

Khashayar Sartipi

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- Research Interests** • Algebraic K-Theory, Kasparov K-theory, C^* -Categories, Complex Geometry
- Education**
- **Ph.D. student in Mathematics** Aug 2013-Present
 - Department of Mathematics, Computer Sciences and Statistics, University of Illinois at Chicago, Chicago, Illinois
 - Advisor: Prof. Henri Gillet
 - **B.Sc in Mathematics** Sep 2009-2013
 - Department of Mathematical Sciences Sharif University of Technology, Tehran, Iran
 - Dissertation Title: Generalized Gauss Bonnet Theorem
 - Supervisor: Prof. Amir Jafari
- Selected Honors and Awards**
- **Third Prize**, International Mathematical Competition, Summer 2012
Blagoevgrad, Bulgaria
 - **Gold Medal**, Iran Mathematics Olympiad for University Students, Spring 2012
Zanjan, Iran
 - **Grant** for Undergraduate Studies, National Elite Foundation, 2009-2013
Tehran, Iran
 - **Gold Medal**, National Mathematics Olympiad, Summer 2008
Tehran, Iran
 - **Silver Medal**, National Mathematics Olympiad, Summer 2007
Tehran, Iran
- Publications and Preprints**
- **K. Sartipi**, (Preprint) arxiv: 1810.11951. Oct 2018
Paschke Categories, K-homology, and the Riemann-Roch Transformation
- Presentations**
- *Paschke Categories, K-homology and the Riemann-Roch transformation*
 - Non-Commutative Geometry Seminar Sep 2018
Department of Mathematics, Penn State University, State College, Pennsylvania
 - ICM 2018 K-Theory Conference Jul 2018
Universidad de Buenos Aires, Buenos Aires, Argentina
 - *On Zero-Sum Flows in Hypergraphs* Sep 2012
ICTP-IPM Workshop and Conference in Combinatorics and Graph Theory, Trieste, Italy
 - Talks at Graduate Student Seminars
Department of Mathematics, University of Illinois at Chicago, Chicago, Illinois
 - *Sheaves of C^* -algebras* Mar 2017
 - *Brown-Gersten Spectral Sequence for G-theory* Mar 2017
 - *G-Theory and Nisnevich Descent* Feb 2017
 - *Complex Oriented Cohomology Theories* Feb 2016
 - *K-Theory of Finite Fields* Nov 2015
 - *Bounded Cohomology and Milnor-Sullivan Theorem* Mar 2015
 - *From Morse Theory to Bott Periodicity* Oct 2014
 - *Novikov Compact Leaf Theorem* Mar 2014
 - Talks at Sharif University of Technology, Tehran, Iran

- *Probability Theory*, Topics in Analysis Dec 2012
- *Group Connectivity*, Topics in Graph Theory May 2012
- *Sieve Theory*, Analytic Number Theory, Dec 2011

Workshops and Seminars

- *ICM 2018 K-Theory Conference* July 2018
Universidad de Buenos Aires, Buenos Aires, Argentina
Universidad Nacional de La Plata, La Plata, Argentina
- *Vitamin K1* Mar 2018
University of Illinois at Chicago, Chicago, Illinois
- *K-theory and Related Fields* Jul 2017
Hausdorff Research Institute for Mathematics, Bonn, Germany
- *Topology Festival* May 2017
Cornell University, Ithaca, New York
- *Workshop on the Geometry and Physics of Higgs bundles* Oct 2016
University of Illinois at Chicago
- *Midwest Topology Seminar* Feb 2016
Northwestern University, Chicago, Illinois
- *Midwest Topology Seminar* Oct 2015
Wayne State University, Detroit, Michigan
- *K-theory, Future Directions* May 2015
Ohio State University, Columbus, Ohio
- *Midwest Algebraic Geometry Seminar* Apr 2015
University of Illinois at Chicago, Chicago, Illinois
- *Graduate Student Topology and Geometry Conference* Mar 2015
University of Illinois at Urbana-Champaign, Urbana, Illinois
- *Midwest Algebraic Topology Seminar* Feb 2015
University of Illinois at Chicago, Chicago, Illinois
- *Frontiers of Mathematics* Dec 2012
Sharif University of Technology, Tehran, Iran
- *One Day Seminar of Algebra Day in Algebra* Oct 2012
Isfahan Math House, Isfahan, Iran
- *ICTP-IPM Workshop and Conference in Combinatorics and Graph Theory* Sep 2012
ICTP, Trieste, Italy
- *One Day Seminar in Graph Theory* May 2012
IPM, Tehran, Iran

Tutorial Experiences

- **Instructor for Summer Enrichment Workshop**
Department of Mathematics, University of Illinois at Chicago, Chicago, Illinois
 - Intermediate Algebra Summer 2018
 - Intermediate Algebra Summer 2017
 - Intermediate Algebra Summer 2014
- **Teaching Assistant**
Department of Mathematics, University of Illinois at Chicago, Chicago, Illinois
 - Intermediate Algebra (M090) Fall 2018
 - Applied Linear Algebra (M310) Spring 2018
 - Applied Linear Algebra (M310) Fall 2017
 - Precalculus (M121) Spring 2017
 - Calculus 1 (M180) Fall 2016
 - Calculus 3 (M210) Summer 2016
 - Precalculus (M121) Spring 2016
 - Precalculus (M121) Fall 2015

- Precalculus (M121) Summer 2015
- Precalculus (M121) Spring 2015
- Calculus 3 (M210) Fall 2014
- Intermediate Algebra (M090) Fall 2014
- Linear Algebra (M125) Spring 2013
- Linear Algebra (M125) Fall 2013
- **Teaching Assistant**, Department of Mathematical Sciences,
Sharif University of Technology, Tehran, Iran
 - Combinatorics and Applications Fall 2012
 - Mathematical Analysis Spring 2012
 - Mathematical Analysis Fall 2011
- **Tutoring** Mathematical Olympiad materials
 - University of Illinois at Chicago, Chicago, Illinois 2013-Present
 - For top high school students in Iran 2007-2012