Gamze Akar

Curriculum Vitae

Istinye University, Vadi Campus, 34396 Sarıyer/Istanbul
✉ *gamze.akar@istinye.edu.tr*

Education

2022–current **Ph.D. in Mathematics**, *under advisor of* **Asst. Prof. Dr. Temha Erkoç** , Istanbul University, Istanbul, Turkey .

2019–2022 **M.Sc. in Mathematics**, GPA: 3.79/4, Istanbul University, Istanbul, Turkey .
- **M.Sc. Thesis:** "*Character Degree Graphs*," under advisor of **Asst. Prof. Dr. Temha Erkoç**

2015–2019 **B.Sc. in Mathematics**, GPA: 3.60/4, Istanbul University, Istanbul, Turkey.

Experiences

2020–current **Research Assistant**, Department of Mathematics , Istinye University, Istanbul.

Research Interests

- **Finite Group Theory**
- **Character Theory**
- **Character Degree Graphs**

Teaching Experiences

Fall 2020-2021 **Teaching Assistant**, Calculus 1, Analytic Geometry and Linear Algebra 1, Istinye University.

Spring 2020-2021 **Teaching Assistant**, Calculus 2, Analytic Geometry and Linear Algebra 2, Istinye University.

Fall 2021-2022 **Teaching Assistant**, Calculus for Mathematics Students 1, Analytic Geometry and Linear Algebra 1, Algebra 1, Advanced Calculus 1, Istinye University.

Spring 2021-2022 **Teaching Assistant**, Calculus for Mathematics Students 2, Analytic Geometry and Linear Algebra 2, Algebra 2, Advanced Calculus 2, Istinye University.

Fall 2022-2023 **Teaching Assistant**, Analytic Geometry and Linear Algebra 2, Elementary Number Theory, Linear Algebra, Differential and Integral Calculus 1, Istinye University.

Spring 2022-2023 **Teaching Assistant**, Calculus 2, Computational Thinking, Istinye University.

Fall 2023-2024 **Teaching Assistant**, Calculus 1, Differential and Integral Calculus 1, Istinye University.

Projects

- **1002 TÜBİTAK, 2020-2021**
  Finite Solvable Groups having few imprimitive irreducible characters, project number is 119F295. (as a scholarship)
- **1001 TÜBİTAK, 2023-2026**
  Strongly Monolithic Characters of Finite Groups and Conjugacy Classes, project number is 123F260. (as a researcher)

Publications

- Temha Erkoç and Gamze Akar, "Rational groups whose character degree graphs are disconnected" in *Comptes Rendus Mathématique*, 2022.
- Temha Erkoç, Sultan Bozkurt Güngör, Gamze Akar, "SM-Vanishing Conjugacy Classes of Finite Groups " in *Journal of Algebra and Its Applications*, 2023.
- Sultan Bozkurt Güngör, Gamze Akar, Temha Erkoç, "A note on vanishing elements and co-degrees of strongly monolithic characters of finite groups" in *Istanbul Journal of Mathematics* , 2024.

Activities

2017 **Participant**, Istanbul University.
- **Student Workshop on Mathematics III**

2018 **Participant**, Istanbul University.
- **Student Workshop on Mathematics IV**

2019 **Volunteer**, Istanbul University.
- **International Workshop on Harmonic Analysis and Operator Theory**

2021 **Speaker**, Istanbul University.
- 33th **National Mathematics Symposium**

2022 **Speaker**, İzmir Institute of Technology.
- **İzmir Mathematics Days (İMG2022)**

2022 **Speaker**, Batumi Shota Rustaveli State University.
- **Georgian Mathematical Union XII Annual International Conference (GMU2022)**

2022 **Speaker**, İzmir Dokuz Eylül University.
- 34th **National Mathematics Symposium**

2023 **Speaker**, *A classification of rational groups by using character degree graphs*, North-West University.
- **The Seventh Biennial International Group Theory Conference 2023**

2024 **Participant**, Università degli Studi di Firenze, Italy.
- **Group Theory in Florence IV**

2024 **Visiting Researcher**, Università degli Studi di Firenze, Italy.

- **Invitor : Prof. Silvio Dolfi**

Languages

- **Language: English**

Honors & Awards

- 2211/A National PhD TÜBİTAK Scholarship
- In Undergraduation Mathematics Third Award
- 1002 TÜBİTAK Scholarship
- ISS Scholarship

Skills

- **Latex**
- **Word**
- **Excel**