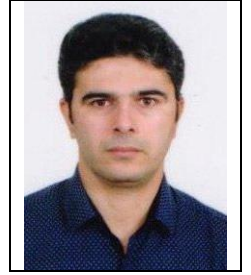




## CURRICULUM VITAE

**Name:** Majid Arezoomand  
**Address:** 7431716137, Lar, Fars, Iran  
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**E-mail:** arezoomand@lar.ac.ir, arezoomandmajid@gmail.com  
**Date of birth:** 22 May 1983  
**Marital status:** Married



### **Education/Qualifications**

- 2001-2005 **B. Sc. in Mathematics**, School of Mathematics, Statistics and Computer Sciences, Department of Mathematics, University of Tehran, Tehran, Iran.  
*Project topic:* Study on sporadic groups.  
(Supervisor: Prof. Mohammad Reza Darafsheh)
- 2005-2007 **M. Sc. in Mathematics**, Department of Mathematical Sciences, Isfahan University of Technology, Isfahan, Iran  
*Thesis topic:* On the linear representations of symmetry groups of nanotubes  
(Supervisor: Prof. Bijan Taeri)
- 2010-2015 **Ph. D in Mathematics**, Department of Mathematical Sciences, Isfahan University of Technology, Isfahan, Iran  
*Thesis topic:* n-Cayley digraphs on over finite groups.  
(Supervisor: Prof. Bijan Taeri)
- 2016-2017 **Post-Doctoral in Mathematics**, Department of Mathematics, Faculty of Sciences, Isfahan University, Isfahan, Iran  
(Supervisor: Prof. Alireza Abdollahi)

### **Employment to Date/Work Experience**

2017-present University of Larestan  
Post: *Assistant Professor*

**Languages** English: good.

**Other Skills** Computer literate: Windows applications. Softwares: GAP, Mathematica. Latex.

### **Publications**

#### **- Journal Papers**

**2019**

- **M. Arezoomand**, A. Abdollahi and P. Spiga, *On problems concerning fixed-point-free permutations and on the polycirculant conjecture-a survey*, Trans Comb., 8(1) (2019) 15-4.

**2018**

- **M. Arezoomand** and B. Taeri, *Finite groups admitting a connected cubic integral bi-Cayley graph*,

Alg. Struc. Appl., accepted.

- **M. Arezoomand**, *Non-normal  $p$ -bicirculants,  $p$  a prime*, Matematicki Vesnik, 70(4) (2018), 338-343.
- A. Abdollahi and **M. Arezoomand**, *Finite nilpotent groups that coincide with their 2-closures in all of their faithful permutation representations*, J. Algebra Appl., 16(11) 2018, 1-11.

**2016**



- **M. Arezoomand** and B. Taeri, *Which elements of a finite group are non-vanishing*, Bull. Iranian Math. Soc., 42(5) (2016) 1097-1106.
  - **M. Arezoomand** and B. Taeri, *Finite BCI-groups are solvable*, Int. J. Group Theory, 5(2) (2016) 1-6.
- 2015**
- **M. Arezoomand** and B. Taeri, *A classification of finite groups with integral bi-Cayley graphs*, Trans. Comb., 4(4) (2015) 55-61.
  - **M. Arezoomand** and B. Taeri, *On the normality of 2-Cayley digraphs*, Discrete Math. 338 (2015) 41-47.
  - **M. Arezoomand** and B. Taeri, *Isomorphisms of finite semi-Cayley graphs*, Acta Math. Sin. Eng. Ser., 31(4) (2015) 715-730.
- 2014**
- **M. Arezoomand** and B. Taeri, *Schultz and Modified Schultz Indices of Generalized Hierarchical Product of Graphs*, Topics in Chemical Graph Theory, Univ. Kragujevac, Kragujevac, 2014, pp. 55-68.
- 2013**
- **M. Arezoomand** and B. Taeri, *On the characteristic polynomial of n-Cayley digraphs*, Electronic J. Combin., 20(3) (2013),#P57, 1-14.
  - **M. Arezoomand** and B. Taeri, *Zagreb Indices of the Generalized Hierarchical Product of Graphs*, Match Commun. Math. Comput. Chem. 69(2013) 131-140.
- 2012**
- M. Taghizadeh, **M. Arezoomand** and H. Gazor, *Computation of full symmetry group of C4C8(R) nanotubes using a mathematical model*, Optoelectron. Adv. Mat. 6 (2012) 1046-1048.
  - M. Taghizadeh, **M. Arezoomand** and H. Gazor, *A new method for computing distance-based topological indices of C4C8(R) nanotubes*, Journal of Optoelectronic and Biomedical Materials. 4(4) (2012) 65-69.
- 2011**
- **M. Arezoomand** and B. Taeri, *A new method for computing the Wiener index of polyhex nanotorus*, J. Comp. Theoer. NanoSci. 8(1) (2011) 2350-2355.
  - **M. Arezoomand**, *Random walks on infinite C4C8(S) net, nanotube and nanotori*, Match Commun. Math. Comput. Chem. 65 (2011) 231-240.
  - **M. Arezoomand** and B. Taeri, *On the distance-based topological indices of polyhex nanotori*, Match Commun. Math. Comput. Chem 65(2011) 241-248.
- 2010**
- **M. Arezoomand** and B. Taeri, *Applications of generalized hierarchical product of graphs in computing the szeged index of chemical graphs*, Match Commun. Math. Comput. Chem 65(2010) 591-602.
- 2009**
- **M. Arezoomand** and B. Taeri, *The Full Non-rigid Group Theory of cis-tetraamminedichlorocobalt (III)*, Asian J. Chem. 21 (2) (2009), 869-878.
  - **M. Arezoomand** and B. Taeri, *The full symmetry and irreducible representations of nanotori*, Acta Cryst. A65 (2009) 249-252.
  - **M. Arezoomand** and B. Taeri, *Full Non-Rigid Group of Di-mu-oxo-bis(tetraamine manganese(II)) as a Wreath Product*, MATCH Commun. Math. Comput. Chem. 62 (2009) 275-284.
  - **M. Arezoomand** and B. Taeri, *A mathematical model for TUC4C8(S) nanotubes and their symmetry groups*, J. Geom. Phys. 59 (2009)1168-1174.
  - **M. Arezoomand** and B. Taeri, *Full non-rigid group of 2,3,5,6-Tetra-methylepyrazine as wreath product*, J. Appl. Math. Informatics 27(2009), 915 - 931.
  - **M. Arezoomand**, *Energy and Laplacian spectrum of C4C8(S) nanotori and nanotube*, Digest journal of nanomaterials and biostructures, 4(6)(2009) 899-905.
  - **M. Arezoomand**, *On the distance based topological indices of fullerene and fullerenyl anions having dendrimer units*, Digest journal of nanomaterials and biostructures, 4(4) (2009) 713-722.



2008

- **M. Arezoomand** and B. Taeri, *The Full Non-Rigid Group Theory for TBA (Tert-Butyl Alcohol)* J. Iranian Chem. Soc. 5 (3) (2008) 514-518.

#### - Conference Papers

2019

- **M. Arezoomand**, M. Aminian and M. A. Iranmanesh, *Recent trends and future directions on isomorphisms of Cayley graphs*, 11<sup>th</sup> Iranian Group Theory Conference, 30-31 Jan. Yazd, Iran, 2019.
- M. Ghasemi and **M. Arezoomand**, *Normality of one-matching semi-Cayley graphs*, International Conference on Recent Achievements in Mathematical Sciences, 14-18 Jan, Yazd, Iran, 2019.
- **M. Arezoomand** and M. A. Iranmanesh, *On the number of walks on semi-Cayley graphs*, International Conference on Recent Achievements in Mathematical Sciences, 14-18 Jan, Yazd, Iran, 2019.

2018

- **M. Arezoomand**, *On the applications of representation theory in computing of eigenvalues of Graphs having semiregular subgroup of automorphisms*, 3th Conference on Computational Group Theory, Number Theory and Applications, 12-14 Dec. Kashan, Iran.
- M. A. Iranmanesh and **M. Arezoomand**, *On the isomorphisms of bi- Cayley graphs*, Graphs, groups, and more: celebrating Brian Alspachs 80th and Dragan Marusic 65th birthdays, Koper, Slovenia, May 28-June 1, 2018.
- **M. Arezoomand**, *On the eigenvalues of quasi-abelian n-Cayley graphs*, Workshop on Graph Spectra, Combinatorics and Optimization, Aveiro, Portugal, 2018.

2017

- **M. Arezoomand** and A. R. Abdollahi, *Which group theoretic properties of a permutation group are inherited by its closures?*, 10th Iranian Group Theory Conference, Tehran, Iran, 2017.
- **M. Arezoomand** and A. R. Ashra\_, *On the spectrum of 2-type bi-circulants*, 10th Graph Theory and Algebraic Combinatorics Conference, Yazd, Iran, 2017
- **M. Arezoomand** and A. R. Abdollahi, *Totally 2-closed finite groups*, Caucasian Mathematics Conference II, Turkey, 2017

2013

- **M. Arezoomand** and B. Taeri, *Eigenvalues and eigenvectors of finite n-Cayley digraphs over arbitrary groups*, Ph.D summer school in Discrete Mathematics, Rogla, Slovenia, 2013.
- **M. Arezoomand** and B. Taeri, *Bipartite semi-Cayley graphs over finite simple non-abelian groups*, 6th Algebraic Combinatorics conference of Iran, Univesity of Mazandaran, Babolsar, Iran, 2013.
- **M. Arezoomand** and B. Taeri, *On the semiregular actions and linear representation theory of finite groups*, 23th Iranian Algebra Seminar, Faculty of Computer and Mathematics, Khansar, Iran, 2013.

#### Awards and honours

- Top researcher of University of Larestan, 2017.
- Reviewer of American Mathematical Reviews, since March of 2014.
- Non-resident researcher of School of Mathematics, IPM (Institute for research in fundamental sciences), 2016-2017.
- Top thesis and top graduate among all 2015 graduates of Isfahan University of Technology.
- First grade Phd student among all 2010 Ph.D students of department of mathematical sciences of Isfahan University of technology.
- Best researcher among all of invited teachers of Majlesi branch of Islamic Azad University (2009).
- Selecting as Top 25 hottest articles of Journal of Geometry and Physic July to September 2009.
- Financial support of M. Sc. thesis by Iranian nanotechnology initiative council (2007).

#### Projects



- Symmetry Groups and structural properties of the graph of  $C_4C_8$  (nanotubes and nanotori), Islamic Azad University, Majlesi branch, 2009-2010.
- Which finite groups are  $BCI$ -groups, School of Mathematics, IPM, since 2016.
- On the polycirculant conjecture, University of Isfahan, 2016-2017.

#### **Invited Speaker of**

The Third Conference on Computational Group Theory, Computational Number Theory and Applications, University of Kashan, 21–23 Azar 1397 (12–14 December 2018).

#### **Referee for**

- Turkish Journal of Mathematics
- Journal of Discrete Mathematics
- International Journal of Group Theory
- Discrete Mathematics, Algorithms and Applications
- Australasian Journal of Combinatorics
- Algebraic Structures and Their Applications
- AKCE International Journal of Graphs and Combinatorics

#### **References**

##### **Bijan Taeri**

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