SEPEHR HAJEBI

Curriculum Vitæ (May 31, 2024)

CONTACT

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EDUCATION

- PhD in Mathematics (Fall 2020 present)
 Combinatorics and Optimization, University of Waterloo
 Thesis: Foreshadowing the Grid Theorem for Induced Subgraphs
 Advisor: Sophie Spirkl
- BSc and MSc in Mathematics (Fall 2012 Spring 2019) Isfahan University of Technology, Isfahan, Iran

AWARDS

- 7. Sinclair Graduate Scholarship (2023 and 2024) Combinatorics and Optimization, University of Waterloo
- 6. Outstanding TA Recognition (2022)
 Combinatorics and Optimization, University of Waterloo
- 5. Invited visitor to KMS, KIAS and NIMS (2016) Funded by The Embassy of South Korea in Iran
- 4. Korean Mathematical Society Contest for University Students (2016) Seoul, South Korea Third Prize
- 3. International Mathematics Competition for University Students (2015 and 2016) Blagoevgrad, Bulgaria Third Prizes
- 2. Iranian Math Society Competition for University Students (2015 and 2016) Second and Third Prizes
- 1. Elite Student Award (2016 and 2018) Isfahan University of Technology

TALKS

- 8. Survey on induced subgraphs of graphs with large treewidth Barbados Graph Theory Workshop, Bellairs Research Institute (2024)
- 7. Treewidth, Erdős-Pósa and induced subgraphs [virtual] New York Combinatorics Seminar (2024)
- 6. Several Gyárfás-Sumner-type results for treewidth Graphs and Matroids Seminar, University of Waterloo (2023)
- 5. Hitting all maximum stable sets in P_5 -free graphs Graphs and Matroids Seminar, University of Waterloo (2023)

- 4. Forests in even-hole-free graphs of large treewidth
 Barbados Graph Theory Workshop, Bellairs Research Institute (2022)
- 3. Holes, hubs, and bounded treewidth [virtual] IBS Virtual Discrete Math Colloquium, Daejeon, South Korea (2022)
- 2. Bounded treewidth in hereditary graph classes Graphs and Matroids Seminar, University of Waterloo (2022)
- 1. Bounded treewidth in hereditary graph classes Seymour was 70 two years ago, ENS de Lyon, France (2022)

MENTORSHIP

University of Waterloo:

- Directed Reading Program (DRP) by the Women in Math (WiM) committee
 - Spring 2024 project: Non-constructive methods in combinatorics Mentees: Anna Henderson and Gioia De Leonardis
 - Fall 2023 project: Introduction to graph minor theory Mentees: Xinyue Fan and Lyncy Li
- Undergraduate Research Assistant Program (URA)
 - Spring 2023 project: Maximum transitive set in H-free tournaments Mentee: Yun Xing

TEACHING

TA at University of Waterloo:

- 10. CO342 Graph Theory (Spring 2023)
- 9. MATH138 Calculus II for honors of mathematics (Winter 2023)
- 8. MATH600 Mathematical software (Fall 2022)
- 7. CO456 Game theory (Fall 2022 and 2023)
- 6. CO380 Mathematical discovery and invention (Spring 2022)
- 5. MATH239 Introduction to combinatorics (Winter 2022)
- 4. CO255 Advanced optimization (Winter 2022)
- 3. CO250 Introduction to optimization (Fall 2021 and 2023; Winter 2023 and 2024; Spring 2024)
- 2. CO450/650 Graph theory (graduate) (Fall 2021)
- 1. CO351 Network-flow theory (Spring 2021)

TA at Isfahan University of Technology:

- 6. Computational complexity (graduate) (2019)
- 5. Elements of matrices and linear algebra (2018)
- 4. Applied linear algebra (for engineering) (2018)
- 3. Graph theory (2016)

- 2. Graph theory (graduate) (2014, 2017)
- 1. Elements of combinatorics (2014, 2016, 2017)

SERVICE

Refereeing for journals and conference proceedings:

- 7. International Mathematics Research Notices
- 6. Journal of Combinatorial Theory, Series B
- 5. European Journal of Combinatorics
- 4. Journal of Graph Theory
- 3. Electronic Journal of Combinatorics
- 2. European Conference on Combinatorics, Graph Theory and Applications
- 1. Workshop on Graphs