

CURRICULUM VITAE

Abbas Heydari

Personal data: Birth date: 10 January 1976
Place of birth: Zanzan, Iran
Nationality: Iranian

Present position: Assistant professor of pure mathematics,
Tarbiat Modares University

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Education and Degrees:

1998 B.Sc. in pure mathematics, Amirkabir University of Technology, Tehran
2000 M.Sc. in pure mathematics, Amirkabir University of Technology, Tehran
2006 Ph.D. in pure mathematics, Amirkabir University of Technology, Tehran

Appointments:

2007 - 2016 Assistant professor of the University of Tarbiat Modares
2016 – now Associate professor of the University of Tarbiat Modares

Some Lectures and Courses:

Manifold I, Manifold II, Algebraic Topology I, Topics in Geometry,
Lie groups and Lie algebras, Gauge Theory

Research Interests:

Riemannian geometry,
Symplectic geometry,
Gauge theory,
Kähler Geometry,
Lie Algebroids,
Computer Science
Statistical Manifolds.

Graduate Students

M.Sc:

- Masoumeh Zarei,
- Arash Bazdar Hamed Yavari, Elahe Feizolah, i,
- Marzie Bakhtiary, Mohammad Rasoul Hamidi, Navab Fereidouni, Mahmood Moradkhani,
- Azad Sheikhi, Maryam Abdi Dizaji,
- Samira Fazli, Sajjad Khazaei,
- Javad Nazari, Mohammad Hasan Chari, Somaye Fathi, Azade Habibian Dehkordi, Amir saber Joneidi Jafari,
- Seyede Malihe Dehghanian, Majid Golroo, Leila Shamsi,
- Mohammad Ali Ganj Khanloo, Mohammad Farzaneh pour,
- Tadeh Karamian, Davood Nejati,
- Mohammad Hossain Arab Bagheri, Alireza Lotfi pour,
- Farzan Olfati, Esmail Khodabandeloo,
- Hossain Shokoohizadeh,
- Elaheh Rastegar, Seyed Reza Hayatolgeybi, Mehrdad Rohbardar Mojaver, Fatemeh Salehi, Negar Falahati,
- Marjan Golizadeh,
- Reza Moradi,
- Moghan Mazaheri, Fatemeh Jahanfar,

Ph.d:

- Nikrooz Heidari,
- Madjid Tayyebi,
- Esmail Nazari,
- Kajal Eybpoosh.

Research Papers:

1. [Amini, M.; Heydari, A. Toomanian, M.](#); Lie hyperalgebras. *[Analysis and Mathematical Physics. \(2023\) 13:39](#)*
2. [Eybpooosh, K; Rezaghi, M.; Heydari, A.](#): A novel conformal deformation based sparse subspace clustering, *[International Journal of Machine Learning and Cybernetics \(2023\),14 \(5\), 1579-1590.](#)*
3. [Eybpooosh, K; Rezaghi, M.; Heydari, A.](#): Applying inverse stereographic projection to manifold learning and clustering, *[Applied Intelligence \(2022\), 52 \(4\), 4443-4457.](#)*

4. [Nazari, E.; Heydari, A.](#): On Contact and Symplectic Algebroids, [*Iranian Journal of Sciences and Informatics*, \(2021\) 16 \(1\)](#), 35-53.
5. [Toomanian, M.; Amini, M.; Heydari, A.](#): Lie Hyperalgebras and Smooth Vectors of Representations of Lie Hypergroups, [*Iranian Journal of Science and Technology, Transactions A: Science*, \(2019\) 43 \(3\)](#), 1039-1048.
6. [Toomanian, M.; Amini, M.; Heydari, A.](#): Representations of double coset Lie Hypergroups, [*Iranian Journal of Sciences and Informatics*, \(2016\) 11 \(2\)](#), 87-96.
7. Heydari, Nikrooz; Heydari, Abbas; Nearly Kähler Submanifolds of a Space Form. [*Mediterr. J. Math.* 13 \(2016\), no. 5](#), 2525–2537.
8. [Tayyebi, M.; Heydari, A.](#) Horizontal subbundle on Lie algebroids. [*J. Sci. Islam. Repub. Iran* 27 \(2016\), no. 3](#), 279–285.
9. [Heydari, A.; Peyghan, E.; Tayebi, A.](#) Generalized P-reducible Finsler metrics. [*Acta Math. Hungar.* 149 \(2016\), no. 2](#), 286–296.
10. Toomanian, M.; [Amini, M.; Heydari, A.](#) Representations of double coset Lie hypergroups. [*Iran. J. Math. Sci. Inform.*](#) to appear.
11. [Nodehi, A.; Gholizadeh, M.; Heydari, A.](#) Dihedral angles principal geodesic analysis using nonlinear statistics. [*J. Appl. Stat.* 42 \(2015\), no. 9](#), 1962–1972.
12. [Amini, M.; Heydari, A.; Toomanian, M.](#) Lie hypergroups. [*J. Lie Theory* 23 \(2013\), no. 1](#), 127–142.
13. [Peyghan, Esmaeil; Heydari, Abbas; Razavi, Asadollah](#) The 0-homogenous complete lift metric. [*Mediterr. J. Math.* 9 \(2012\), no. 4](#), 693–707.
14. [Peyghan, Esmaeil; Heydari, Abbas; Nourmohammadi Far, Leila](#) On the geometry of tangent bundles with a class of metrics. [*Ann. Polon. Math.* 103 \(2012\), no. 3](#), 229–246.
15. [Heydari, A.; Boroojerdian, N.; Peyghan, E.](#) Symmetric curvature tensor. [*Bull. Iranian Math. Soc.* 37 \(2011\), no. 3](#), 249–267.
16. [Boroojerdian, N.; Peyghan, E.; Heydari, A.](#) Differentiation along multivector fields. [*Iran. J. Math. Sci. Inform.* 6 \(2011\), no. 1](#), 79–96, 104.
17. [Peyghan, Esmaeil; Heydari, Abbas](#) A class of locally symmetric para-Kähler Einstein structures on the cotangent bundle. [*Int. Math. Forum* 5 \(2010\), no. 1-4](#), 145–153.
18. [Peyghan, E.; Razavi, A.; Heydari, A.](#) Conformal vector fields on tangent bundle with a special lift Finsler metric. [*Iran. J. Sci. Technol. Trans. A Sci.* 32 \(2008\), no. 1](#), 53–59, 84.
19. [Heydari, A.; Peyghan, E.](#) A characterization of the infinitesimal conformal transformations on tangent bundles. [*Bull. Iranian Math. Soc.* 34 \(2008\), no. 2](#),
20. [Peyghan, E.; Heydari, A.](#) Conformal vector fields on tangent bundle of a Riemannian manifold. [*J. Math. Anal. Appl.* 347 \(2008\), no. 1](#), 136–142.
21. [Heydari, A.; Boroojerdian, N.; Peyghan, E.](#) A description of derivations of the algebra of symmetric tensors. [*Arch. Math. \(Brno\)* 42 \(2006\), no. 2](#), 175–184.
22. [Peyghan, E.; Razavi, A.; Heydari, A.](#) Almost product structures on tangent manifold of a space form, *Amirkabir J. Sci. and Tech.*, Vol.17/No.65-E-65-D FALL 2006- WINTER 2007, 19-22.
23. [Peyghan, E.; Razavi, A.; Heydari, A.](#) A locally symmetric almost Kähler Einstein structure on the cotangent bundle of a Riemannian manifold, *Amirkabir J. Sc. and Tech.*, Vol.18/No.66 (2007), 59-63.

24. [Heydari, A.](#); [Boroojerdian, N.](#); [Peyghan, E.](#) Symmetric curvature in lifting metrics, *Amirkabir J. Sci. and Tech.*, Vol. 16/No.63-E, (Winter 2006).

Conference Papers:

1. Compatible triple on Lie algebroids, *47th Annual Iranian Mathematics Conference*, Kharazmi University, Iran, 28-31 Aug. 2016.
2. Parametrization of Euclidean Nearly Kähler submanifolds. *8th Int'l Seminar on Geometry & Topology*, Amirkabir University of Technology, Iran, Dec. 13-17, 2015.
3. A New Approach to Connections on Lie Algebroids. *8th Int'l Seminar on Geometry & Topology*, Amirkabir University of Technology, Iran, Dec. 13-17, 2015.
4. Decomposition of Euclidean Nearly Kähler submanifolds, *45th Annual Iranian Mathematics Conference*, Semnan University, Iran, Aug. 25-28, 2014.
5. Nearly Kähler hypersurface of a space form, *44th Annual Iranian Mathematics Conference*, Ferdowsi university of Mashhad, Iran, Aug. 26-29, 2013.
6. 6- Nearly Kähler hypersurfaces in space forms, *43th Annual Iranian Mathematics Conference*, Tabriz University, Iran, Aug. 27-30, 2012.
7. Lie Hypergroups, A preliminary report, *6th Int'l Seminar on Geometry and Topology*, University of Bonab, Sep. 17-19, 2011.