

Curriculum Vita
Hamid Reza Salimi Moghaddam

General Information

Name: Hamid Reza Salimi Moghaddam.
Born: 1/1/1980, Tehran, Iran.
Citizenship: Iranian.
Gender: Male.
Marital Status: Married.
Number of children: Two daughters.
E-Mails: salimi.moghaddam@gmail.com; hr.salimi@sci.ui.ac.ir
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Address: Department of Pure Mathematics,
Faculty of Mathematics and Statistics,
University of Isfahan,
Isfahan, Iran.
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Academic positions

Shahrood University of Technology
Department of Mathematics,
Assistant Professor, 2007-2011.
University of Isfahan
Department of Mathematics,
Assistant Professor, 2011-2014.
University of Isfahan
Department of Mathematics,
Associate Professor, 2014-.

Education

[2004 – 2007] Ph.D. in mathematics (Differential Geometry).
 Thesis title: Invariant Finsler metrics on homogeneous spaces.
 Thesis Advisor: Prof. E. Esrafilian.
 Iran University of Science and Technology, Tehran, Iran.

[2002 – 2004] M.Sc. in mathematics (Differential Geometry).
 Thesis title: Differential geometry of Cartan connections.
 Thesis Advisor: Prof. M. Nadjafikhah.
 Iran University of Science and Technology, Tehran, Iran.

[1998 – 2002] B.Sc. in pure mathematics July 2002.
 Shahrood University of Technology, Shahrood, Iran.

Administrative responsibilities

- Deputy Head of the Mathematics Department, University of Isfahan, November 2014-November 2016.
 - Deputy Head of the Mathematics Department, University of Isfahan, June 2018-June 2019.
 - Head of the Pure Mathematics Department, University of Isfahan, May 2020-May 2022.
 - Deputy Head of the Faculty of Mathematics and Statistics, University of Isfahan, September 2022-June 2023.
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Research Interests

Riemann-Finsler geometry, invariant structures on Lie Groups and Homogeneous spaces.

Referee/Reviewer:

Journal of Geometry and Physics,
 Differential Geometry and its Applications,
 Mathematical Physics analysis and geometry,
 Bulletin of the Iranian Mathematical Society,
 Houston Journal of Mathematics,
 Journal of Finsler Geometry and its Applications,
 Mathematical Reviews,
 Zentralblatt.

Articles in refereed journals:

- (1) Flag curvature of invariant Randers metrics on homogeneous manifolds, (joint with E. Esrafilian), J. Phys. A: Math. Gen., 39 (2006) 3319–3324.

- (2) Induced Invariant Finsler Metrics on Quotient Groups, (joint with E. Esrafilian), *Balkan J. Geom. Appl.*, 11(1) (2006) 73–79.
- (3) The Relation Between the Associate Almost Complex Structure to HM' and (HM', S, T) -Cartan Connections, (joint with E. Esrafilian), *SIGMA Symmetry Integrability Geom. Methods Appl.*, 2 (2006), Paper 067.
- (4) Symplectic Connections Induced by the Chern Connection, (joint with E. Esrafilian), *DGDS Differ. Geom. Dyn. Syst.*, 10 (2008) 99–106.
- (5) On the flag curvature of invariant Randers metrics on homogeneous spaces, *Math. Phys. Anal. Geom.*, 11 (2008) 1–9.
- (6) Flag curvature of invariant (α, β) -metrics of type $\frac{(\alpha+\beta)^2}{\alpha}$, *J. Phys. A: Math. Theor.*, 41 (2008) 275206.
- (7) Randers Metrics of Berwald type on 4-dimensional hypercomplex Lie groups, *J. Phys. A: Math. Theor.*, 42 (2009) 095212.
- (8) Some Berwald spaces of non-positive flag curvature, *J. Geom. Phys.*, 59 (2009) 969–975.
- (9) On the Geometry of Some Para-Hypercomplex Lie Groups, *Arch. Math. (Brno)*, 45 (2009) 159–170.
- (10) On Some Hypercomplex 4-Dimensional Lie Groups of Constant Scalar Curvature, *Int. J. Geom. Methods Mod. Phys.*, 6(4) (2009) 619–624.
- (11) On the Randers Metrics on Two-Step Homogeneous Nilmanifolds of Dimension Five, *Int. J. Geom. Methods Mod. Phys.*, 8(3) (2011) 501–510.
- (12) On the Curvature of Invariant Kropina Metrics, *Int. Electron. J. Geom.*, 4(2) (2011) 136–140.
- (13) The Relation Between Automorphism Group and Isometry Group of Randers Lie Groups, *Results Math.*, 61 (2012) 137–142.
- (14) Geodesic Vector fields of invariant (α, β) -metrics on Homogeneous spaces, (jointed with M. Parhizkar), *Int. Electron. J. Geom.*, 6(2) (2013) 39–44.
- (15) Invariant Matsumoto metrics on homogeneous spaces, *Osaka J. Math.*, 51 (2014) 39–45.
- (16) On the left invariant Randers and Matsumoto metrics of Berwald type on 3-dimensional Lie groups, *Monatsh. Math.*, 177 (2015) 649–658.
- (17) Two New Families of Finsler Connections on Even-Dimensional Manifolds, *Int. Electron. J. Geom.*, 9(1) (2016) 78–84.
- (18) On the Riemannian geometry of tangent Lie groups, (joint with F. Asgari), *Rend. Circ. Mat. Palermo* (2), 67(2) (2018) 185–195.
- (19) Riemannian Geometry of Two Families of Tangent Lie Groups, (joint with F. Asgari), *Bull. Iranian Math. Soc.*, 44(1) (2018) 193–203.

- (20) Left invariant Randers metrics of Berwald type on tangent Lie groups, (joint with F. Asgari), *Int. J. Geom. Methods Mod. Phys.*, 15 (2018) 1850015.
- (21) Non-Berwaldian Randers metrics of Douglas type on four-dimensional hypercomplex Lie groups, (joint with M. Hosseini), *Rend. Circ. Mat. Palermo (2)*, 67(3) (2018) 539–545.
- (22) On the Finsler Geometry of Four-Dimensional Einstein Lie Groups, (joint with H. Abedi Karimi), *Iran. J. Sci. Technol. Trans. A Sci.*, 43(3) (2019) 1197–1202.
- (23) On left invariant (α, β) -metrics on some Lie groups, (joint with S. Deng, H. Liu and M. Hosseini), *Houston J. Math.*, 45(4) (2019) 1071–1088.
- (24) On the Geometry of Some (α, β) -Metrics on the Nilpotent Groups $H(p, r)$, (joint with M. Nejadahmad), *Int. Electron. J. Geom.*, 12(2) (2019) 218–222.
- (25) Left invariant Ricci solitons on three-dimensional Lie groups, *J. Lie Theory*, 29(4) (2019) 957–968.
- (26) On the Existence of Homogeneous Geodesics in Homogeneous Kropina Spaces, (joint with M. Hosseini), *Bull. Iranian Math. Soc.*, 46 (2020) 457–469.
- (27) Classification of Douglas (α, β) -metrics on five-dimensional nilpotent Lie groups, (joint with M. Hosseini), *Int. J. Geom. Methods Mod. Phys.*, 17(8) (2020) 2050112.
- (28) Douglas (α, β) -metrics on four-dimensional nilpotent Lie groups, (joint with H. Abedi Karimi, and M. Nasehi), *J. Finsler Geom. App.*, 1(2) (2020) 15–26.
- (29) Naturally reductive homogeneous (α, β) -metric spaces, (jointed with M. Parhizkar), *Arch. Math. (Brno)*, 57(1) (2021) 1–11.
- (30) Left invariant lifted (α, β) -metrics of Douglas type on tangent lie groups, (joint with M. Nejadahmad), *Journal of Mathematical Physics, Analysis, Geometry*, 17(2) (2021) 201–215.
- (31) Randers Ricci soliton homogeneous nilmanifolds, *Math. Scand.*, 127(1) (2021) 100–110.
- (32) Invariant Einstein Kropina metrics on Lie groups and homogeneous spaces (joint with M. Hosseini), *Houston J. Math.*, 48(2) (2022) 295–304.
- (33) The relation between automorphism group and isometry group of left invariant (α, β) -metrics (joint with M. Nejadahmad), *J. Finsler Geom. App.*, 4(1) (2023) 81–87.

Lectures:

- International Workshop and Conference on Infinite Dimensional Lie Theory and its Applications, IPM, School of Mathematics, Tehran, Iran, May 10-17, 2011.

- Workshop on Symmetric Spaces, IPM-Isfahan, Isfahan, Iran, March 12-13, 2014.
 - Workshop on Manifolds and Lie Groups, IPM-Isfahan, Isfahan, Iran, September 29, 2015.
 - Workshop and Conference on Infinite Dimensional Lie (Super)algebras and Their Representations, IPM-Isfahan, Isfahan, Iran, May 27-29, 2016.
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Teaching Activities

Fall 2023: General Topology, Foundations of Geometry, Special Topics in Manifolds.

Spring 2023: Differentiable Manifolds II, History of Mathematics.

Fall 2022: General Topology, Foundations of Geometry.

Spring 2022: Calculus II, History of Mathematics.

Fall 2021: General Topology, Finsler Geometry, Foundations of Geometry.

Spring 2021: Local Differential Geometry, Lie Group I.

Fall 2020: General Topology, Foundations of Geometry.

Spring 2020: Calculus II, Finsler Geometry.

Fall 2019: General Topology, Special Topics in Lie groups, Foundations of Geometry.

Spring 2019: Lie group I, Calculus II.

Fall 2018: General Topology, Calculus I.

Spring 2018: Finsler Geometry, Calculus II.

Fall 2017: Special Topics in Lie groups, General Topology.

Spring 2017: Lie group I, Calculus II.

Fall 2016: General Topology, Calculus II.

Spring 2016: Differentiable Manifolds I, Lie group I, Calculus II.

Fall 2015: Foundations of Geometry, Calculus I.

Spring 2015: Special Topics in Differential Geometry, Calculus II.

Fall 2014: Special Topics in Lie groups, Foundations of Geometry, Calculus I.

Spring 2014: Lie group I, Differentiable Manifolds I, Calculus II.

Fall 2013: Special Topics in Lie groups, Differentiable Manifolds I.

Spring 2013: Lie group I, Local Differential Geometry, Calculus II.

Fall 2012: Advanced Differential Geometry, Differentiable Manifolds I, Foundations of Geometry, Differential Geometry.

Spring 2012: Calculus II, Lie group I.

Fall 2011: Calculus I, Differentiable Manifolds I, Foundations of Geometry.

Spring 2011: Linear Algebra, Lie Group I, Differentiable Manifolds II, Calculus II.

Fall 2010: Differential Geometry, Differentiable Manifolds I, Foundations of Geometry, Calculus II.

Spring 2010: Linear Algebra, General Topology, Calculus II, Differentiable Manifolds II.

Fall 2009: Differential Geometry, Calculus I, Differentiable Manifolds I, Foundations of Geometry.

Spring 2009: General Topology, Differential Geometry, Calculus II.

Fall 2008: Differential Geometry, Differentiable Manifolds I.

Spring 2008: General Topology, Differential Geometry, Calculus II.

Fall 2007: Differential Geometry, Calculus I, Calculus II, Differential Topology I.

Participant in Conferences

- Workshop on Basic aspects of infinite dimensional Lie group theory, IPM-Isfahan, Isfahan, Iran, September 30 - October 1, 2015.
- Workshop on Manifolds and Lie Groups, IPM-Isfahan, Isfahan, Iran, September 29, 2015.
- Workshop on Symmetric Spaces, IPM-Isfahan, Isfahan, Iran, March 12-13, 2014.
- International Workshop & Conference on Infinite Dimensional Lie Theory and its Applications, IPM, School of Mathematics, Tehran, Iran, May 10 – 17, 2011.
- The First International Conference on Mathematics and Statistics- AUS-ICMS'10, Sharjah, U.A.E. March 18-21, 2010.
- 37th Annual Iranian Mathematics Conference, Tabriz, 2006.
- 3th Iranian Geometry and Topology Seminar, Tabriz, 2004.
- 14th Iranian Analysis and Its Applications Seminar, Tehran, 2003.
- 34th Annual Iranian Mathematics Conference, Shahrood, 2003.
- 31th Annual Iranian Mathematics Conference, Tehran, 2000.

Ph.D. Students

- (1) Farhad Asgari (2012-2017), Thesis Title: On the geometry of tangent bundle of lie groups.

- (2) Masoumeh Hosseini (2014-2019), Thesis Title: On the Geometry of Invariant Riemann-Finsler Metrics on Some Lie Groups.
 - (3) Hossein Abedi Karimi (2014-2021), Thesis Title: The Study Of Flag Curvature Of Some Invariant (α, β) -metrics.
 - (4) Masumeh Nejadahmad (2015-2021), Thesis Title: On the curvature of some special invariant (α, β) -metrics on some Lie groups.
 - (5) Azar Fatahi (2017-), Thesis Title: General (α, β) -metrics on homogeneous spaces.
 - (6) Morteza Hassanvand (2019-), Thesis Title: Induced Invariant Structures on the Tangent Bundle of Lie Groups.
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