Avetik Karagulyan

CONTACTS

ADDRESS: École Nationale de la Statistique et de l'Administration Économique (ENSAE)

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EDUCATION

SEPTEMBER 2018 Ph.D. under superivision of prof. Arnak Dalalyan

ENSAE/CREST, Palaiseau, France

2017/2018 M2 - MVA (Mathematics, Vision, Learning)

École normale supérieure Paris-Saclay, Cachan, France

MENTION: Très bien

JUNE 2017 Degree in MATHEMATICS

Yerevan State University, Yerevan, Armenia

GPA: 20/20

JUNE 2013 High-school degree

PhysMath school after A.Shahinyan, Yerevan, Armenia

CONFERENCES, TALKS, WORKSHOPS

2020 DECEMBER	Meeting in Mathematical Statistics Talk	
2020 DECEMBER	33-rd Neural Information Processing Systems Poster	
2020 JULY	Joint Structures and Common Foundations of Statistical Physics, Information	
•	Geometry and Inference for Learning (SPIGL'20), Les Houches, France Poster	
2020 MARCH	Optimization for Machine Learning, Luminy, France	
2019 DECEMBER	Meeting in Mathematical Statistics, Luminy, France	
2019 APRIL	Seminar at Télécom ParisTech, Paris, France Talk	
2019 APRIL	8èmes Rencontres des Jeunes Statisticiens (RJS 2019), Porquerolles	
	France Talk	
2019 MARCH	YES X: "Understanding Deep Learning: Generalization, Approximation and	
	Optimization", Eindhoven, Netherlands, Poster	
2016 July	3 rd Summer school "Mathematics and Applications", Tsaghkadzor, Armenia	
2015 AUG	Visiting Student Research Program "Applied Differential Equations"	
	KAUST, Saudi Arabia	
2015 JULY	2 nd Summer school "Mathematics and Applications", Tsaghkadzor, Armenia	
2014 JULY	1st Summer school "Mathematics and Applications", Tsaghkadzor, Armenia	

WORK EXPERIENCE

APR 2018 - SEPT 2018	ENSAE/CREST Research intern supervised by A.Dalalyan
Jun 2017 - Aug 2017	Innovative Solutions and Technologies Center - ISTC Math trainer
SEPT 2016 - MAY 2017	American University of Armenia Teaching Associate
APR 2016 - JUL 2016	MER SOFT LLC. Internship in Medical Data Analysis

RESEARCH, ARTICLES

Penalized Langevin dynamics with vanishing penalty for smooth and log-concave targets, Avetik Karagulyan, Arnak Dalalyan | Accepted to NeurIPS 2020.

Bounding the error of discretized Langevin algorithms for non-strongly log-concave targets, Arnak Dalalyan, Avetik Karagulyan and Lionel Riou-Durand | https://arxiv.org/abs/1906.08530

Non-Asymptotic Guarantees For Sampling by Stochastic Gradient Descent, Avetik G. Karagulyan | Journal of Contemporary Mathematical Analysis (Armenian Academy of Sciences) 54.2 (2019): 71-78

User-friendly guarantees for the Langevin Monte Carlo with inaccurate gradient, Arnak S. Dalalyan, Avetik G. Karagulyan | Stochastic Processes and their Applications 129.12 (2019): 5278-5311.

Existence of positive solutions for an approximation of stationary mean-field games, Diogo Gomes et al. | Involve, a Journal of Mathematics Vol. 10 (2017), No. 3, 473-493

ACHIEVEMENTS AND AWARDS

SILVER MEDAL	IMC 2017 Blagoevgrad, Bulgaria
Bronze Medal	IMC 2016 Blagoevgrad, Bulgaria
SILVER MEDAL	IMC 2015 Blagoevgrad, Bulgaria
GOLD MEDAL	2017, Awarded by Yerevan State University
	For high academic performance and participation in olympiads
"BEST STUDENT OF FACULTY"	2015, Awarded by Yerevan State University
Honourable Mention	IMO 2013 Santa Marta, Colombia
Honourable Mention	IMO 2012 Mar del Plata, Argentina
Semi-finalist	ACM-ICPC 2015 Tbilisi, Georgia
Semi-finalist	ACM-ICPC 2014 Tbilisi, Georgia
Semi-finalist	ACM-ICPC 2013 Tbilisi, Georgia
2 ND PRIZE	Mirror of William Lowell Putnam Mathematical Competition 2016
2 ND PRIZE	Mirror of William Lowell Putnam Mathematical Competition 2013

LANGUAGES

ARMENIAN: Native or bilingual proficiency
ENGLISH: Full professinal proficiency
RUSSIAN: Full professional proficiency
FRENCH: Professional working proficiency