

CURRICULUM VITAE

MOJGAN EMAMI

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1 Personal Information

- Name and Nationality : Mojgan Emami, Female, Iranian.
- Date of birth and Marital status : 16/08/1965, Married, 1 child.

2 Education

- **Ph.D., 2001**, Department of Mathematical Sciences, University of Tarbiat Modarress, Tehran, Iran.
- **Ph.D. Thesis:** Trades and Codes, Supervisor: Professor G.B. Khosrovshahi.
- **M.Sc., 1994**, Department of Mathematics, University of Tehran, Tehran, Iran. Thesis: Cyclic Designs, Supervisor: Professor G.B. Khosrovshahi.
- **B.Sc., 1988**, Department of Mathematics, University of Tehran, Tehran, Iran.

3 Academic Positions

- **2014-present**, Associate Professor, Department of Mathematics, University of Zanjan, Zanjan, Iran.
- **2001-2014**, Assistant Professor, Department of Mathematics, University of Zanjan, Zanjan, Iran.
- **1988-1995**, Teacher in high schools, Tehran, Iran.

4 Research Interests

- Combinatorics (Coding Theory, Design Theory and Graph Theory)

5 Publications-Papers

- *Some Designs of Small Order and their Codes*, M. Emami, G.B. Khosrovshahi and Ch. Maysoori, The Journal of Combinatorial Mathematics and Combinatorial Computing, 43(2002) 101-117.
- *Notes on the Structure of Support in BIB Designs*, M. Ariannejad and M. Emami, Australasian Journal of Combinatorics, 32(2005) 313-322.
- *Some New Large Sets of t -Designs*, M. Emami, O. Naserian, Discrete Mathematics, 310(2010) 1629-1632.
- *Some Optimal Codes from Designs*, M. Emami and Ch. Maysoori, Bulletin of the Iranian Mathematical Society, 37:3(2011) 109-115.
- *Notes on the Support of t -Designs*, M. 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.
- *On the number of mutually disjoint cyclic designs*, M. Emami, O. Naserian, Transaction on Combinatorics, 3-1 (2014) 7-13.
- *A New Proof of Cayleys Formula for Labeled Spanning Trees*, M. Ariannejad, M. Emami, Electronic Notes in Discreet Mathematics, 45(2014) 99-102.
- *A fimily of Large set of Size 9*, M. Emami, O. Naserian, Bulletin of Iranian Mathematical Society, 40:3 (2014) 737-749.
- *Optimal Linear Codes Over $GF(7)$ and $GF(11)$ with Dimension 3*, M. Emami, L. Pedram, Iranian Journal of Mathematical Sciences and Informatics, Tarbiat Modaress University, 10:1 (2015) 11-22.
- *A family of t -regular self-complementary k -hypergraphs*, M. Ariannejad, M. Emami, O. Naserian, Transaction on Combinatorics, 6:1 (2017) 39-46.
- *Some Infinite Families of t -Regular Self Complementary k -Hypergraphs*, M. Emami, O. Naserian, Bulletin of the Iranian Mathematical Society, 1:1 (2018) 1-12.
- *New Large set of t -Designs from t -homogenous Groups*, Discreet Mathematics Algorithms and Applications, 1:1 (2018) 1-6.

6 Publications-Book

- *Construction Methods of Hadamards Matrices*, University of Zanjan Press, 2014 (Persian).

7 Refereed Conference Papers

- 5 Papers presented orally at some of the international mathematical conferences sponsored by the Iranian Mathematical Society through the years 2005-2011.
- Notes on the Support of t-Designs, (joint work with M. Ariannejad) 22nd British Combinatorial Conference, University of St Andrews, 2009.
- Optimal Codes from Designs, 3rd International Conference of Baku State University on Pure & Applied Mathematics, Republic of Azerbyjan, Baku, 2002.

8 Organization, Visit and Work Experience

- Scientific committee member, 38th annual iranian mathematics conference, University of Zanjan, 2007.
- Invited Speaker, Baku State University, Republic of Azerbyjan, International Conference on Pure and Applied Mathematics, 2002.
- 2006- 2008, Chair of the Department of Mathematics, University of Zanjan.

9 Teaching Experience

- **2001-present**, Assistant & Associate Professor, University of Zanjan, Zanjan, Iran.

Topics taught:

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| ◦ Calculus | ◦ Coding Theory | ◦ Graph Theory |
| ◦ Linear Algebra | ◦ Combinatorics | |