ALAİTTİN KIRTIŞOĞLU

Applied Mathematics Illinois Institute of Technology Chicago, USA

akirtisoglu@hawk.iit.edu https://kirtsoglu.github.io

EDUCATION

Ph.D. in Applied Mathematics Illinois Institute of Technology	Chicago, USA 2021 Aug-present
M.S. in MathematicsHacettepe University, Advisor: Lale ÖzkahyaThesis: "Variations of Star Coloring on Graphs"	Ankara, Turkey 2019–2021
B.S. Exchange Student Lublin University of Technology	Lublin, Poland Feb-July 2016
B.S. in Mathematics Mustafa Kemal University, In the first place	Hatay, Turkey 2014–2018

EXPERIENCES

Fermi National Accelerator Laboratory (FERMILAB) Intern in a Research Project

Batavia, USA

May 16 –July 22, 2022

This full time internship is an education program administered by ORISE sponsored by NSF. We collaborate together with high energy physicists to help define methods and algorithms for locating and identifying particles trajectories in data obtained from state-of-the-art 3D detectors using graph theory and related machine learning techniques.

Illinois Institute of Technology	Chicago, USA
Teaching Assistant	2021 –Present
 MATH 350 Introduction to Computational Mathematics 	Spring 2022
- MATH 251 Multivariate and Vector Calculus	Spring 2022
 MATH 333 Complex Analysis and Linear Algebra 	Fall 2021
- MATH 252 Differential Equations	Fall 2021

TED University
Ankara, Turkey
Teaching Assistant

- MATH 221 Linear Algebra I

- MATH 102 Multivariable Calculus

- MATH 203 Linear Algebra and Differential Equations

Spring 2020

Spring 2020

- MATH 101 Calculus of One Variable

- MATH 112 Introduction to Multivariable Calculus Fall 2019, Spring 2020

Papers Submitted To Journals

[1] A. Kırtışoğlu and L. Özkahya, "Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length, [arXiv]".

Fall 2019, Fall 2020

CONTRIBUTED TALKS

1. British Combinatorial Conference (Online) "Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length"	July 2021
2. SIAM Conferences on Discrete Mathematics (Online) "Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length"	July 2021
3. European Combinatorial Conference (Online) "Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length"	Sep 2021
Organizing	
• VI. Mathematics Meeting, Hacettepe University Student seminars series. The meeting is held at different universities each semester and five to six hundred students attend.	Oct 2019
• Home Seminars Organized up to 20 math seminars in my home with 30 students studying at METU, Hacettepe and Bilkent Universities.	Dec 2018–July 2019
• IV. Mathematics Meeting, Middle East Tecnical University	Oct 2018
Presentations	
 VII. Mathematics Meeting, Boğaziçi University "A Geometric Proof of the Infinity of Primes" 	Feb 2020
2. VI. Mathematics Meeting, Hacettepe University "Acyclic and Star Colorings of Regular Graphs"	Oct 2019
3. IV. Mathematics Meeting, Middle East Technical University "Congruent Numbers and Elliptic Curves"	Oct 2018
4. III. Mathematics Meeting, Galatasaray University "The Game of Hex and Brouwer Fixed Point Theorem"	Feb 2018
Workshops	
• Metric Graph Theory, at CIRM in Marseille, France	Dec 6–11 2021
• Nesin Math Village Summer and Winter Schools, Turkey	2015-2020
• Cakilarasi Math Village Summer Schools, Turkey	2017–2019
• Analysis and Algebra Summer School, Turkish Mathematical Society	June 19–23, 2017
• Analysis Summer School, Turkish Mathematical Society	July 11–22, 2016
SKILLS AND HOBBIES	

• Languages: English, Turkish (Native)

• Computer Skills: Phyton, Matlab, Latex

• Hobbies: GO Player (1 dan)