

# ASILATA BAPAT

Mathematical Sciences Institute  
The Australian National University  
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<https://asilata.github.io>

## EMPLOYMENT

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- 2018– **The Australian National University, Canberra**  
Lecturer.
- 2016–2017 **University of Georgia**  
Limited Term Assistant Professor.

## EDUCATION

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- 2010–2016 **The University of Chicago**  
M.S. in Mathematics received June 2012.  
Ph.D. in Mathematics received June 2016.  
Advisor: Prof. Victor Ginzburg
- SPRING 2015 Visitor at the Max Planck Institute for Mathematics
- 2006–2010 **Massachusetts Institute of Technology**  
B.S. in Mathematics with Computer Science. GPA 4.9 out of 5.

## PREPRINTS AND PUBLICATIONS

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- The Strong Topological Monodromy Conjecture for Coxeter Hyperplane Arrangements (with Robin Walters).  
To appear in *Mathematical Research Letters*.
- The Bernstein-Sato  $b$ -function of the Vandermonde determinant (with Robin Walters).
- Torus actions and tensor products of intersection cohomology.  
*Pacific Journal of Mathematics*, 276 (1):19–34, 2015.
- Lower central series of free algebras in symmetric tensor categories (with David Jordan).  
*Journal of Algebra*, 373:299–311, 2013.

## GRANTS AND AWARDS

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- 2016–2018 AMS–Simons travel grant
- 2016 Nadine Kowalsky Prize, University of Chicago
- 2015 DAAD (German Academic Exchange Service) short-term research grant
- 2014–2015 Jerry Rao Fellowship, University of Chicago
- 2014 Lawrence and Josephine Graves Teaching Prize, University of Chicago
- 2010–2012 Amick Fellowship, University of Chicago
- 2010 Phi Beta Kappa, MIT
- 2009 Rogers Prize for best paper, Summer Program in Undergraduate Research, MIT
- 2005 Indian National Mathematical Olympiad (INMO) scholarship
- 2003, 2005 Gold and silver medals, International Astronomy Olympiad, as a member of the Indian delegation

## INVITED TALKS AND PRESENTATIONS

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MAR 2017	Geometric representation theory seminar, University of Toronto
MAR 2017	Algebraic Geometry, Arithmetic Geometry, and Commutative Algebra Seminar, University of South Carolina
MAR 2017	AMS Spring Southeastern Sectional Meeting (special session)
JAN 2017	AMS Joint Mathematical Meeting (special session)
DEC 2016	Mathematics Seminar, Indian Institute of Science Education and Research
NOV 2016	Algebra Seminar, University of Georgia
SEP 2016	Algebra Seminar, University of Georgia
JUN 2016	Young Women in Representation Theory, University of Bonn
FEB 2016	Algebraic Geometry Seminar, Ohio State University
JAN 2016	Algebra Seminar, University of Alberta
OCT 2015	AlGeCom 12, University of Michigan (poster presentation)
OCT 2015	AMS Central Fall Sectional Meeting, Loyola University (poster presentation)
SEP 2015	Algebraic Geometry/Commutative Algebra Seminar, University of Notre Dame
MAY 2015	Oberseminar Representation Theory, University of Bonn
MAY 2015	Number Theory and Algebraic Geometry Seminar, Katholieke Universiteit Leuven
MAY 2015	Oberseminar Algebra, Mathematisches Institut, University of Cologne
JUL 2014	Mathematics Seminar, Indian Institute of Science Education and Research
JUN 2014	Summer school on quiver Hecke algebras (expository)
MAY 2014	Workshop on Yangians and quantum loop algebras (expository)

## TEACHING

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	<b>University of Georgia</b>
2016–2017	Instructor for Calculus I and II for Science and Engineering (Math 2250 and 2260).
	<b>The University of Chicago</b>
2015–2016	Instructor for IBL Honors Calculus (Math 161, 162, and 163).
2014–2015	Instructor for Studies in Mathematics I and II (Math 112 and 113).
SUMMER 2014	Instructor for Linear Algebra (Math 19620).
2013–2014	Instructor for Calculus I, II, and III (Math 151, 152, and 153).
2012–2013	Instructor for Calculus I, II, and III (Math 151, 152, and 153).
2011–2012	Teaching assistant for Honors Algebra I, II, and III (Math 257, 258, and 259).
	<b>Canada/USA Mathcamp</b>
SUMMER 2017	Visiting faculty. Taught a course on quiver representations.
SUMMER 2015	Academic co-coordinator. Coordinated the academic schedule, invited visiting speakers, and taught a variety of undergraduate-level courses.
SUMMER 2013	Mentor. Taught a variety of undergraduate-level courses.
SUMMER 2012	Mentor. Taught a variety of undergraduate-level courses.
SUMMER 2011	Visiting mentor. Taught a course on group theory.

## SERVICE

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- 2016– Co-organizer of the UGA algebra seminar.
- 2013–2015 Vice-president for the University of Chicago chapter of the Association for Women in Mathematics.
- 2012–2014 Organizer of a graduate student representation theory seminar, University of Chicago.
- 2011–2012 Co-organizer of the weekly graduate student seminar, University of Chicago.
- 2012–2014 Mentor for Directed Reading Program, University of Chicago (four projects).
- 2011 Mentor for REU, University of Chicago.
- 2009 Proofreader for the book *P, NP, and NP-completeness: The Basics of Computational Complexity* by Oded Goldreich.

## CONFERENCES ATTENDED

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- MAR 2017 AMS Spring Southeastern Sectional Meeting, Charleston
- JAN 2017 AMS Joint Mathematical Meeting, Atlanta
- JUN 2016 Young Women in Representation Theory, Hausdorff Research Institute for Mathematics
- MAY 2016 Algebraic Groups, Quantum Groups and Geometry, University of Virginia
- MAY 2016 Advances in Geometric Representation Theory, University of Michigan
- OCT 2015 Algebra, Geometry, and Combinatorics Day 12, University of Michigan
- OCT 2015 Workshop on Springer Theory and Related Topics, University of Massachusetts Amherst
- OCT 2015 AMS Central Fall Sectional Meeting, Loyola University
- MAR–APR 2015 Conference on the interaction of representation theory with geometry and combinatorics, Hausdorff Research Institute for Mathematics
- SEP 2014 Heidelberg Laureate Forum 2014
- SEP 2014 Introductory Workshop: Geometric Representation Theory, MSRI
- AUG 2014 Connections for Women: Geometric Representation Theory, MSRI
- JUN 2014 Conference on geometric representation theory, Institut d'Études Scientifiques
- JUN 2014 Summer school on quiver Hecke algebras, Institut d'Études Scientifiques
- MAY 2014 Workshop on Yangians and quantum loop algebras
- NOV 2013 Algebra, Geometry, and Combinatorics Day 9, Loyola University
- AUG–SEP 2013 Gelfand Centennial Conference, MIT
- MAR 2013 Graduate student workshop on moduli spaces and Bridgeland stability, University of Illinois at Chicago
- AUG 2012 Workshop in categorical representation theory, University of Oregon
- APR 2012 Geometry of derived categories and representation theory, Northeastern University
- MAY 2011 Examples of geometries, Ohio State University
- SEP 2009 Women in mathematics in New England, Smith College