leveraging randomized linear algebra*, Preprint, arXiv:2506.16457 (2025)

Supervised research

(1) R. Budahazy, L. Cheng, Y. Huang, A. Johnson, P. Li, J. Vendrow, Z. Wu, *Analysis of legal documents via non-negative matrix factorization methods*, **SIAM Undergraduate Research Online**, **15**, 324–340 (2022).
Project advisors: D. Molitor, E. Rebrova, D. Needell.

Ph.D. thesis

(1) E. Rebrova, *Spectral properties of heavy-tailed random matrices*, **University of Michigan** (2018)

Fellowships, grants, awards

2023–2026	NSF DMS-2309685, PI. “Outliers are not what they seem: data-aware, flexible, and robust randomized iterative methods”
2021–2024	NSF DMS-2108479, Co-PI. “Fast, Low-Memory Embeddings for Tensor Data with Applications” (PI: Deanna Needell; collaborative partner: Mark Iwen)
2018–2020	Capital Fund Management sponsored postdoc grant, UCLA
2018	Allen Shields Memorial Fellowship, University of Michigan
2017	NSF ORISE scholarship for summer research internship at LBNL
2017	Rackham One-Term Dissertation Fellowship, University of Michigan
2012	RFFI 10-01-00518, research grant, Russia

Advising and mentoring

Ph.D. advising	• Current: Sofia Shvaiko (qualifying exam passed in 2024). • Graduated: Jackie Lok (Ph.D. 2026). • Graduated: Shambhavi Suryanarayanan (Ph.D. 2026). • Graduated: Abraar Chaudhry (Ph.D. 2024), co-advised with A. A. Ahmadi.
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Master’s thesis Nicolo Grometto (2023), thesis titled “Essays on Random Matrices”.

Mentoring	2021–2026 Advising undergraduate senior thesis students at Princeton ORFE program Two-semester independent research projects on a variety of topics related to data analysis (time series analysis, topic modeling, network analysis, and a variety of machine learning methods) – <i>Kaustuv Mukherjee</i>; thesis on graph neural networks applied to traffic modelling; – <i>Ethan Hsu</i>; thesis on backward error of least-squares solvers; – <i>Dominic Riendeau-Krause</i>; thesis “Opinion Dynamics in Digital Networks: Integrating Bounded Confidence and Expressed Private Opinion Models”, 2024–2025
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- *Sheetal Bangalore*; thesis “Assessing the Effectiveness and Disruption Resilience of the Grand Paris Express”, 2024–2025;
- *Annika Kelly*; thesis “Empirically Bridging Approaches to Latent Class Regression Problems”, 2023–2024
- *Cecilia Quirk*; thesis “Networks analysis approach to emotions exchange in Twitter”, 2023–2024
- *Landon Chin*; thesis “Quantifying NFL head coach value”
- *Robert Rubin*; thesis “Using Expected Goals to Forecast the English Premier League” (statistical modeling and machine learning), 2022–2023
award: Sigma Xi Book Award
- *Tiffany Huang*; thesis “A Random Walk Approach to Quantifying Racial Segregation and Food Access in Atlanta, Georgia” (network analysis and machine learning), 2022–2023
- *Simran Chopra*; “In Search of the Recipe for Hit Songs: Predicting Hit Songs Using Machine Learning” (machine learning), 2022–2023
- *Edwina Xiong*; “Foreign Relations and the Dollar: Quantifying Geopolitical Risks and Their Effects on Monetary Policy” (time series analysis and machine learning), 2021–2022
- *Antonio Simental*; thesis “Getting Real about Real Estate: A Machine Learning Categorization Model” (topic modeling and machine learning), 2021–2022
- *Eric Chen*; thesis “A Framework for Environmental Policy Social Analysis: Quantifying Social Impact Through Guided and Unguided Data Analyses” (topic modeling and machine learning), 2021–2022

- Independent work **Undergraduate independent work supervision**
(2022–2023) CSML student Marko Medvedev, report “Towards using Non-negative Matrix Factorization methods to measure the impact of Twitter on stock movement”
(2024–2025) PACM certificate student Laya Reddy: graph signal processing on genomic data
- 2020 **Mentoring five undergraduate students in CAM UCLA REU program**
topic modeling on text data for California Innocence Project (CIP)
PI Deanna Needell, assistant mentor Denali Molitor
- 2020 **Co-leading three student projects** for the UCLA Math 290J class
(1) topic-based search for COVID-19 related scientific literature
(2) topic modeling for COVID-19 related Twitter data
(3) studying the influence of demographic factors on the spread of COVID-19
- 2019–2023 **Co-mentored Ph.D. students at UCLA** (Will Swartworth, Ben Jarman; both graduated in 2023), scientific advisor Deanna Needell

Service and leadership

- Editorial work **Associate Editor**, Information and Inference: A Journal of the IMA.
- Leadership 2026 Co-organized the Numerical Linear Algebra workshop at FoCM 2026 Foundations of Computational Mathematics, Vienna, Austria, 16–18 July; with Vanni Noferini and Françoise Tisseur.
- 2025 **Organized a minisymposium at SIAM Annual Meeting**
“Advances in randomized numerical linear algebra”
(with Michał Dereziński, 8 invited speakers)
- 2024 **Organized a section at SIAM MDS conference**
“Efficient and robust optimization techniques for structured data learning” (with Longxiu Huang, 4 invited speakers)

- 2024 **Organized a section at SIAM Conference on Applied Linear Algebra (LA24)**
 “Stochastic Iterative Methods for Mathematical Data Science” (with Anna Ma, 8 invited speakers)
- 2024 **Organized a section at CISS workshop**
 “Robust Algorithms for Complex Data” (4 invited speakers)
- 2021, 2023 **Member of Organizing Committee, Princeton Day of Statistics**
- 2023 **Organized a section at SAMPTA conference**
 “Randomized algorithms for complex data”
- 2022 **Co-organized 2 sections at ICCOPT conference**
 “Tensor Modeling and Optimization” and “Randomized Iterative Methods beyond Least-squares”, co-organizer Jamie Haddock
- 2022 **Member of Organizing Committee**
 Women in Math program in Mathematical Data Science at Princeton IAS, Application review panel
- 2018–2019 **Co-organizing Reading Random Matrices Seminar**
 University of California, Los Angeles, CA
 faculty contact Terence Tao, co-organizer Palina Salanevich
- 2015–2016 **Co-organizing Student Analysis seminar**
 University of Michigan, Ann Arbor, MI
 co-organizer Siddhant Agrawal
- 2007–2012 **Member of Organizing Committee**
 Mathematical and Linguistics Olympiads for high school students
 Moscow, Russia
- Reviewing Mathematical Reviews (AMS) reviewer (2020–present)
- NSF panels National Science Foundation panelist: 2021, 2022, 2025, 2026
- Reviewing** for the journals
- Calcolo
 - Foundations of Computational Mathematics
 - SIAM Journal on Matrix Analysis and Applications
 - SIAM Journal on Scientific Computing
 - SIAM Journal on Imaging Sciences
 - SIAM Journal on Optimization
 - Linear Algebra and its Applications
 - BIT Numerical Mathematics
 - Numerical Algorithms
 - Numerical Linear Algebra with Applications
 - Proceedings of the AMS
 - Journal of Machine Learning Research
 - Mathematics of Computation
 - Neurocomputing
 - Applied Mathematics and Computation
 - Information and Inference: A Journal of the IMA
 - Journal of Computational and Applied Mathematics
 - Bernoulli
 - iScience
 - Sampling Theory, Signal Processing, and Data Analysis
 - Journal of Global Optimization
 - Numerische Mathematik
- Conferences: ICALP, SAMPTA.

Teaching experience

2022–2026	Assistant Professor , ORFE, Princeton University • ORF526: Probability and Stochastic Processes (graduate course) • ORF523: Convex and Conic Optimization (graduate course) • ORF387: Networks
2018–2020	Assistant Adjunct Professor , University of California, Los Angeles • Probability I: Fall 2018 and Spring 2020 (restructured for Math majors) • Statistics: Winter 2019, Spring 2019, Winter 2020 • Stochastic Processes: Spring 2020 • Optimization: Fall 2020
2014–2017	Graduate Student Instructor , University of Michigan, Ann Arbor • Calculus I: Fall 2014 (Teacher role in an IBL classroom) • Differential Equations: Winter 2015, Winter 2016, Fall 2016 (Teaching assistant role, including discussion sessions and labs) • Computational Finance: Fall 2017 (Teaching assistant role)
2017	Machine learning instructor , Lawrence Berkeley National Lab, Berkeley • Led 16-session review of the classical machine learning methods
2013–2014	Instructor in Math Lab, University of Michigan, Ann Arbor • One-on-one tutoring on all first level undergraduate math classes
2012–2013	Algebra instructor , Kolmogorov math and physics high school, Moscow, Russia • Teaching assistant role, including some lecturing and guiding solving algebra problems in class one-on-one with the students
2008–2012	Calculus instructor , Moscow State School 57, Moscow, Russia • Teaching assistant role, guiding solving olympiad-style and calculus problems in class one-on-one with the students

Invited talks at seminars and colloquia

December 2025	Applied mathematics seminar, Virginia Tech
November 2025	Applied and Computational Mathematics Seminar, Temple University, USA
May 2025	Electrical and Computer Engineering Seminar, University of Delaware, USA
March 2025	Stochastics Seminar, Georgia Institute of Technology, Atlanta, GA
September 2023	Probability seminar talk, Brown University, RI
June 2023	Probability seminar talk, Utrecht University, The Netherlands
November 2022	High-dimensional statistics and probability interdisciplinary seminar, Harvard University
October 2022	Statistics seminar, University of Wisconsin–Madison
September 2022	Probability Seminar, Columbia University
April 2022	Noetherian Ring talk, Princeton University
April 2022	Probability Seminar, University of Virginia
April 2022	Statistics Colloquium Michigan State University (remote)

March 2022	Joint Mathematics and CMSE Colloquium Michigan State University, East Lansing, MI
February 2022	Stochastics Seminar NYU Abu Dhabi (remote)
May 2021	Random Matrix Theory Seminar, Oxford University, UK (remote)
April 2021	Joint Probability seminar, Northwestern University and University of Minnesota (remote)
April 2021	IMA Data Science Seminar University of Minnesota (remote)
March 2021	Analysis seminar, University of Florida (remote)
February 2021	Applied Mathematics and Statistics seminar, Johns Hopkins University, Baltimore, MD (remote)
November 2020	Random Tensors Seminar Texas A&M, College Station, TX (remote)
September 2020	Center for Data Science Lunch seminar NYU, New York, NY (remote)
June 2020	Online Asymptotic Geometric Analysis Seminar
April 2020	Graduate Seminar California State University Channel Islands, CA (remote)
November 2019	Combinatorics and Probability Seminar University of California, Irvine, CA
October 2019	Probability Seminar Stanford University, Palo Alto, CA
October 2019	Probability Seminar University of Southern California, Los Angeles, CA
March 2019	Stochastics Seminar Georgia Institute of Technology, Atlanta, GA
March 2019	Probability Seminar University of Alberta, Edmonton, Canada
June 2017	Probability Seminar Université Paris Diderot, Paris, France
June 2017	Probability Seminar Université-Paris-Est Marne-la-Vallée, Champs-sur-Marne, France
May 2017	Analysis Seminar University of Alberta, Edmonton, Canada
March 2017	MIC Seminar Center for Data Science, NYU, New York

Conference and workshop talks

July 2026	Foundations of Computational Mathematics (FoCM), Random Matrices workshop, Vienna, Austria. Talk: “Structure-aware concentration for mode-wise tensor sketches”.
June 2026	RandNLA workshop, Bernoulli Center for Fundamental Studies, EPFL, Lausanne, Switzerland. Talk: “On regularization via early stopping for least squares regression”.
March 2025	SIAM CSE conference, minisymposium talk, Fort Worth, TX
October 2024	SIAM Mathematics of Data Science conference, minisymposium “Structure in Data: Theory, Learning, and Algorithms”, Atlanta, GA
July 2024	NSF CompMath PI Meeting, Seattle, WA

June 2024	DIMACS Workshop on Modeling Randomness in Neural Network Training: Mathematical, Statistical, and Numerical Guarantees, Rutgers University
May 2024	SIAM Conference on Applied Linear Algebra (LA24), minisymposium “Recent Advances and Critical Challenges in Randomized Linear Algebra”, Sorbonne University, Paris, France
March 2024	Conference on Information Sciences and Systems (CISS 2024), Princeton University
February 2024	IPAM Tensor Networks workshop, Los Angeles, CA
October 2023	2023 AWM Research Symposium, section “Women in Tensor Optimization”, Clark Atlanta University, Atlanta, GA
August 2023	ICIAM 2023 congress, talk at a minisymposium “Optimal and efficient algorithms for inverse problems”, Waseda University, Tokyo, Japan
July 2023	SAMPTA conference, Yale University, New Haven
June 2023	Foundations of Computational Mathematics conference, talks in the sections “Random matrices” and “Theoretical foundations of data science”, Paris, France
January 2023	Joint Math Meetings workshop “Applications of Tensors in Computer Science”, Boston, USA
December 2022	PRIMA special session “Mathematics of Information”, Vancouver, Canada
December 2022	IPAM Workshop “Multi-Modal Imaging with Deep Learning and Modeling” within long program on Computational Microscopy, Los Angeles, CA
August 2022	Southeastern Probability Conference, UNC Chapel Hill
July 2022	SIAM Annual Meeting, sectional talk, virtual
June 2022	Conference on Random Matrix Theory and Numerical Linear Algebra University of Washington, Seattle, WA
May 2022	Princeton day, Women in Math program, IAS, Princeton
April 2022	Virtual Joint Mathematics Meetings
September 2021	MSRI Connections workshop within Universality and Integrability in Random Matrix Theory program MSRI, Berkeley, CA (remote)
March 2021	SIAM Conference on Computational Science and Engineering, virtual
April 2019	Southern California Applied Mathematics Symposium (SoCAMS) California Institute of Technology, Pasadena, CA
September 2018	Structural Inference in High-Dimensional Models workshop, National Research University Higher School of Economics, Moscow, Russia
August 2018	Summer Informal Regional Functional Analysis Seminar (SUMIFRAS) Texas A&M University, College Station, TX
June 2016	CMS Summer Sectional Meeting University of Alberta, Edmonton, Canada
March 2016	AMS Sectional Meeting University of Georgia, Athens, GA

Expository and educational talks

June 2024	Graduate Summer school on random matrices and applications, (5 talks) University of Michigan, Ann Arbor, MI
May 2023	Graduate Summer school on random matrices and applications, (2 talks for 2.5 hours total) Ohio State University, Columbus, OH

2019	6 expository talks at Reading Random Matrices Seminar University of California, Los Angeles, CA
2018	Research talk at Random Matrices Seminar University of California, Los Angeles, CA
2015–2017	3 expository talks at Analysis/Probability Learning Seminar University of Michigan, Ann Arbor, MI
2014–2015	3 expository talks at Student Analysis Seminar University of Michigan, Ann Arbor, MI
2014–2015	Series of expository talks at Geometric Analysis Reading Seminar University of Michigan, Ann Arbor, MI

Additional conferences and workshops

May 2026	IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2026), Barcelona, Spain.
December 2025	NeurIPS 2025, San Diego, CA
October 2025	Linear Systems and Eigenvalue Problems workshop, Simons Institute, Berkeley, CA
June 2025	Householder Symposium, Cornell University
May 2024	ICERM Random Matrices and Applications workshop
September 2022	SIAM Data Science Symposium (remote)
March–June 2021	IPAM Long Program in Tensor Methods and Emerging Applications to the Physical and Data Sciences, Los Angeles, CA (remote)
November 2019	Asilomar Conference on Signals, Systems, and Computers Pacific Grove, CA
May 2018	Random Matrices and Free Probability Theory Workshop III within Quantitative Linear Algebra long program Institute for Pure and Applied Mathematics, Los Angeles, CA
November 2017	Geometric Functional Analysis and Applications Workshop Mathematical Sciences Research Institute, Berkeley, CA
August 2017	Phenomena in High Dimensions Introductory Workshop within Geometric Functional Analysis and Applications long program Mathematical Sciences Research Institute, Berkeley, CA
August 2017	Geometry and Probability in High Dimensions, Connections for Women Workshop Mathematical Sciences Research Institute, Berkeley, CA
July 2016	The Mathematics of Data, Graduate Summer School IAS/Park City Mathematics Institute, Park City, UT
June 2016	Summer School on Random Matrices University of Michigan, Ann Arbor, MI
April 2016	Informal Analysis Seminar Kent State University, Kent, OH
November 2015	Informal Analysis Seminar Kent State University, Kent, OH
November 2015	Analytic and Probabilistic Techniques in Modern Convex Geometry Conference University of Missouri, Columbia, MO
April 2015	Workshop on Information Theory and Concentration Phenomena Institute for Mathematics and its Applications, Twin Cities, MN

March 2015	Informal Analysis Seminar Kent State University, Kent, OH
October 2014	Informal Analysis Seminar University of Michigan, Ann Arbor, MI
May 2014	Random Matrix Theory School, program for Women and Mathematics Institute for Advanced Study, Princeton, NJ
May 2012	The XIX International Student, Postgraduate and Young Scientist Conference “Lomonosov” Moscow State University, Moscow, Russia
July 2006–2009	Summer School “Contemporary Mathematics” Ratmino, Russia