Kamyar Amini

Curriculum Vitae

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Reserach Interests

Algebraic Geometry and related fields

Education

2021-Present **Ph.D. in Mathematics**, Virginia Tech
Advisor: Prof. Leonardo Mihalcea

2016-2019 **M.Sc in Mathematics, 2019**, *Sharif University of Technology*, Tehran, Iran
Advisor: Prof. Iman Setayesh

2011-2016 **B.Sc in Mathematics,2017**, *Sharif University of Technology*, Tehran, Iran

Publications and Preprints

1 Toda-type presentations for the quantum K theory of partial flag varieties
(joint with I. Huq-Kuruvilla, W. Xu, L.C. Mihalcea, D. Orr), Symmetry, Integrability and Geometry: Methods and Applications, In Press

2 Lifting I-function from Grassmannian to their cotangent bundle

3 K-Theoretic Double Ramification Cycles
(joint with Y.C. Chou, L. Herr, D. Holmes, I. Huq-Kuruvilla, and Y.P. Lee), In Progress

Talks & Posters

1 Quadratic Reciprocity Law
Sharif University of Technology, 2014

2 Intersection Theory on Surface
IPM, Tehran, 2014

3 Poincaré Polynomial of Quot Scheme
Algebra Seminar, Virginia Tech, 2023

4 I-functions of Flag Manifolds and of Their Cotangent Bundles
Poster Session, Virginia Commonwealth University, Aug 2024

5 I-functions of Flag Manifolds and of Their Cotangent Bundles
Poster Session, Dartmouth College, Nov 2024

6 I-functions of Flag Manifolds and of Their Cotangent Bundles
Poster Session, University of Arizona

7 Quantum K-Theory of Partial Flag Varieties
  Algebra Seminar, Virginia Tech, 2025
8 Toda Type Presentation for The Quantum K Theory of Partial Flag Varieties
  2025 Spring Central Sectional Meeting, University of Kansas, 2025

Academic Experiences

1 Special Year on Langlands program
  IPM, 2015-2016
2 Spring Meeting on Algebraic Geometry
  IPM, April 2017
3 Spring School on Analytic Number Theory
  IPM, May 24-31, 2017
4 Schubert Summer School
  UIUC Urbana-Champaign, June 2023
5 Algebraic Geometry Northeastern Section
  University of Pennsylvania, October 2023
6 Mid-Atlantic Algebra, Geometry, and Combinatorics Workshop in Richmond
  Virginia Commonwealth University, Dec 2023
7 Richmond Geometry Meeting
  Virginia Commonwealth University, Aug 2024
8 Special Session on Generalized Schubert Calculus and Recent Progress
  University at Albany, Oct 2024
9 Algebraic Geometry Northeastern Series
  Dartmouth College, Nov 2024
10 The Western Algebraic Geometry Symposium
  University of Arizona, Nov 2024
11 Winter School on Enumerative Geometry and Mirror Symmetry
  California Institute of Technology, Jan 2025
12 Workshop on Combinatorics of Enumerative Geometry
  Institute for Advanced Study, Feb 2025
13 AMS Sectional Meeting AMS Special Session
  University of Kansas, Mar 2025
14 Georgia Algebraic Geometry Symposium
  University of Georgia, March 2025
15 2025 Summer Research Institute in Algebraic Geometry
  Colorado State University, July 2025
16 Reading Group on Log Geometry
  Virginia Tech, Fall 2025

Teaching

Spring 2023	Elementary Calculus, Teaching Assistant
Fall 2023	Business Calculus, Teaching Assistant
Spring 2024	Business Calculus, Teaching Assistant
Fall 2024	Preparation for Calculus, Instructor
Spring 2025	Elementary Calculus, Teaching Assistant
Fall 2025	Preparation for Calculus, Instructor