

Hamid Reza Daneshpajouh

Curriculum Vitae

Education

- 2013–present **Ph.D**, *Institute For Research In Fundamental Sciences*, Iran, Adviser: Prof. H. Hajiabolhassan.
GPA – 18.71
- 2008–2011 **Masters of Science In Mathematics**, *University of Tehran*, Iran, Adviser: F. Shirazi.
GPA – 18.14
- 2003–2008 **Bachelor of Science In Mathematics**, *K. N. Toosi University of Technology*, Iran.

Special Program

- 2016–present **Advanced Combinatorics Program**, *Moscow Institute Of Physics and Technology*, Moscow, Russia.
- 2010–2011 **Non Commutative Geometry**, *Institute For Research In Fundamental Sciences*, Tehran, Iran.

Research Interest

I am mostly interested in topological combinatorics, discrete geometry, and combinatorics.

Awards and Honors

- 2015-present Research Grant, awarded by National Elites Foundation.
- 2012 Ranked 6th in the National University Entrance Exam for PhD in Mathematics.
- 2010 IPM school Fellowship.
- 2008 Silver Medals, 32th Iranian National Mathematics Competition for University Students.
- 2008 Citation, K. N. Toosi university of Technology.

Teaching and Working Experience

- 2008-2011 Mathematical Olympiad Instructor, K. N. Toosi University of Technology.
- 2010-2012 Mathematical Olympiad Instructor, Allameh-heli 11 high school, Farzanegan high schools, Mofid high school ...

Published Papers

"A New Proof of \aleph_0 -Resolvability of a Metric Space Without an Isolated Point.", American Mathematical Monthly 122.9 (2015): 897-898.

"An interesting proof of the nonexistence of a continuous bijection between \mathbb{R}^n and \mathbb{R}^2 for $n \neq 2$.", with Hamed Daneshpajouh, and Fereshte Malek, Involve, a Journal of Mathematics 7.2 (2013): 125-127.

Preprints

New construction of graphs with high chromatic number and small clique. arXiv preprint arXiv:1702.01390 (2017).(under referee)

A topological lower bound for the chromatic number of a special family of graphs. arXiv preprint arXiv:1611.06974 (2016).(under referee)

Generalized neighborhood complex, and graph coloring. (phase of writing)

A metric to measure the distance or similarity between graphs, with Hamed Daneshpajouh and Farzad Didehvar (phase of writing)

Books

Olympiad of high school 1st , 2nd and 3rd grade of secondary school in the field of mathematics.With M. T. Tanjani, O. Mazaheri-, S. Taheri-, M. Etesami far, M. R. Gharib dost, S. Khan Khajeh, P Ramzi, A. Iranian, M. Mir Rafie.Publisher: Kanon Farhangi Amoozesh Ghalam Chi, ISBN: 978-964-509-405-6

Olympiad of 2nd grades of high school in the field of mathematics. With M. T. Tanjani, O. Mazaheri, S. Taheri, M. Etesami far, M. R. Gharib dost,S. Khan Khajeh, A. Iranian, P. Ramzi, M. Mir Rafie Publisher: Kanon Farhangi Amoozesh Ghalam Chi, ISBN: 978-964-509-390-5.

Olympiad of high school in the field of computer, With M. T. Tanjani, M. Etesami far, M. R. Gharib dost, S. Taheri, P. Esfandyar.Publisher: Kanon Farhangi Amoozesh Ghalam Chi, ISBN:978-964-509-387-5 .

Conferences

- 2017 First Russian-Hungarian Workshop on Discrete Mathematics, Moscow, Russia , April 21 - April 23, 2017.
- 2015 The Fifth German-Russian Week of the Young Researcher on Discrete Geometry, Moscow, Russia , September 7 - September 11, 2015.
- 2015 IPM Combinatorics and Computing Conference, Tehran, Iran, April 29-30, 2015.
- 2014 Frontiers in Mathematical Sciences, 3rd Conference, Tehran, Iran, 29 Dec 2014- 1 Jan 2015.

Computer skills

PYTHON, SAGE, \LaTeX , Linux.