

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

Teaching Assistant/Recitation Instructor TED University	Ankara, Turkey Sep 2019–Aug 2021
– Multivariable Calculus MATH 102 / Recitation	Spring 2021
– Linear Algebra I MATH 221 / Recitation	Spring 2021
– Calculus of One Variable MATH 101 / Recitation	Fall 2020
– Multivariable Calculus MATH 102 / Recitation	Spring 2020
– Introduction to Multivariable Calculus MATH 112 / Recitation	Spring 2020
– Linear Algebra and Differential Equation MATH 203 / Grading	Spring 2020
– Calculus of One Variable MATH 101 / Recitation	Fall 2019
– Introduction to Multivariable Calculus MATH 112 / Recitation	Fall 2019

PAPERS SUBMITTED TO JOURNALS

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

UPCOMING TALKS

- SIAM Conferences on Discrete Mathematics, Spokane, Washington, U.S.
“Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length”
July 20-23, 2021
- EUROCOMB 2021, Barcelona, Spain
“Coloring of Graphs Avoiding Bicolored Paths of a Fixed Length”
September 6-10, 2021

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 Some Graph Families”
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

- Arithmetic Winter School, Nesin Mathematics Village Jan 22–19 2019
- Various Topics in Graph Theory, Çakılları Mathematics Village Sep 10–15 2018
- Affine and Projective Geometry, Çakılları Mathematics Village Sep 3–8 2018
- Complex Analysis, Çakılları Mathematics Village Sep 3–8 2018
- Euclidean Geometry and Measure Theory, Çakılları Mathematics Village July 16–21 2018
- Undergrad-Grad Summer School, Nesin Mathematics Village July 15–August 31 2018
- Undergrad-Grad Winter School, Nesin Mathematics Village Jan 28–Feb 11 2018
- Random Matrices and Number Theory, Nesin Mathematics Village Jan 22–28 2018
- Undergrad-Grad Winter School, Nesin Mathematics Village Jan 15–21 2018
- Undergraduate-Graduate Summer School, Nesin Mathematics Village July 10–August 28 2017
- Analysis and Algebra Summer School, Turkish Math Society 19–23 June 2017
- Undergraduate-Graduate Summer School, Nesin Mathematics Village 23 July–29 August 2016
- Analysis Summer School, Turkish Math Society 11–22 July 2016
- Linear Algebra Workshop, Nesin Mathematics Village Jan 18–Feb 07 2016
- Undergraduate-Graduate Summer School, Nesin Mathematics Village July 13–August 31, 2015

Nesin Math Village: <https://nesinkoyleri.org/en/introduction-to-nesin-villages/>
Çakılları Math Village: <https://www.cakilarasimatematikkoyu.com/>

SKILLS

- **Languages:** English, Turkish (Native)
- **Computer Skills:** Excel, Matlab, Latex