

ALAİTTİN KIRTIŞOĞLU

Applied Mathematics
Illinois Institute of Technology
Chicago, USA

akirtisoglu@hawk.iit.edu

<https://kirtsoglu.github.io>

EDUCATION

Illinois Institute of Technology

Ph.D. in Applied Mathematics

Chicago, USA

2021–present

Hacettepe University

M.S. in Mathematics, GPA: 3.93/4.00, Advisor: [Lale Özkahya](#)

Ankara, Turkey

2019–2021

– Thesis: “Variations of Star Coloring on Graphs”

Lublin University of Technology

B.S. Exchange Student

Lublin, Poland

Feb–July 2016

Mustafa Kemal University

B.S. in Mathematics, GPA: 3.93/4.00, **In the first place**

Hatay, Turkey

2014–2018

TAKEN COURSES

- **In Ph.D.:** Computational Mathematics, Applied Analysis, Probability, Statistics, Optimization, Machine Learning
- **In M.S.:** Graph Theory, Real Analysis, Algebra, Topology I, Topology II, Game Theory, Algebraic Topology

TEACHING EXPERIENCE

Illinois Institute of Technology

Teaching Assistant

Chicago, USA

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

Teaching Assistant

Ankara, Turkey

2019 –2021

– MATH 221 Linear Algebra I

Spring 2021

– MATH 102 Multivariable Calculus

Spring 2020, Spring 2021

– MATH 203 Linear Algebra and Differential Equations

Spring 2020

– MATH 101 Calculus of One Variable

Fall 2019, Fall 2020

– 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, [\[arXiv\]](#) ”.

CONTRIBUTED TALKS

1. **British Combinatorial Conference (Online)** July 2021
“Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length”
2. **SIAM Conferences on Discrete Mathematics (Online)** July 2021
“Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length”
3. **European Combinatorial Conference (Online)** Sep 2021
“Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length”

ORGANIZING

- **VI. Mathematics Meeting, Hacettepe University** Oct 2019
Student seminars series. The meeting is held at different universities each semester and five to six hundred students attend.
- **Home Seminars** Dec 2018–July 2019
Organized up to 20 math seminars in my home with 30 students studying at METU, Hacettepe and Bilkent Universities.
- **IV. Mathematics Meeting, Middle East Technical University** Oct 2018

PRESENTATIONS

1. VII. Mathematics Meeting, Boğaziçi University Feb 2020
“A Geometric Proof of the Infinity of Primes”
2. VI. Mathematics Meeting, Hacettepe University Oct 2019
“Acyclic and Star Colorings of Regular Graphs”
3. IV. Mathematics Meeting, Middle East Technical University Oct 2018
“Congruent Numbers and Elliptic Curves”
4. III. Mathematics Meeting, Galatasaray University Feb 2018
“The Game of Hex and Brouwer Fixed Point Theorem”

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:** Python, Matlab, Latex
- **Hobbies:** GO Player (1 dan)