

# Gamze Akar

## Curriculum Vitae

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

### Education

- 2022–current **Ph.D. in Mathematics**, 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 supervision 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.

### Projects

- **1002 TÜBİTAK, 2020-2021**  
*Classification of finite solvable groups with having a couple of imprimitive irreducible characters, project number is 119F295.*

- **1001 TÜBİTAK, 2023-2026**

*Strongly Monolithic Characters of Finite Groups and Conjugacy Classes, project number is 123F260.*

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## 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.

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## Activities

- 2017 **Participant**, Istanbul University.
  - **Student Workshop on Mathematics III**
- 2018 **Participant**, Istanbul University.
  - **Student Workshop on Mathematics IV**
- 2019 **Listener**, Maltepe University.
  - **THIRD INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES (ICMS 2019)**
- 2019 **Volunteer**, Istanbul University.
  - **International Workshop on Harmonic Analysis and Operator Theory**
- 2021 **Speaker**, Istanbul University.
  - **33<sup>th</sup> 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.
  - **34<sup>th</sup> 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**

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## Languages

- **Language: English**

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## Honors & Awards

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

- 1002 TÜBİTAK Scholarship
- ISS Scholarship

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## Skills

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