

Curriculum vitae

Meysam Alishahi

CONTACT INFORMATION

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PERSONAL DATA

Birth Date: March 21, 1982.

Country of Citizenship: Iran.

WORK EXPERIENCE

Assistant Professor,
School of Mathematical Sciences,
Shahrood University of Technology,
September 2010-Present

RESEARCH INTERESTS

Graph Coloring, Topological Combinatorics, Probabilistic methods, Algebraic graph theory, and their interconnections

h-index: Google scholar: 8 **Scopus:** 4

ORCID: <https://orcid.org/0000-0001-6588-8520>

EDUCATION

Shahid Beheshti University, Tehran, Iran.

Ph.D., Mathematics: Combinatorics, *June 2010*.

- Thesis Topic: *Some no-homomorphism theorems and graph colorings*
- Supervisor: Professor H. Hajiabolhassan
- GPA – 19.7 out of 20

Sharif University of Technology, Tehran, Iran.

M.S., Pure Mathematics, *September 2006*.

- Topic: *Defining Sets in Latin Squares*
- Supervisor: Professor E. S. Mahmoodian
- GPA – 17.56 out of 20

Shahrood University of Technology, Shahrood, Iran

B.S., Pure Mathematics, *July 2004*. GPA – 17.18 out of 20

VISITS

Sabbatical leave (during Ph.D.), *November-May 2010*.

- Department of Applied Mathematics and Computer Science, Technical University of Denmark
- Supervisor: Professor Carsten Thomassen

Short visit (one month), *2015*.

- Université Paris Est, CERMICS, 77455 Marne-la-Vallée CEDEX, France
- Collaborating with: Professor Frédéric Meunier

Short visit (one month), *2017*.

- Université Paris Est, CERMICS, 77455 Marne-la-Vallée CEDEX, France
- Collaborating with: Professor Frédéric Meunier

1. M. Alishahi and A. Taherkhani. On the random version of the Erdős matching conjecture. *Discrete applied mathematics*, To appear.
2. M. Alishahi and A. Taherkhani. Extremal G -free induced subgraphs of Kneser graphs. *Journal of Combinatorial Theory, Series A*, 159: 269 – 282, 2018
3. R. Abyazi Sani and M. Alishahi. A new lower bound for the chromatic number of general Kneser hypergraphs. *European Journal of Combinatorics*, 71:229 – 245, 2018
4. M. Alishahi and H. Hajiabolhassan. Altermatic number of categorical product of graphs. *Discrete Mathematics*, 341(5):1316 – 1324, 2018
5. M. Alishahi and H. Hajiabolhassan. A Generalization of Gale’s lemma. *J. Graph Theory*, 88(2):346 – 337, 2018.
6. R. Abyazi Sani, M. Alishahi, and A. Taherkhani. Coloring Properties of Categorical Product of General Kneser Hypergraphs. *Ars Mathematica Contemporanea*, 15(1):113 – 126, 2018
7. M. Alishahi and A. Taherkhani. Circular chromatic number of induced subgraphs of Kneser graphs. *Ars Mathematica Contemporanea*, 15(1):161 – 172, 2018.
8. M. Alishahi and H. Hajiabolhassan. Chromatic Number of Random Kneser Hypergraphs. *Journal of Combinatorial Theory, Series A*, 154: 1 – 20, 2018
9. M. Alishahi and F. Meunier. Fair splitting of colored paths. *Electron. J. Combin.*, 24(3): #P3, 41, 2017.
10. M. Alishahi and H. Hajiabolhassan. Chromatic number via Turán number. *Discrete Mathematics*, 340(10):2366 – 2377, 2017.
11. M. Alishahi, H. Hajiabolhassan, and F. Meunier. Strengthening topological colorful results for graphs. *European Journal of Combinatorics*, 64:27 – 44, 2017.
12. M. Alishahi. Colorful Subhypergraphs in Uniform Hypergraphs. *Electron. J. Combin.*, 24(1): #P1, 23, 2017.
13. M. Alishahi and H. Hajiabolhassan. On the chromatic number of general Kneser hypergraphs. *Journal of Combinatorial Theory, Series B*, 115:186 – 209, 2015.
14. M. Alishahi and A. Taherkhani. A note on chromatic sum. *Ars Combinatoria*, Volume CXVI: pp. 49-54, 2014.
15. M. Alishahi. Dynamic chromatic number of regular graphs. *Discrete Applied Mathematics*, 160(15):2098 – 2103, 2012.
16. M. Alishahi, A. Taherkhani, and C. Thomassen. Rainbow paths with prescribed ends. *Electronic Journal of Combinatorics*, 18(1), 2011.
17. M. Alishahi. On the dynamic coloring of graphs. *Discrete Appl. Math.*, 159(2-3):152–156, 2011.
18. M. Alishahi and H. Hajiabolhassan. Circular coloring and Mycielski construction. *Discrete Math.*, 310(10-11):1544–1550, 2010.
19. M. Alishahi, H. Hajiabolhassan, and A. Taherkhani. A generalization of the Erdős-Ko-Rado theorem. *Discrete Math.*, 310(1):188–191, 2010.

SUBMITTED
PAPERS

1. M. Alishahi and H. Hajiabolhassan. On Chromatic Number and Minimum Cut. *ArXiv e-prints*, arXiv:1407.8035v2, November 2015.
2. M. Alishahi and H. Hajiabolhassan. A Note on Altermatic Number. *ArXiv e-prints*, arXiv:1510.06932v1, October 2015.
3. M. Alishahi and H. Hajiabolhassan. On The Chromatic Number of Matching Graphs. *ArXiv e-prints*, arXiv:1507.08456v1, July 2015.

SELECTED TALKS

- *Hypergraphs coloring via Tucker lemma*. **Key speaker**, IPM Combinatorics and Computing Conference 2017 (IPMCCC 2017), Tehran, Iran.
- *Topological colorful results for uniform hypergraphs*. 2016 International Conference on Graph Theory, Combinatorics, and Applications, China.
- *Dynamic chromatic number of regular graphs*. ICTP/IPM Workshop and Conference in Combinatorics and Graph Theory, Trieste, Italy, 2012.

AWARDS

- Fifth prize winner in the International Mathematics Olympiad for Undergraduate University Students of Iran, 2004.
- The Bronze Medal in the Mathematics Competition for Undergraduate University Students of Iran, 2004.
- Received the 29th place in the Nationwide Entrance Examination for the MS degree (Iran), 2004.
- Graduated with rank 1 among B.Sc. Students in Pure Mathematics, Shahrood University of Technology, Shahrood, Iran.

TEACHING
EXPERIENCE

In Department of Mathematics, Shahrood university, 2010-Present

Graduate: Algorithms and complexity, Probabilistic method in combinatorics, Cryptography, Algebraic Graph Theory, Topological combinatorics, Graph theory and its Applications, Combinatorics.

Undergraduate: Graph theory, Principle in Combinatorics, Elementary Combinatorics, Discrete Mathematics, Calculus.