

Avetik KARAGULYAN

CONTACTS

ADDRESS: Office 3012
5 Avenue Henry Le Châtelier | Palaiseau France | 91120
PHONE: +33 6 41 87 05 77
EMAIL: auavetik@gmail.com

EDUCATION

SEPTEMBER 2018 Ph.D. under supervision of prof. Arnak Dalalyan
ENSAE/CREST, Palaiseau, France
2017/2018 M2 - MVA
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

JULY 2016 3rd Summer school "Mathematics and Applications" held by YSU
AUG-SEPT 2015 Visiting Student Research Program "Applied Differential Equations"
KAUST, Saudi Arabia
JULY 2015 2nd Summer school "Mathematics and Applications" held by YSU
JULY 2014 1st Summer school "Mathematics and Applications" held by YSU
JULY 2011 Summer school held by Higher School of Economics
Dilijan, Armenia

WORK EXPERIENCE

APR 2018 - SEPT 2018	ENSAE/CREST <i>Research intern supervised by A.Dalalyan</i>
JUN 2017 - AUG 2017	INNOVATIVE SOLUTIONS AND TECHNOLOGIES CENTER - ISTC <i>Math trainer</i>
SEPT 2016 - MAY 2017	AMERICAN UNIVERSITY OF ARMENIA <i>Teaching Associate</i>
APR 2016 - JUL 2016	MER SOFT LLC. <i>Internship in Medical Data Analysis</i>

RESEARCH, ARTICLES

Penalized Langevin dynamics with vanishing penalty for smooth and log-concave targets, Avetik Karagulyan, Arnak Dalalyan | <https://arxiv.org/abs/2006.13998>

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
"BEST STUDENT OF FACULTY"	For high academic performance and participation in olympiads 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 professional proficiency
RUSSIAN:	Full professional proficiency
FRENCH:	Professional working proficiency