Curriculum Vitae

Personal Information

Name: **Mahfouz**
Surname: **Rostamzadeh**

Gender: Male
Date of Birth: September 16, 1985
Place of Birth: Uraman Takht, Kurdistan, Iran

Official email: m.rostamzadeh@math.iut.ac.ir   ← *(I prefer to use my official email address)*
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Educations

- **Diploma in Mathematics and Physics Discipline (1999-2002)**

- **BSc in Applied Mathematics at University of Tabriz, Tabriz, Iran (2003-2006)**

- **MSc in Pure Mathematics at Isfahan University of Technology, Isfahan, Iran (2007-2009)**
  Thesis title: Legendre-Like Theorems in a General Absolute Geometry
  Evaluation: 19.4 out of 20.
- **PhD in Geometry at Isfahan University of Technology, Isfahan, Iran (2010-2014)**
  Thesis title: Beltrami-Klein model of hyperbolic geometry with applications to Einstein's theory of special relativity
  Evaluation: excellent

Interest Area of Research

- Absolute Geometry
- Hyperbolic Geometry
- Elliptic Geometry
- Projective Geometry
- Reflection Geometry
- Mathematical Physics
- Differential Geometry

Publications

1. M. Rostamzadeh, S-Gh. Taherian "On Characterization of Absolute Geometries", Results Math., **63**(1-2)(2013), 171-182.
2. M. Rostamzadeh, S-Gh. Taherian "Defect and Area in Beltrami-Klein Model of Hyperbolic Geometry", Results Math., **63**(1-2)(2013), 229-239.
3. M. Rostamzadeh, S-Gh. Taherian "On Trigonometry in Beltrami-Klein Model of Hyperbolic Geometry", Results Math., **65**(3-4)(2014), 361-369.
4. M. Rostamzadeh, S. Pianta, S-Gh. Taherian and H. Karzel "Classification of General Absolute Planes by Quasi-Ends", Aequat. Math. **89** (2015), 863–872**.**

Conference Papers and Invited Lectures

1. An Introduction to Gyrogroups Theory with Applications, *Workshop on Algebra and Applications, 21-22 October, 2010*, University of Mohaghegh Ardabili , Ardebil, Iran.
2. A Gyrovector Space Isomorphic to Mobius Gyrovector Space*, The 42nd Annual Iranian Mathematics Conference, 5-8 September 201*1, Vali-e-Asr University of Rafsanjan, Iran.

3. A Gyrovector Space Approach to Trigonometry in Beltrami-Klein Model of Hyperbolic Geometry, *The 43rd Annual Iranian Mathematics Conference*, 27-30 August 2012, University of Tabriz, Iran.
4. Defect and Area in Beltrami-Klein Model of Hyperbolic Geometry, *The 43rd Annual Iranian Mathematics Conference*, 27-30 August 2012, University of Tabriz, Iran.
5. Defect and Area in Beltrami-Klein Model of Hyperbolic Geometry, *Invited Lecture*, 12 April 2013, Universita' degli Studi di Brescia, Brescia, Italy.
6. Reflection Spaces, *Invited Lecture*, 7 August 2013, University of Hamburg, Hamburg, Germany.
7. Reflection Spaces Related to Absolute Planes, Invited Lecture, 29 October, Università Cattolica Del Sacro Cuore - Sede di Brescia, Brescia, Italy
8. Rostamzadeh M., Pianta S., Taherian S-Gh. and Karzel H., Quasiparallelism in General Absolute Planes, 11th International Conference on Geometry and Applications, Varna (Bulgaria), September 1–6, 2013, published in *J. Geom.*, **105** (2014), 198-199.

Works in Progress

1. Reflection Spaces Related to Absolute Planes (Submitted)
2. Absolute Planes with Quasi-Parallel Lines and Hyperbolic Congruence (ready to submit).
3. Absolute Planes with Quasi-Parallel Lines and Elliptic Congruence (ready to submit).
4. Orthogonal Zigzag-Operation in an Ordinary absolute plane (ready to submit).
5. Thales-Configurations in Ordinary Absolute Planes. (in progress)
6. Kinematic Spaces Corresponding to Absolute Planes. (in progress)

Visits

1. Sabbatical Leave supported by Iran Ministry of Science, Research and Technology, *6 March 2013-1st October 2013, Technical University of Munich, Munich, Germany.*
2. Scholarship candidate by German Academic Exchange Service (DAAD), 1st *October 2013- 31April 2014, Technical University of Munich, Munich, Germany.*
3. *Guest Researcher, 8-17 April 2013, Universit'a Cattolica Del Sacro Cuore*, Brescia, Italy.
4. *Guest Researcher, 5-13 August 2013,* University of Hamburg, Hamburg, Germany.
5. *Guest Researcher, 16-25 October 2013, Universit'a Cattolica Del Sacro Cuore*, Brescia, Italy.

Advanced Courses Passed

- Projective Geometry
- Geometry of Manifold
- Algebraic Topology
- Topology
- Algebraic Geometry I
- Algebraic Geometry II
- Advanced Algebra
- Lie Groups and Lie Algebras
- Real Analysis
- Vector Bundles
- Special Topics in Geometry

Awards

- Grant of Ministry of Science, Research and Technology's Scholarship of Iran for Sabbatical Leave at Technical University of Munich(TU München), Germany, March 2013-September 2013.
- 6 months research grant of German Academic Exchange Service (DAAD) at Technical University of Munich (TU München), Germany, October 2013-April 2014.

Computer Skills

- **Maple** (professional)
- **LaTeX** (professional)
- **Microsoft office**

Language Skills

Kurdish, Persian, English

My references

1. **Prof. Helmut Karzel**
Address: Department of Mathematics, Technical University of Munich, D-80290 Muenchen, Germany.
e-mail: karzel@ma.tum.de

2. **Prof. Sayed-Ghahreman Taherian**
Address: Department of Mathematics, Isfahan University of Technology, Isfahan, Iran
e-mail: taherian@cc.iut.ac.ir

3. **Prof. Silvia Pianta**
Address: Dipartimento di Matematica e Fisica, Universit'a Cattolica, Via Trieste, 17
I-25121 Brescia, Italy.
e-mail: pianta@dmf.unicatt.it

4. **Prof. Abraham A. Ungar**
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