

Mehmet Basaran

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Education

- ▶ **PhD Mathematics**, *expected 2027*
The Ohio State University; Columbus, Ohio
Doctoral Advisor: Stefan Patrikis
- ▶ **M.Sc. Mathematics**, *December 2024*
The Ohio State University; Columbus, Ohio
Doctoral Advisor: Stefan Patrikis
- ▶ **M.Sc. Mathematics**, *November 2021*
Ulm University; Ulm, Germany
Minors: Physics, Computer Science
Thesis Title: Algebraic Approximation of p -adic Number Fields
Thesis Advisor: Stefan Wewers
- ▶ **M.Sc. Mathematics**, *May 2020*
Syracuse University; Syracuse, New York
- ▶ **B.Sc. Mathematics**, *November 2018*
Ulm University; Ulm, Germany
Minor: Physics
Thesis Title: Die beiden letzten Ziffern von Primzahlen (The Last Two Digits of Primes)
Thesis Advisor: Helmut Maier

Teaching Experience

Teaching Assistant

- ▶ **The Ohio State University**
 - MATH 2153 Calculus III: Autumn 2026
 - MATH 1151 Calculus I: Autumn 2022, Autumn 2025
 - MATH 2173 Engineering Mathematics B: Spring 2025
 - MATH 1148 College Algebra: Autumn 2024
 - MATH 1149 Trigonometry: Spring 2023, Autumn 2023
- ▶ **Syracuse University**
 - MAT397 Calculus III: Autumn 2019, Spring 2020
- ▶ **Ulm University**
 - WiMa-Praktikum I: Summer 2020
 - Allgemeine Informatik I: Winter 2016

Mathematics Clinics & Tutoring_____

► The Ohio State University

- Mathematics and Statistics Learning Center: Autumn 2022 – Autumn 2023, Autumn 2024 – Autumn 2025, Autumn 2026

► Ulm University

- MathLab for Linear Algebra and Analysis: Winter 2017 – Summer 2019, Winter 2020 – Summer 2021

Advising and Service

► Directed Reading Program

The Ohio State University Department of Mathematics

- Member of the organizing committee, Autumn 2024 – present
- Mentored multiple students

► Council of Graduate Students

The Ohio State University, September 2024 – present

- Delegate for the Department of Mathematics
- Member of multiple internal and external committees
- Judged applications for the Ray Travel Award

► Graduate Student TA Peer Mentor Program

The Ohio State University Department of Mathematics, Autumn 2024, Autumn 2025, Autumn 2026

- Mentored two new TAs per semester
- Observed and discussed their teaching

► Graduate Teaching Orientation

Michael V. Drake Institute for Teaching and Learning, Summer 2026

- Orientation Facilitator
- Facilitated both remote and in-person teaching sessions for new TAs

Grants and Awards

► Graduate Associate Teaching Award

The Ohio State University Graduate School, May 2026

► Special Graduate Assignment

The Ohio State University Department of Mathematics, Spring 2026

► Phil Huneke Distinguished Graduate Teaching Associate Award

The Ohio State University Department of Mathematics, May 2024

- ▶ **University Fellowship**
The Ohio State University, August 2021 – July 2022
- ▶ **Friedrich-Ebert-Stiftung Scholarship**
Bonn, May 2017 – July 2021
- ▶ **Travel Grant**
Syracuse University Mathematics Department, March 2020
- ▶ **Travel Grant**
Syracuse University Graduate Student Organization, March 2020
- ▶ **Best Mathematics Bachelor's Degree**
Ulm University, May 2019

Research Experience

- ▶ *Three G -valued Deformation Problems*
Preprint, *work in progress*
- ▶ *Algebraic Approximation of p -adic Number Fields*
Master's Thesis, Supervisor: Stefan Wewers, November 2021
- ▶ *Die beiden letzten Ziffern von Primzahlen (The Last Two Digits of Primes)*
Bachelor's Thesis, Supervisor: Helmut Maier, August 2018

Conferences

- ▶ **MAGNTS 2025**
The Ohio State University, March 2025
- ▶ **The Legacy of John Tate, and Beyond**
Harvard University, March 2025
- ▶ **Arizona Winter School**
University of Arizona, March 2025
- ▶ **MAGNTS 2023**
University of Michigan, October 2023
- ▶ **MAGNTS 2022**
University of Illinois Chicago, October 2022
- ▶ **Arizona Winter Semester 2021: Virtual School in Number Theory**
University of Arizona, Spring 2021, *moved online due to COVID-19*
- ▶ **Québec-Maine Number Theory Conference**
Université Laval, September 2020, *moved online due to COVID-19*

- ▶ **45th Annual New York State Regional Graduate Mathematics Conference**
Syracuse University, March 2020, *moved online due to COVID-19*
- ▶ **Arizona Winter School**
University of Arizona, March 2020
- ▶ **Arithmetik an der A7**
Ulm University, July 2019

Skills

- ▶ **Programming Languages:** HTML, Java, Python
- ▶ **Languages:** German (Native), Turkish (Native), English (Fluent), French (Advanced), Spanish (Intermediate), Arabic (Beginner)
- ▶ **Mathematics Programs:** $\text{\LaTeX}$, Mathematica, MATLAB, Sage