

Academic Positions

- Assistant Professor, The University of Golestan (**UG**), Gorgan, Golestan, Iran, (2009-2011)
- Assistant Professor, Tarbiat Modares University (**TMU**), Tehran, Iran, (2007-2009).
- Teaching and Research Assistant (during my PhD studies), The University of Western Ontario (**UWO**), London, Ontario, Canada, (2003-2007).

Research Interests

- Noncommutative Geometry, Operator Algebras, K -Theory and Cyclic Cohomology.

Publications and Preprints

- K -theory tools for local and asymptotic cyclic cohomology. Proc. Amer. Math. Soc. 133 (2005), 1185-1195.
- Galois embedding problems with abelian kernels of exponent p . VDM Verlag Dr. Müller, ISBN: 978-3-639-14067-5, (2009).
- Module homomorphisms of group algebras of cyclic p -groups in characteristic p . Int. Electron. J. Algebra, vol. 7, (2010), 59-77.
- Property (RD) for Hecke pairs. (Accepted for publication by Mathematical Physics, Analysis and Geometry)
- Various commensurability relations in Hecke pairs and property (RD). (In preparation)
- Hecke C^* -algebras as noncommutative metric spaces. (In preparation)

Teaching Experiences; (graduate courses)

- **Real Analysis (I)**. (a course on measure theory, integration, product of measures, Fubini-Tonelli theorem, signed and complex measures, Radon-Nikodym theorem, Banach spaces, L^p spaces and duality between L^p spaces). *Textbook: Real Analysis, modern techniques and their applications, by G. B. Folland* (TMU, Spring 2008, Fall 2008, Spring 2009).
- **Topics in Functional Analysis**. (a course on Hilbert spaces, spectral theory and C^* -algebras: the algebra $B(H)$ of bounded operators on a Hilbert space H , different topologies on $B(H)$, polar decomposition in $B(H)$, holomorphic, continuous and Borel functional calculi, basics of C^* -algebras, ideals, quotients, approximate units, polar decomposition in C^* -algebras, representations, GNS construction). *Textbooks: 1. Operator Algebras, by B. Blackadar 2. Theory of Operator Algebras I, by M. Takesaki* (TMU, Fall 2008).
- **Real Analysis (II)**. (continuation of real analysis (I); more on L^p -spaces, Radon measures, Riesz's representation theorem and Fourier analysis on \mathbb{R}^n and \mathbb{T}^n). *Textbook: Real Analysis, modern techniques and their applications, by G. B. Folland* (TMU, Spring 2009).
- **Harmonic Analysis**. (locally compact topological groups and Haar integration, elementary spectral theory of Banach and C^* -algebras, the Gelfand duality, continuous functional calculus and the Pontryagin duality of locally compact abelian groups). *Textbook: Principles of Harmonic Analysis, by A. Deitmar and S. Echterhoff* (UG, Spring 2010).
- **Algebraic Topology (I)**. (basics of categories and functors, basic topological constructions, basics of homotopy groups, fundamental groups, the Seifert-van Kampen theorem, singular homology, some basic tools for computing homology groups such as the Hurewicz theorem and the Mayer-Vietoris exact sequence). *Textbook: An Introduction to Algebraic Topology, by J. J. Rotman* (UG, Fall 2010).

Teaching Experiences; (undergraduate courses)

- **Calculus (I) and (II)**. (for different disciplines including mathematics, statistics, physics, biology, different branches of engineering, etc.) (Azad University of Tehran, Fall 1999), (The University of Agricultural Sciences and Natural Resources of Gorgan, Fall 2009), (UG, Fall 2009, Fall 2010).
- **Mathematical Analysis (II)** (UG, Fall 2009).
- **Linear Algebra (I)** (UG, Fall 2009).
- **English for Mathematics Students** (UG, Fall 2009, Spring 2010).
- **Local Differential Geometry** (UG, Spring 2010, Fall 2010).

Academic and Professional Services

- I have been the advisor of a master thesis:
 - **Fatemeh Fattahi**, “*induced primitive ideals of C^* -crossed products*”, (UG, completed in May 2011).
- I have been the mentor of an undergraduate student:
 - **Soraya Garanjik**, “*Hilbert spaces*”, (UG, completed in January 2011).
- I have been the co-advisor of 3 master students. (TMU)
- I have been a reader (examiner) of 4 master theses, (TMU, UG).

Other Educational Experiences

- Tutoring a course on **Abstract Algebra**, The University of Tehran, (Spring 1999).
- Teaching assistant for a **wide range of Undergraduate Mathematics Courses**, (UWO, 2003-2007).
- Organizing (giving an introductory lecture and supervising graduate students) a series of weekly seminars on **Operator Algebras and K -Theory**, (with Prof. Massoud Amini), (TMU, Spring 2008).
- Organizing (giving two introductory lectures and supervising graduate students) a series of weekly seminars on **Fourier Analysis**, (UG, Spring 2010).

Seminars and Lectures

- More than 60 hours talks, seminars and lectures on various subjects such as: **Noncommutative Differential Calculus, Symplectic Geometry, C^* -Algebras, K -Theory of C^* -Algebras, Cyclic Homology and Cohomology, Hopf Algebras, Number Theory via Noncommutative Geometry, Cyclic Homology of Group Algebras, Hecke Operators, The Rankin-Selberg method (for the construction of new L -functions), Group Cohomology, Abelian Varieties with Complex Multiplications, and Galois Embedding Problems**, (2003-2007, during my PhD studies at UWO).
- Three lectures on **Cyclic Cohomology**, School of Mathematics, Institute for studies in Theoretical Physics and Mathematics, (IPM), Tehran, Iran, (Nov. 2007).
- A colloquium talk on **Noncommutative Calculus**, (TMU, Nov. 2007).
- A colloquium talk on **Hecke Operators, Hecke C^* -Algebras and Noncommutative Geometry**, (TMU, Dec. 2008).
- A research talk on **Property RD for Hecke Pairs** in *The Focused Semester on KK -Theory and its Applications* at The University of Münster, Germany, (June 2009).
- Two lectures on **The Cuntz Picture of KK -Theory** in *The Focused Semester on KK -Theory and its Applications* at The University of Münster, Germany, (June 2009).

- A colloquium talk on **Classic and Noncommutative Algebraic Topology**, (UG, Dec. 2009).
- A colloquium talk on **Hecke C^* -Algebras**, (UG, Dec. 2010).

Awards

- International Graduate Student Scholarship, (UWO, 2003-2007).
- Special University Scholarship, (UWO, 2003-2007).
- Western Graduate Thesis Research Award (UWO, 2006).

Education

- **PhD in Mathematics.** (2003-2007), The University of Western Ontario, London, Ontario, Canada.
I completed my PhD degree in August 2007. The title of my PhD thesis is “On Certain Galois Embedding Problems over p -Adic Fields”.
- **PhD Candidate in Mathematics.** (1999-2002), The University of Tehran, Tehran, Iran.
I quitted my PhD at The University of Tehran to pursue my PhD in Canada. However, I accomplished an original research there. It was published in the paper titled “ K -theory tools for local and asymptotic cyclic cohomology”.
- **Master of Science in Mathematics.** (1998-1999), The University of Tehran, Tehran, Iran.
I was accepted in the PhD program after a year of studying in the master level. Therefore, I transferred to PhD program before completing my Master degree.
- **Bachelor of Science in Mathematics.** (1994-1998), The University of Tehran, Tehran, Iran.

Long visits

- Summer school and conference on **Dirac Operators, yesterday and today**, The American University of Beirut, Beirut, Lebanon, (Aug. 26–Sept. 9, 2001).
- Focused semester on **KK-theory and its applications**, The University of Münster, Münster, Germany (May, June and July of 2009).