

Emad Zahedi

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PRESENT ADDRESS

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OBJECTIVE

Seeking a full-time job as a programmer, developer or analyst.

EDUCATION

- *PhD of Science Michigan State University 2012-17, (Computer Science dual with math).*
- *PhD of Science Michigan State University 2011-17, (Mathematics).*
- *Master of Science Michigan State University 2013-15, (Computer Science).*
- *Master of Science University of Tehran 2008-11, (Pure mathematics).*
- *Bachelor of Science South Tehran Azad University 2006-8, (Applied mathematics).*
- *Advanced Diploma, Rodehen Islamic Azad University 2004-6, (Education mathematics).*

Master's thesis in mathematics (UOT):

Some problems in character theory of finite groups.

Doctoral dissertation Mathematics and Computer Science (MSU):

Distance preserving graphs.

BACKGROUND

Design Algorithms and Algorithm graph, Social Network Analysis, Data Mining, Pattern Recognition, Computer Vision, Evolutionary algorithms, Advance Operating System, Mathematical Analysis, Real Analysis, Complex Variable, Numerical Analysis, ODE and PDE, Chaos Dynamic, Manifold Geometry, Knot Theory, Algebra, Linear Algebra, Group Theory, Permutation Group, Character Theory, Discrete Mathematics, Number Theory, Combinatorics, Graph Theory.

LANGUAGES

Persian
English
Gilaki

Chinese
Arabic

C++
Python

Emad Zahedi/2

HONORS AND AWARDS

- Ranked 2nd in entrance exam test for undergraduate degree, 2005.
- Member of Iranian Mathematical Society, 2002 – 4.
- Ranked 1st in interior mathematics Olympiad exam in province of Islamic Azad Universities of Tehran, 2006.
- Awarded as superior student in the second Math seminar in Azad University, 2010.
- Graduate Teaching Assistant award, in department of mathematics at Michigan State University on 25th of April, 2014.
- Best student paper award for the paper titled, Distance Preserving Graphs, paper submitted for the 45th Conference on Combinatorics, Graph Theory, and Computing at Florida Atlantic University, 2014.
- Travel award: from the graduate school at MSU \$350.
- Travel award: from the cse department at MSU \$150.

WORK EXPERIENCES

- Teaching assistant of Introduction finite groups, Algebra 1, University of Tehran.
- Teaching assistant of Calc.I, MTH 124, University of Tehran.
- Teaching assistant of Calc.I, MTH 124, Michigan State University.
- Teaching assistant of Calc.II, MTH 133, University of Tehran.
- Instructor of the course Calc.III, MTH 234, Michigan State University.
- Instructor of the course Calc.IV, MTH 235, Michigan State University.
- Teaching assistant of Discrete mathematics in Computer Science, CSE 260, Michigan State University.
- Attending in conference “Group Theory” in Ferdousi-mashahad University.
- Attending in conference “45th Conference on Combinatorics, Graph Theory, and Computing” at Florida Atlantic University, 2014.
- Attending workshop 1st Lake Michigan Workshop on “Combinatorics and Graph Theory” March 2014.

Emad Zahedi/3

PUBLICATIONS

a) Papers

- 1) Powers of irreducible character (with M. R. Darafsheh, and M.L Lewis), **preprint** .
- 2) Distance preserving graphs and graph products (with B. Sagan and M. H. Khalifeh), **Ars Combin**, accepted.
- 3) Distance preserving graphs, **ArXiv** .
- 4) An Evolutionary Framework for Analyzing the Distance Preserving Property of Weighted Graphs (with M. Mirmomeni and A-H. Esfahanian.), **under review**.
- 5) On Distance Preserving and Sequentially Distance Preserving Graphs (with J. P. Smith), **Annals of Combinatorics**, Submitted.
- 6) Lexical Clusters and Distance Preserving Property, **under review**.
- 7) Existence of isometric subgraphs in terms of minimum degree (with M. H. Khalifeh), **under review**.

b) Oral presentations

- 1) **E. Zahedi** , M.H. Khalifeh , H. Faramarzi, A.R. Ashrafi.
Automorphism group of a family of Dendrimer Nanostars (International ASET , ACNFA2010 Ottawa-Canada).
- 2) H. Faramarzi, M.H. Khalifeh, H. Yousefi-Azari, **E.Zahedi**
The Hosoya and Merrifield-Simmons Numbers of Water-Soluble Polyaryl Ether Dendrimer Nanostars(International ASET , ACNFA2010 Ottawa-Canada).
- 3) **Emad Zahedi**
Distance Preserving Graphs, (45th Conference on Combinatorics, Graph Theory, and Computing at Florida Atlantic University, 2014).
- 4) M. H. Khalifeh, Bruce E Sagan and **Emad Zahedi**
Distance Preserving Graphs, (AMS Sectional Meeting AMS Special Session, 2015).

c) Book

- Calculus (under preparation).*