



Kaveh Dastouri

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EDUCATION

PhD	Tarbiat Modares University, Tehran, Iran <i>Field:</i> Algebra <i>Thesis:</i> "Monomial characters and structure of finite groups" <i>Supervisor:</i> Prof. Ali Iranmanesh <i>Advisor:</i> Prof. Mohsen Ghasemi	2020 – 2023
MS	University of Tabriz, Tabriz, Iran <i>Field:</i> Algebra <i>Thesis:</i> "Irreducible characters of even degree and normal Sylow 2-subgroups" <i>Supervisor:</i> Prof. Kamal Aziziheris	2017 – 2020
BS	Farhangian University, Iran <i>Field:</i> Mathematics Education	2013 – 2017

RESEARCH EXPERIENCE

Research Stay	RPTU Kaiserslautern-Landau, Germany Host: Prof. Günter Malle.	Jul 2026 – Dec 2026
Postdoc	Beijing International Center for Mathematical Research (BICMR), Peking University Supervisor: Prof. Jiping Zhang	Dec 2025 – present
Postdoc	Department of Pure Mathematics, Tarbiat Modares University Supervisor: Prof. Ali Iranmanesh	Jun 2024 – Sep 2025

HONORS AND AWARDS

DAAD Research Grant (German Academic Exchange Service) Competitive research scholarship for a six-month research in Germany.	2026
Highest GPA among PhD Students Highest grade point average among algebra PhD students at Tarbiat Modares University.	2024
Qualified as an "Exceptional Talent" PhD Student Exempt from the entrance exam, Tarbiat Modares University.	2020

PUBLICATIONS

Journal Papers

- [1] Kaveh Dastouri. *Symmetric Group-Based Public-Key Cryptosystem with Large Prime Moduli*. Cryptology ePrint Archive, Paper 2025/1589. 2025. URL: <https://eprint.iacr.org/2025/1589>.
- [2] Kaveh Dastouri and Mohsen Ghasemi. “Groups with prime power Isaacs π -partial character degrees.” (Journal of Algebra and Its Applications). 2025. URL: <https://doi.org/10.1142/S0219498827500897>.
- [3] Kaveh Dastouri and Ali Iranmanesh. “Primes and degrees of Isaacs π -partial characters.” In: *Communications in Algebra* 53.6 (2025), pp. 2523–2527. DOI: [10.1080/00927872.2024.2446543](https://doi.org/10.1080/00927872.2024.2446543). eprint: <https://doi.org/10.1080/00927872.2024.2446543>. URL: <https://doi.org/10.1080/00927872.2024.2446543>.
- [4] Kaveh Dastouri, Ali Iranmanesh, and Mohsen Ghasemi. “Monomial Isaacs π -partial characters and derived length.” In: *Journal of Algebra and Its Applications* 24.04 (2025), p. 2550108. DOI: [10.1142/S0219498825501087](https://doi.org/10.1142/S0219498825501087). eprint: <https://doi.org/10.1142/S0219498825501087>. URL: <https://doi.org/10.1142/S0219498825501087>.
- [5] Kaveh Dastouri, Ali Iranmanesh, and Mohsen Ghasemi. “Primes and Degrees of Isaacs π -partial Character II.” (Submitted). 2025.

Preprints

1. K. Dastouri, “A Symmetric Group-Based Public-Key Cryptosystem with Hard-to-Factor One-Way Function,” (submitted).

Conference Presentations or Papers

1. K. Dastouri, A. Molkhasi, “Pseudocomplements in free groups”, The 4th Seminar on Algebra and its Applications, August 9-11, 2016.
2. K. Dastouri, A. Iranmanesh, “Primes and degrees of Isaacs π -partial character”, 15th International Group Theory Conference of Iran, February 9-10, 2023.
3. K. Dastouri, A. Iranmanesh, “Some results of Isaacs π -partial character degrees”, 4th International Conference on Computational Algebra, Computational Number Theory and Applications, July 4-6, 2023.
4. K. Dastouri, A. Iranmanesh, “On monomial Isaacs π -partial characters of π -separable groups”, 7th Biennial International Group Theory Conference, August 7-11, 2023.
5. K. Dastouri, A. Iranmanesh, M. Ghasemi, “Groups whose all Isaacs π -partial characters are monomial”, 16th International Group Theory Conference of Iran, February 1-2, 2024.
6. K. Dastouri, A. Iranmanesh, “Representation theory of symmetric groups and some combinatorial results”, 12th Graph Theory and Algebraic Combinatorics, February 7-8, 2024.
7. K. Dastouri, A. Iranmanesh, “برخی نتایج در مورد نتایج درجات سرشت های مونولیتیک”, 55th Annual Iranian Mathematics Conference, August 14-16, 2024.
8. A. Iranmanesh, K. Dastouri, “ π -structure and π -characters”, 17th International Group Theory Conference of Iran, January 29-30, 2025.
9. K. Dastouri, “ π -Theory of Finite Groups in GAP,” GAP Days - Spring 2026, University of Porto, Portugal, 4th–8th May 2026.

RESEARCH INTERESTS

Representation Theory of Finite Groups: ordinary and modular cases
Finite Groups and Their Applications
Public-Key Cryptosystem Design: leveraging hard computational representation problems

TEACHING EXPERIENCE

Teaching Assistant	Tarbiat Modares University, Tehran, Iran <i>Courses:</i> Representation Theory of Finite Groups, Abstract Algebra Lecturer: Prof. Ali Iranmanesh	2020 – 2024
High School Teacher	Various High Schools, Iran Mathematics instructor for 7 years	2013 – 2020

COMPUTER SKILLS

GAP	Advanced
SageMath	Intermediate
Python (NumPy, TensorFlow, Keras)	Familiar
L ^A T _E X	Advanced
Microsoft Office	Advanced
Linux	Familiar

LANGUAGES

Persian Native
English Upper Intermediate (C1)
German Basic (A1)

REFERENCES

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Prof. Jiping Zhang

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Prof. Mohammad Reza Darafsheh

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Dr. Ali Rajaei

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