

Khashayar Sartipi

homepages.math.uic.edu/~ksartipi ksarti2@uic.edu (561) 955 0361

- Research Interests** • Algebraic K-Theory, Kasparov K-theory, C^* -Categories, Complex Geometry
- Education**
- **Ph.D.** student in **Mathematics** Aug 2013-July 2019
 - Department of Mathematics, Computer Sciences and Statistics, University of Illinois at Chicago, Chicago, Illinois
 - Thesis Title: Paschke Category, K-homology, and the Riemann-Roch Transformation
 - 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**, (Submitted to Annals of K-Theory)
Paschke Categories, K-homology, and the Riemann-Roch Transformation
- Presentations**
- *Paschke Categories, K-homology and the Riemann-Roch transformation*
 - Algebra Seminar Feb 2019
Department of Mathematics, Rutgers University, New Brunswick, New Jersey
 - Algebra Seminar Jan 2019
Department of Mathematics, Temple University, Philadelphia, Pennsylvania
 - GroupoidFest 2018 Nov 2018
Department of Mathematics, University of Illinois at Chicago, Chicago, Illinois
 - 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

	– <i>Bounded Cohomology and Milnor-Sullivan Theorem</i>	Mar 2015
	– <i>From Morse Theory to Bott Periodicity</i>	Oct 2014
	– <i>Novikov Compact Leaf Theorem</i>	Mar 2014
	• Talks at Sharif University of Technology, Tehran, Iran	
	– <i>Probability Theory</i> , Topics in Analysis	Dec 2012
	– <i>Group Connectivity</i> , Topics in Graph Theory	May 2012
	– <i>Sieve Theory</i> , Analytic Number Theory,	Dec 2011
Workshops and Seminars	• <i>ICM 2018 K-Theory Conference</i>	July 2018
	Universidad de Buenos Aires, Buenos Aires, Argentina Universidad Nacional de La Plata, La Plata, Argentina	
	• <i>Vitamin K1</i>	Mar 2018
	University of Illinois at Chicago, Chicago, Illinois	
	• <i>K-theory and Related Fields</i>	Jul 2017
	Hausdorff Research Institute for Mathematics, Bonn, Germany	
	• <i>Topology Festival</i>	May 2017
	Cornell University, Ithaca, New York	
	• <i>Workshop on the Geometry and Physics of Higgs bundles</i>	Oct 2016
	University of Illinois at Chicago	
	• <i>Midwest Topology Seminar</i>	Feb 2016
	Northwestern University, Chicago, Illinois	
	• <i>Midwest Topology Seminar</i>	Oct 2015
	Wayne State University, Detroit, Michigan	
	• <i>K-theory, Future Directions</i>	May 2015
	Ohio State University, Columbus, Ohio	
	• <i>Midwest Algebraic Geometry Seminar</i>	Apr 2015
	University of Illinois at Chicago, Chicago, Illinois	
	• <i>Graduate Student Topology and Geometry Conference</i>	Mar 2015
	University of Illinois at Urbana-Champaign, Urbana, Illinois	
• <i>Midwest Algebraic Topology Seminar</i>	Feb 2015	
University of Illinois at Chicago, Chicago, Illinois		
• <i>Frontiers of Mathematics</i>	Dec 2012	
Sharif University of Technology, Tehran, Iran		
• <i>One Day Seminar of Algebra Day in Algebra</i>	Oct 2012	
Isfahan Math House, Isfahan, Iran		
• <i>ICTP-IPM Workshop and Conference in Combinatorics and Graph Theory</i>	Sep 2012	
ICTP, Trieste, Italy		
• <i>One Day Seminar in Graph Theory</i>	May 2012	
IPM, Tehran, Iran		
Tutorial Experiences	• Instructor at Art of Problem Solving	2019-2020
	AoPS Academy Carmel Valley, San Diego, California	
	• 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		
– Special Topics in Mathematics (M194)	Summer 2019	

- Calculus 3 (M210) Spring 2019
 - Applied Linear Algebra (M310) Spring 2019
 - 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 2013-2019
 - For top high school students in Iran 2007-2012