ARSHAK MINASYAN

pointguard0.github.io

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EDUCATION

Yerevan State University (YSU) — Yerevan, Armenia
PhD in Mathematics — *June 2021*
Thesis title: *Robust Minimax Estimation within the Domain of Computational Tractability*

Skolkovo Institute of Science and Technology (SkolTech) — Moscow, Russia
Master of Science in Mathematics with *Academic Excellence* and *Best Thesis Awards* — *June 2018*

Yandex School of Data Analysis (YSDA) — Moscow, Russia
Master of Science in Computer Science (concurrent with the last year of HSE) — *June 2017*

National Research University Higher School of Economics (HSE) — Moscow, Russia
Major in Mathematics with *Academic Excellence Award*, 2nd/320 — *June 2016*

PUBLICATIONS

(Alphabetical order unless stated otherwise)

T. Galstyan, A. Minasyan, A. Dalalyan. Optimal detection of the feature matching map in presence of noise and outliers, *submitted to Electronic Journal of Statistics*, 2021.

T. Galstyan, A. Minasyan. On Random Weighted Sum of Positive Semi-Definite Matrices, *Proceedings of the YSU A: Physical and mathematical sciences. 54, 96–100 (2020).*

A. Dalalyan, A. Minasyan. All-In-One Robust Estimator of the Gaussian Mean. Preprint available: *arXiv:2002.01432. accepted to Annals of Statistics, 2020.*

A. Minasyan. Excess-Risk consistency of group-hard thresholding estimator in Robust Estimation of Gaussian Mean, *Journal of Contemporary Mathematical Analysis, 55, 208–212 (2020).*

A. Minasyan, B. Polyak. Minimization over Stiefel manifold: Robust PCA and eigenvalue problem. *submitted to Computational Optimization and Applications, 2020.*

A. Minasyan. On the Convergence and Robustness of Mean-vector Estimation of Inlier Distribution. *21st European Young Statisticians Meeting, 2019.*

A. Minasyan. Alternating Least Squares for Generalized Linear Models. *Journal of Contemporary Mathematical Analysis, 54, 302–321 (2019).*

ACADEMIC POSITIONS & INTERNSHIPS

CREST-ENSAE — Paris, France
Postdoctoral fellow — *September 2021 - present*
Host: Arnak Dalalyan

ADVANCE Grant Program: Machine Learning Group — Yerevan, Armenia
Senior Researcher — *September 2021 – present*
Junior Researcher — *September 2020 – September 2021*

CREST-ENSAE — Paris, France
Visiting Scholar — *May 2019 – July 2019*
Host: Arnak Dalalyan

YerevaNN Research Lab — Yerevan, Armenia
Machine Learning Researcher — *September 2018 – September 2021*

Yandex LLC — Moscow, Russia
Machine Learning Intern — *June 2017 – September 2017*
Hosted by Yandex.Weather team.

Institute for Information Transmission Problems (IITP) Moscow, Russia
Junior Researcher *June 2015 - June 2018*
Group of Vladimir Spokoiny.

International Laboratory of Stochastic Analysis and its Applications, HSE Moscow, Russia
Research Assistant *June 2015 - May 2016*
Group of Valentin Konakov.

CONFERENCES, TALKS, AND WORKSHOPS

Meeting in Mathematical Statistics	2021, Luminy, France
International Conference Dedicated to the 100th Anniversary of YSU	2019, Yerevan, Armenia
Science and Technology Convergence Conference. NAS RA	2019, Yerevan, Armenia
Structural Inference in High-Dimensional Models 2	2019, Saint-Petersburg, Russia
21st European Young Statisticians Meeting	2019, Belgrade, Serbia
9th Lisbon Machine Learning School	2019, Lisbon, Portugal
12th International Conference on Numerical Optimization and Numerical Linear Algebra	2019, Jiangxi, China
International Conference on Mathematical Optimization	2019, Beijing, China
XIII Annual Research Conference	2018, Yerevan, Armenia
Science and Technology Convergence. NAS RA	2018, Yerevan, Armenia
Structural Inference in High-Dimensional Models. Higher School of Economics	2018, Moscow, Russia
Summer School in Machine Learning. Yerevan State University	2018, Yerevan, Armenia
Summer School in Random Matrices. University of Michigan	2018, Michigan, USA
Summer School: Information theory: Inequalities, Distances and Analysis	2018, Paris, France
New frontiers in high-dimensional probability and statistics	2018, Moscow, Russia
Yerevan State University (YSU) 4th International Conference	2017, Yerevan, Armenia
Generation-Y Conference	2017, Sochi, Russia
Introductory Workshop: Phenomena in high dimensions	2017, Berkeley, USA
Gene Golub Siam Summer School 2017 Annual Meeting	2017, Berlin, Germany
Summer School on Lèvy Processes	2016, Lille, France
Bayesian Statistics and Algorithms (Thematic Month on Statistics - Week 5)	2016, Marseille, France
Workshop on Group Representation in Dynamical Systems and Geometry	2015, Marseille, France

TEACHING

Yerevan State University (YSU) Yerevan, Armenia
· Teaching Assistant in "Probability Theory I" Fall 2019-2020
· Lecturer of "High-dimensional Statistics" Fall 2019, Spring 2020
· Teaching Assistant in "Probability Theory II" Spring 2020
· Lecturer of "Stochastic Processes" Fall 2020

Skolkovo Institute of Science and Technology (SkolTech) Moscow, Russia
· Teaching Assistant in "Biostatistics" Spring 2018

National Research University Higher School of Economics (HSE) Moscow, Russia
· Head Teaching Assistant in "Statistical Methods in Machine Learning" Fall 2017
· Head Teaching Assistant in "Statistics of Stochastic Processes" Spring 2017, 2018
· Teaching Assistant in "Probability Theory and Statistics I, II" 2014, 2015

Moscow Institute of Physics and Technology (MIPT) Moscow, Russia

· Teaching Assistant in "Statistical Learning Theory" Spring 2017

Yandex School of Data Analysis (YSDA) Moscow, Russia

· Head Teaching Assistant in "Statistical Methods in Machine Learning" Spring 2017
· Teaching Assistant in "Discrete Mathematics and Probability Theory" Fall 2016

ACADEMIC HONORS & AWARDS

EIF PhD Support Program	2020–2021, Yerevan
Research Grant for Young Scientists by Science Committee of Armenia	2020–2021, Yerevan
FAST Research Travel Grant	2019, Yerevan
Best Thesis Award at Skoltech	2018, Moscow
Best Speech Award in YSU 4th International Conference	2017, Yerevan
Best Undergraduate Research Award at HSE	2016, Moscow

SKILLS

Programming: C/C++, Python, Julia, R, MATLAB, Mathematica, Git, Vim, LaTeX.

Foreign Languages: Bilingual in Armenian and Russian. English (fluent), French (basic knowledge).

MISC

Co-organizer of StatEcoML seminar of ENSAE-CREST: `https://statecoml.github.io/`	2021–present, Palaiseau
Co-organizer of Yerevan Machine Learning Reading Group	2018–present, Yerevan
HSE Olympiad in Applied Mathematics and Informatics: 2nd prize, 2nd absolute place	2015–2016, Moscow
Moscow Institute of Physics and Technology (MIPT) Olympiad in Mathematics: 1st prize	2016, Moscow
Jaguar Game Changer Scholarship Winner	2015, Moscow
International Mathematical Olympiad (IMO): Participation and Honourable Mention	2011, Amsterdam
International Zhautykov Olympiad (IZhO): Bronze medal	2011, Almaty

REFERENCES

available upon request