

ALAİTTİN KIRTIŞOĞLU

Department of Applied Mathematics
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RESEARCH INTERESTS

Extremal Graph Theory, Positional Games

EDUCATION

Illinois Institute of Technology Ph.D. in Applied Mathematics, Supervisor: Hemanshu Kaul	Chicago, USA 2021–present
Hacettepe University M.S. in Mathematics, GPA: 3.93/4.00, Supervisor: Lale Özkahya – Thesis: “Variations of Star Coloring on Graphs”	Ankara, Turkey 2019–2021
Lublin University of Technology Erasmus Exchange Student, Adviosor: Izolda Gorgol	Lublin, Poland Feb–June 2016
Mustafa Kemal University B.S. in Mathematics, GPA: 3.45/4.00, In the first place – Thesis: “The Game of Hex and Brouwer Fixed Point Theorem”	Hatay, Turkey 2014–2018

TEACHING EXPERIENCE

Illinois Institute of Technology Teaching Assistant – Complex Analysis and Linear Algebra MATH 333 / Grader – Differential Equations MATH 252 / Grader	Chicago, USA Aug 2021–Present Fall 2021 Fall 2021
TED University Teaching Assistant – Multivariable Calculus MATH 102 / Recitation – Linear Algebra I MATH 221 / Recitation – Calculus of One Variable MATH 101 / Recitation – Multivariable Calculus MATH 102 / Recitation – Introduction to Multivariable Calculus MATH 112 / Recitation – Linear Algebra and Differential Equation MATH 203 / Grader – Calculus of One Variable MATH 101 / Recitation – Introduction to Multivariable Calculus MATH 112 / Recitation	Ankara, Turkey Sep 2019–Aug 2021 Spring 2021 Spring 2021 Fall 2020 Spring 2020 Spring 2020 Spring 2020 Fall 2019 Fall 2019

PAPERS SUBMITTED TO JOURNALS

- [1] A. Kirtışoğlu and L. Özkahya, “Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length, [\[arXiv\]](#) ”.

CONTRIBUTED TALKS

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

ORGANIZING

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

PRESENTATIONS

1. VII. Mathematics Meeting, Boğaziçi University Feb 2020
“A Geometric Proof of the Infinity of Primes”
2. VI. Mathematics Meeting, Hacettepe University October 2019
“Acyclic and Star Colorings of Regular Graphs”
3. IV. Mathematics Meeting, Middle East Technical University October 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](#) 19–23 June 2017
- Analysis Summer School, [Turkish Mathematical Society](#) 11–22 July 2016

SKILLS AND HOBBIES

- **Languages:** English, Turkish (Native)
- **Computer Skills:** Python, Matlab, Latex
- **Hobbies:** GO Player (1 dan)