

CURRICULUM VITAE

MASOUD ARIANNEJAD

Department of Mathematics
University of Zanjan, Zanjan, IRAN
arian@znu.ac.ir; m.ariannejad@gmail.com; m_ariannejad@yahoo.com



1 Personal Information

- Name and Nationality: Masoud Ariannejad, Iranian.
- Date of birth and Marital status : 23/09/1958, Married, 1 child.

2 Education

- **Ph.D., 1996**, Department of Mathematical Sciences, Sharif University of Technology, Tehran, Iran.
- **Ph.D. Thesis:** On Additive Commutators and Matrix Valuations in Division Rings.
- **Ph.D. Supervisor:** Professor M. Mahdavi-Hezavehi.
- **M.Sc., 1988**, Department of Mathematics, University of Tehran, Tehran, Iran. Thesis: On the existence of various supports sizes in some BIB-designs. Supervisor: Professor G.B. Khosrovshahi.
- **B.Sc., 1986**, Department of Mathematics, Shahid Beheshti University, Tehran, Iran.

3 Academic Positions

- **2016-present**, Professor, Department of Mathematics, University of Zanjan, Zanjan, Iran.
- **2007-2016**, Associate Professor, Department of Mathematics, University of Zanjan, Zanjan, Iran.
- **1998-2006**, Assistant Professor, Department of Mathematics, University of Zanjan, Zanjan, Iran.
- **1996-1998**, Assistant Professor, Department of Statistics and Mathematics, Allameh Tabatabaie University, Tehran, Iran.
- **1988-1991**, Part time Instructor in diverse Universities in Teharn, Iran.
- **1984-1988**, Teacher in high school, Tehran, Iran.

4 Research Interests

- Non-commutative Algebra, Ring Theory,
- Combinatorics (Design theory and Graph Theory),
- General and Philosophical Aspects of Mathematics.

5 Publications(papers)

- *An Alternative Proof for the Extension Theorem of Matrix Valuation*, M. Ariannejad, Journal of Mathematics and Computer Sciences, 9:2(1996)149-152.
- *Finite Simple Field Extension*, M. Arian-Nejad, Scientia Iranica, 4:1(1997)57-59.
- *Additive Commutator Group in Division Rings*, S. Akbari, M. Ariannejad, M. L. Mehrabbadi, Results in Mathematics, 33(1998) 9-21.
- *Some Studies on Additive Commutator Group in Division Rings*, M. Ariannejad, Bulletin of the Iranian Mathematical Society, 26:1(2000) 1-6.
- *A Special Missing Case in Triple Systems*, M. Ariannejad, International Journal of Sciences and Technology of the University of Khashan, 1:2(2000)1-4.
- *Left Artinian Algebraic Algebras*, S. Akbari, M. Ariannejad, Algebra Colloquium, 8:4(2001) 463-470.
- *Notes on Whitehead Space of an Algebra*, M. Ariannejad, International Journal of Mathematics and Mathematical Sciences, 31:8(2002) 509-512.
- *Matrix Valuation Pseudo Ring*, M. Ariannejad, Journal of Sciences, 13:4(2002) 357-362.
- *Notes on the Structure of Support in BIB Designs*, M. Ariannejad and M. Emami, Australasian Journal of Combinatorics, 32(2005) 313-322.
- *Notes on the Support of t -Designs*, Ariannejad and M. Emami, Ars Combinatoria, 104(2012) 333-339.
- *Notes on Lie Ideals of Simple Artinian Rings*, M. Ariannejad, M. Emami, Journal of Algebra and Its Applications, 12:7(2013) DOI: 10.1142/S0219498813500382.

- *On the Number of Cliques and Cycles in Graphs*, M. Ariannejad, M. Emami, Transactions On Combinatorics, 2:2(2013) 27-33.
- *Frobenius Kernel and Wedderburn's Little Theorem*, M. Amiri, M. Ariannejad, Bulletin of the Iranian Mathematical Society, 40:4 (2014) 961-965.
- *Vector Space Generated by the Multiplicative Commutators of a Division Ring*, M. Aghabali, S. Akbari, M. Ariannejad, A. Madadi, Journal of Algebra and its Applications, 12, 1350043 (2013) DOI: 10.1142/S0219498813500436.
- *A New Proof of Cayleys Formula for Labeled Spanning Trees*, M. Ariannejad, M. Emami Electronic Notes in Discrete Mathematics, 45 (2014) 99-102.
- *Invariance conditions on substructures of division rings*, M. Aghabali, M. Amiri. M. Ariannejad and A. Madadi, Journal of Algebra and Its Applications Vol. 15, No. 4 (2016) 1650058, DOI: 10.1142/S0219498816500584.
- *Conditions on Lie ideals in rings*, M. Aghabali, M. Amiri. M. Ariannejad and A. Madadi, Journal of Algebra and Its Applications Vol. 15, No. 5 (2016) 1650094, DOI: 10.1142/S0219498816500948.
- *A graph theoretical equivalence for AmitsurLevitzki theorem*, M. Ariannejad, Linear and Multilinear Algebra, 64:12 (2016) 2486-2490.
- *Permanents of matrices over roots of unit*, S. Akbari, M. Ariannejad and Z. Tajfrouz, Linear and Multilinear Algebra, 64:9 (2016) 1769-1775.
- *Fully indecomposable and nearly decomposable graphs*, M. Aghabali, S. Akbari, M. Ariannejad and Z. Tajfrouz, Contributions to Discrete Mathematics, 11:2 (2017) 1-8.
- *Some notes on Lie ideals in division rings*, M. Aghabali, M. Ariannejad, A. Madadi, Journal of Algebra and Its Applications, 2017, DOI: 10.1142/S0219498818500494.
- *Tree robustness of a graph*, M. Ariannejad, R. Tusserkani, Linear and Multilinear Algebra, 2017, DOI: 10.1080/03081087.2017.1370687.
- *Finite unitary rings in which all Sylow subgroups of the group of units are cyclic*, M. Amiri, M. Ariannejad, Bulletin of the Australian Mathematical Society, 99:3 (2019) 403-412.
- *Finite unitary rings in which every subring is commutative, are commutative*, M. Amiri, M. Ariannejad, Journal of Algebra and its Applications, 20:8 (2021) 2150152 1-7.

6 Publications (Expository persian articles)

- *Regulations for the promotion of academic staff and basic sciences*, The Bulletin of Higher Education, 2-16 (2005) 19-24.
- *Dar Jostejoye Ahle Deli*, Journal of Akhbar, Newsletter of Institute for Research in Fundamental Sciences(IPM), 61 (2011) 16-17.
- *Championship sport, Championship science, Comparison in efficiency and expectation from each*, Journal of Popularization of Science, 4 (2013) 65-71.
- *Diversity or sameness in curriculum and educational planning*, Journal of Popularization of Science, 2 (2017) 31-45.
- *Ethical Issues in Sciences and Scientists*, Journal of Science Cultivation, 4-2 (2014) 118-123.
- *Philosophical Approachs in Mathematics Education*, Farhang Va Andishe-ye Riyazi, 57 (2014) 29-42.

- Childeren, Mathematics and Philosophy, Journal of Mathematics and Society, 3 (2016) 1-5.
- Teaching and learning, pamphlet teaching and pamphlet reading, a reflection on the experience of mathematics education, Journal of Mathematics and Society, 4 (2019) 39-47.
- Scientific Development, National Development, Quarterly review of basic sciences, Th academy of science, 6 (2023) 7-12.
- A review on Behzad book, Quarterly review of basic sciences of the Academy of Science, 4 (2022) 172-178.
- The Scope of Required Entries to Compile the History of Contemporary Iranian Mathematics, Quarterly review of basic sciences of the Academy of Science, 1 (2021) 37-42.
- Half a century of fruitful effort, Letter of the Academy of Science, 6 (2019) 153-167.
- Ethic and Elite, Letter of the Academy of Science, 5 (2018) 11-19.
- Deregulation of Faculty Promotion Regulation, Letter of the Academy of Science, 5 (2017) 111-121.
- More than 50 expository articles, in a variety of iranain journals about scientific and mathematical general issues most of them in Newsletter of the Iranain Mathematical Society, Nos.: 85,87,90,92,93,94,96,98,100,125,127, . . . ,145,146,147,149,150 (2000-2017), Gahnameh Reports (IMS), 9, 2002 and some diverse analytic scientific articles in public daily newspapers and news sites.

7 Publications(Books)

- In search of Mathematics (in Persian), University of Zanjan press, Zanjan, Iran, 2016.

8 Refereed Conference Papers

- More than 30 Papers presented orally at some of the international mathematical conferences sponsored by the Iranian Mathematical Society through the years 1996-2017.
- Notes on the Support of t-Designs, 22nd British Combinatorial Conference, University of St Andrews, 2009.
- Lie Structure In Division Algebras, 3rd International Conference of Baku State University on Pure & Applied Mathematics, Republic of Azerbyjan, Baku, 2002.
- An Alternative Proof for the Extension Theorem of Matrix Valuation, 2nd joint workshop of French and Iran on Noncommutative Algebra, IPM, 1996, Iran.
- Philosophical Approachs in Teaching Advanced Pure Mathematics, Challenges of Mathematical Education, An American and Iranian Discussion, University of California, Irvine, January 27-29, 2014.

9 Awards

- Iranian Mathematical Society Shafieiha Prize winner (2019).
The prize is given every two years for the best persian mathemtics writers, translators or editors.

10 Organization and Committee

- Scientific and organizing committee member, International seminar on applied mathematics, University of Zanjan, 2000.
- Scientific and organizing committee member, 38th annual iranian mathematics conference, University of Zanjan, 2007.
- 2001-2005, Editorial board, Farhang va Andishehe Riyazi, Expository mathematics journal, Iranain Mathematical Society.
- 2003-2005, 2012- 2015, An executive committee member of the Iranian Mathematical Society.
- 2003-2005, Editorial board of the Newsletter of the Iranian Mathematical Society.
- 2014-2019, Chief Editor of the Newsletter of the Iranian Mathematical Society.
- 2020 - Now, Editorial board of Quarterly review of basic sciences of the Academy of Science.
- 2000-2002, Designer and organizer, 3 summer school for high school students.
- 2003-2005, National committee member, Mathematics Awareness Week.

11 Visit

- Visiting Researcher, University of California at SB, sponsor Professor A. Yaqub, 1996, April-August.
- Invited Speaker, Baku State University, Republic of Azerbyjan, International Conference on Pure and Applied Mathematics, 2002.
- International Visitor Leadership Scientific Program, Baltimore Conference, North West University & UCLA (3-31 Jan., 2014).

12 Teaching Experience

- **1996-present**, Courses taught:
 - Calculus (in 3 levels I, II & III),
 - Abstract Algebra (in 3 levels I, II & III),
 - Mathematical Logic,
 - Cryptography (undergraduate and graduate),
 - Algebraic Topology (undergraduate and graduate),
 - Advanced Algebra (graduate),
 - Ring Theory (graduate),
 - Noncommutative Algebra (graduate).
 - Number Theory.
 - Differential Equations.
 - General Topology.
 - Linear Algebra.
 - History of Mathematics.
 - Graph Theory.
 - Game theory.

13 Work Experiences

- **2000-2002**, Research vice chair of the Faculty of Sciences, University of Zanjan.
- **2003- 2005**, Chair of the Department of Mathematics, University of Zanjan.
- **1984-1986**, Vice chair of a high school, Teharn, Iran.