

# ASILATA BAPAT

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<https://asilata.github.io>

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## EMPLOYMENT

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2016– **University of Georgia, Department of Mathematics**  
Limited Term Assistant Professor.

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## EDUCATION

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2010–2016 **The University of Chicago, Department of Mathematics**  
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.

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## PREPRINTS AND PUBLICATIONS

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2015	The Strong Topological Monodromy Conjecture for Coxeter Hyperplane Arrangements (with Robin Walters), to appear in <i>Mathematical Research Letters</i> .	<a href="#">pdf</a>
2015	The Bernstein-Sato $b$ -function of the Vandermonde determinant (with Robin Walters).	<a href="#">arXiv:1503.01055</a>
2014	Torus actions and tensor products of intersection cohomology. <i>Pacific Journal of Mathematics</i> , 276 (1):19–34, 2015.	<a href="#">arXiv:1309.0859</a>
2013	Lower central series of free algebras in symmetric tensor categories (with David Jordan). <i>Journal of Algebra</i> , 373:299–311, 2013.	<a href="#">arXiv:1001.1375</a>

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## TEACHING

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**University of Georgia**

2016– Instructor for Calculus I for Science and Engineering (Math 2250).

**The University of Chicago**

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).

**Canada/USA Mathcamp**

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.

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## INVITED TALKS AND PRESENTATIONS

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JUN 2016	Young Women in Representation Theory, University of Bonn	Bonn
FEB 2016	Algebraic Geometry Seminar, Ohio State University	Columbus
JAN 2016	Algebra Seminar, University of Alberta	Edmonton
OCT 2015	AlGeCom 12, University of Michigan (poster presentation)	Ann Arbor
OCT 2015	AMS Central Fall Sectional Meeting, Loyola University (poster presentation)	Chicago
SEP 2015	Algebraic Geometry/Commutative Algebra Seminar, University of Notre Dame	Notre Dame
MAY 2015	Oberseminar Representation Theory, University of Bonn	Bonn
MAY 2015	Number Theory and Algebraic Geometry Seminar, Katholieke Universiteit Leuven	Leuven
MAY 2015	Oberseminar Algebra, Mathematisches Institut, University of Cologne	Cologne
JUL 2014	Mathematics Seminar, Indian Institute of Science Education and Research	Pune
JUN 2014	Summer school on quiver Hecke algebras (expository)	Cargèse
MAY 2014	Workshop on Yangians and quantum loop algebras (expository)	Austin

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## 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

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## 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: <i>The Basics of Computational Complexity</i> by Oded Goldreich.

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## CONFERENCES ATTENDED

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