

KARINE CHUBARIAN

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Department of Mathematics, Statistics and Computer Science
University of Illinois at Chicago

EDUCATION

University of Illinois in Chicago

PhD Candidate, Mathematical Computer Science

Advisors (in alphabetical order): Anastasios Sidiropoulos, György Turán

August 2016 - Present

Southern Federal University, Rostov-on-Don, Russia

Master of Science

Mathematics

July 2014

With Distinction

Bachelor of Science

Applied Mathematics and Computer Science

June 2012

Summa Cum Laude

RESEARCH EXPERIENCE

Authors are listed in alphabetical order.

1. K. Chubarian, A. Sidiropoulos, *Computing Bi-Lipschitz Outlier Embeddings into the Line*, 2020, In Progress
 2. K. Chubarian, G. Turán, *Interpretability of Bayesian Network Classifiers: OBDD Approximation and Polynomial Threshold Functions*, 2019, Submitted
 3. Master's Thesis: *Perturbance of Toeplitz Matrices by Small Ranked Matrices*, advisor: A. Kozak
 4. Bachelor's Thesis: *The Influence of Perturbations on the Limit of the Spectrum of Toeplitz Matrices*, advisor: A. Kozak
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TEACHING EXPERIENCE

Grader

University of Illinois at Chicago
Summer 2019 - Present

- **Spring 2020 and Summer 2019:** MCS 401 "Computer Algorithms" (Homework Grading and Office Hours)

Teaching Assistant

University of Illinois at Chicago
Fall 2016 - Fall 2019

- MATH 122 "Emerging Scholars Workshop for Precalculus" (Primary Instructor)
- MATH 121 "Precalculus"
- MATH 410 "Computer Algorithms"
- MATH 125 "Linear Algebra for Business"
- MATH 110 "College Algebra"
- MATH 118 "Mathematical Reasoning"

Student TutorSouthern Federal University
Fall 2012 - Spring 2014

- Calculus I
 - Calculus II
 - Linear Algebra
 - Analytic Geometry
 - Introduction to Computer Science
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TALKS GIVEN**Computing Bi-Lipschitz Outlier Embeddings into the Line** (Poster)
TRIPODS Open House**Interpretability of Bayesian Network Classifiers**
International Symposium on Artificial Intelligence and Mathematics ISAIM 2020
70th Midwest Theory Day**Intro to PAC Learning** Fall 2018
UIC Undergraduate Math Club**Embedding of Graphs in Line** Spring 2018
UIC Graduate Mathematical Computer Science Seminar**On Scott Aaronson P-NP Survey** Fall 2017
UIC Graduate Mathematical Computer Science Seminar**CONFERENCES
AND
WORKSHOPS
ATTENDED****TRIPODS Open House** January 17, 2020
Poster Presenter, University of Illinois at Chicago Chicago**International Symposium on Artificial Intelligence
and Mathematics ISAIM 2020** January 6-8, 2020
Presenter Fort Lauderdale**70th Midwest Theory Day** November 23, 2019
Presenter, Illinois Institute of Technology Chicago**2019 Junior Theorists Workshop** November 14-15, 2019
Attendee, Northwestern University Evanston**Swedish Summer School in Computer Science 2019** Summer 2019
Attendee, KTH Royal Institute of Technology Stockholm**Machine Learning Summer Workshop** June 18-29, 2018
Attendee, Toyota Technological Institute Chicago**Midwest Symposium for Women in Mathematics** April 7, 2018
Attendee, Purdue University West Lafayette