

CURRICULUM VITAE

Mostafa Einollahzadeh

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PERSONAL DATA

- Birth Date: June 15, 1987.
- Country of Citizenship: Iran.

RESEARCH INTERESTS

- Algebra: Algebraic Geometry, Commutative Algebra.
- Graph Theory and Combinatorics: Algebraic Graph Theory.

ACADEMIC BACKGROUND

- Ph.D. **Sharif University of Technology**, Tehran, Iran.
Doctor of Philosophy in Algebraic Geometry, September, 2017.
Title of Thesis: Tensor Categories Equipped with General Fiber Functors.
Cumulative GPA: 19.32 out of 20.
My Supervisor: Professor Amir Jafari.
- M.S. **Sharif University of Technology**, Tehran, Iran.
Master of Science in Mathematics, 2008-2009.
Title of Thesis: Systems of Rational Quadratic Forms.
Cumulative GPA: 19.68 out of 20.
My Supervisor: Professor Mohammad Gholamzadeh.
- B.S. **Sharif University of Technology**, Tehran, Iran.
Bachelor of Science in Mathematics, June, 2005-2008.
Cumulative GPA: 17.99 out of 20.

WORK EXPERIENCES

- Assistant Professor, Isfahan University of Technology, Isfahan, Iran, 2019-.

PUBLICATIONS and PREPRINTS

1. Einollahzadeh, M., & Nematollahi, M. A. (2024). A Short Proof of Haemers' Conjecture on the Seidel Energy of Graphs. *Linear Algebra and its Applications*.
2. Einollahzadeh, M. (2023). Minimum trace norm of real symmetric and Hermitian matrices with zero diagonal. arXiv preprint arXiv:2309.14958.
3. Einollahzadeh, M., & Nematollahi, M. A. (2022). An improved lower bound for the Seidel energy of trees. *Discrete Applied Mathematics*, 320, 381-386.
4. Einollahzadeh, M., & Karkhaneei, M. M. (2021). On the lower bound of the sum of the algebraic connectivity of a graph and its complement. *Journal of Combinatorial Theory, Series B*, 151, 235-249.
5. Akbari, S., Einollahzadeh, M., Karkhaneei, M. M., & Nematollahi, M. A. (2020). Proof of a conjecture on the Seidel energy of graphs. *European Journal of Combinatorics*, 86, 103078.
6. Jafari, A., & Einollahzadeh, M. (2018). Tannakian formalism for fiber functors over tensor categories. *Periodica Mathematica Hungarica*, 77(1), 1-26.

HONORS

- I won the **Silver Medal** in the “International Mathematical Olympiad”, when I was a high school student, 2005.
- Received the **First Prize** in “International Mathematics Competition For University Students”, for two years, 2006,2008.
- I won the **Gold Medal** in the “Mathematics Competition for Undergraduate University Students”. This Competition is held annually by the **Iranian Mathematical Society**, and the participants are the distinguished students from the universities throughout the country, 2006.
- Received the **First** place in the **Nationwide Entrance Examination** for the MS degree, in the field of mathematics, 2008.

TEACHING EXPERIENCES

1. **Graph Theory** (Isfahan University of Technology, 2023)
2. **Advanced Algebra** (Isfahan University of Technology, 2022)

3. **Algebraic Topology** (Isfahan University of Technology, 2019)
4. **Basic Abstract Algebra** (Sharif University of Technology, 2018)
5. **Introduction to Hyperbolic Geometry** (Sharif University of Technology, 2018)