

Habib Amiri

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Born: February 21, 1977, Iran
Nationality: Iranian

Current position

Associate Professor,
Department of Mathematics, University of Zanjan, (from 2007 to present)

Areas of specialization

Mathematical Analysis (Harmonic Analysis).

Research interests:

Topological groups, finite groups, Lie groupoids, Representation theory.

Education

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| 1994-1998 | B.Sc in Pure mathematics , University of Isfahan, Iran. |
| 1998-2001 | M.Sc in Mathematical Analysis , Sharif University of Technology, Tehran, Iran.
M.Sc. dissertation title: Amenability of C^* -Algebras |
| 2001-2007 | Ph.D in Harmonic Analysis , University of Isfahan, Iran.
Doctoral thesis title: Harmonic Analysis on Groupoids |

Grants, honors and awards:

- 1998 B.Sc. Top Student.
- 2001 Ph.D Scholarship from MSRT, Ministry of Science, Research and Technology, of Iran.
- 2006 Short-Term Research Grant from MSRT to spend six months at the University of Orleans, France.
- 2018 Short-Term Research Grant from the University of Paderborn, Germany, to spend two months as a guest researcher

Publications and talks:

JOURNAL ARTICLES:

- 2025 **Amiri, Habib** "Translation operators on topological groupoids with their applications" ,(English). *SEMIGROUP FORUM Issue 112 (2025-09-17) PP. 1-23.*
- 2025 **Amiri, Habib** "The Banach-Tarski paradox and it's Proof" ,(Persian). *Mathematical Culture and Thought*, 43(1), 2024 ,239-258, *Iranian Mathematical Society.*
- 2025 **Amiri, Habib** "Groupoid and groupoid algebras" ,(Persian). *Mathematical Culture and Thought*, 6(1), 2021 ,27-48, *University of Isfahan.*
- 2019 **Amiri, Habib ; Glöckner, Helge ; Schmeding, Alexander**"Lie groupoids of mappings taking values in a Lie groupoid", (English). *Archivum Mathematicum*, vol. 56 (2020), issue 5, pp. 307-356.
- 2019 **Habib Amiri, Alexander Schmeding**, "A differentiable monoid of smooth maps on Lie groupoids", *Journal of Lie Theory* (2019)), No. 4, 1167–1192.
- 2019 **Habib Amiri, Alexander Schmeding**, "Linking Lie groupoid representations and representations of infinite-dimensional Lie groups", *Annals of Global Analysis and Geometry* (2019) 55: 749. DOI: 10.1007/s10455-019-09650-3
- 2018 **Habib Amiri**, "A group of continuous self-maps on a topological groupoid", *Semi-group Forum* (2018) 96: 69. DOI: 10.1007/s00233-017-9857-6 .
- 2012 **H. Amiri, S. M. Jafarian Amiri** "Sum of Element Orders of Maximal Subgroups of the Symmetric Group", *Communications in Algebra*, (2012) 40:2, 770-778, DOI: 10.1080/00927872.2010.537290
- 2012 **H. Amiri, S. M. Jafarian Amiri** "Sum of Element Orders on finite groups of the same order", *Journal of Algebra and Its Applications*, (2011) 10:2 187-190, DOI: 10.1142/S0219498811004057
- 2009 **Habib Amiri, S. M. Jafarian Amiri, I. M. Isaacs** "Sums of Element Orders in Finite Groups", *Communications in Algebra*, (2009) 37:9, 2978-2980, DOI: 10.1080/00927870802502530
- 2007 **Amiri, H.; Lashkarizadeh Bami, M.** "Square Integrable Representation of Groupoids", *Acta Math Sinica* (2007) 23: 327. DOI: 10.1007/s10114-005-0814-z
- 2006 **Amiri, H., Bami, M.** "Principal groupoids with continuous weak multiplication",

Bulletin of the Australian Mathematical Society, (2006) 74(1), 15-28.
DOI: 10.1017/S000497270003553X

TALKS:

- 2018 **Habib Amiri** “Special self-maps on Lie groupoids” Department of Mathematics, University of Paderborn, Germany, August 20, 2018.
- 2014 **Habib Amiri** “On the primitivity of transitive groupoid spaces”, *45 rd Annual Iranian Mathematics Conference*, Semnan University, Semnan-Iran, 26 - 29 August 2014.
- 2012 **Habib Amiri** “System of imprimitivity on locally compact groupoids”, *43 rd Annual Iranian Mathematics Conference*, University of Tabriz, Tabriz, Iran 27-30 August 2012.
- 2011 **Habib Amiri** “A semigroup associated to a topological groupoid”, *1 st Seminar on Harmonic Analysis and Applications*, Isfahan University of technology, Isfahan, Iran, 10 - 11 November 2011.
- 2010 **Habib Amiri** “A new characterization of A_n among all maximal subgroups of S_n ”, *21 st Algebra Seminar of Iran*, University of Tabriz, Tabriz, Iran, 10-11 November 2010.

CONFERENCES AND WORKSHOP ATTENDED:

- 2018 Symmetries in Geometry, Analysis and Spectral Theory, Conference on the occasion of Joachim Hilgert’s 60th Birthday, July 23-27 2018, in Paderborn (Germany).
- 2011 Geometric and measured group theory, July 04- 08, 2011, Institut Henri Poincare Paris, France.
- 2007 Trimester on Groupoids and Stacks in Physics and Geometry, From January 8th to April 6th of 2007, Institut Henri Poincare, Paris, France.
- 2007 Higher Structures in Geometry and Physics, Conference in honor of Murray Gerstenhaber’s 80th and Jim Stasheff’s 70th birthdays, January 15 - 19, 2007 IHP-Paris, France.
- 2007 Workshop on Quantum Cohomology of Stacks, Feb 12 - 16, 2007 IHP-Paris, France.
- 2007 Groupoids in operator algebras and noncommutative geometry, Feb 26-Mar 2, 2007 IHP-Paris, France.

Teaching Experience

Since 2007, I have taught the following courses multiple times:

UNDERGRADUATE (B.Sc.)

Calculus I, II, and III; Principles of Mathematics; Principles of Mathematical Analysis; Mathematical Analysis I and II; Differential Equations.

GRADUATE (M.Sc. AND Ph.D.)

Real Analysis, Harmonic Analysis, Functional Analysis.