Padmavathi Srinivasan http://people.math.gatech.edu/~psrinivasan41@math.gatech.edu/~psrinivasan41

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2011–2016 **PhD in Mathematics**, *Massachusetts Institute of Technology*, Cambridge, MA. Advisor: Bjorn Poonen

2009–2011 MSc in Mathematics, Chennai Mathematical Institute, Chennai, India.

2006–2009 BSc (Honours) in Physics, Chennai Mathematical Institute, Chennai, India.

Publications

- 1 Conductors and minimal discriminants of hyperelliptic curves: a comparison in the tame case, *In preparation*.
- 2 Explicit computation of Tamagawa numbers and sizes of component groups of Neron models of Jacobians, *In preparation*.
- 3 A virtually ample field that is not ample, virtually ample.pdf.
- 4 Conductors and discriminants of hyperelliptic curves, Submitted, arxiv:1508.05172.
- 5 Zeta functions of a class of Artin-Schreier curves with many automorphisms (with Irene Bouw, Wei Ho, Beth Malmskog, Renate Scheidler and Christelle Vincent), *Accepted to WIN3 proceedings volume* arxiv:1410.7031.

Honours

CMI Medal of Excellence, MSc in Mathematics **CMI Medal of Excellence**, BSc (Honours) in Physics

Grants

June 2019 AMS Mathematical Research Communities, **Explicit methods in arithmetic geometry in characteristic** p (Joint with Renee Bell, Julia Hartmann, Valentijn Karemarker and Isabel Vogt)

Upcoming talks

March 2018 AMS Central Sectional Meeting, Columbus, Ohio, Special Session on Algebraic and Combinatorial Aspects of Tropical Geometry

Research talks and presentations

February Georgia Algebraic Geometry Symposium, Georgia Institute of Technology 2018

September AMS Central Sectional Meeting, Denton, Texas, Special Session on Numbers, Functions, 2017 Transcendence, and Geometry

January 2017 Joint Mathematics Meetings, AMS Special Session on Minimal integral models of algebraic curves

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December 2016	Georgia Institute of Technology, Algebra seminar
November 2016	Junior number theory days, Rutgers, Newark
November 2016	Emory university, Algebra seminar
October 2016	University of South Carolina, Algebraic geometry, arithmetic geometry and commutative algebra seminar
September 2016	TAAAG: Topological approaches to algebra and arithmetic geometry
April 2016	3rd Annual Graduate Student Math Conference in Algebra/Number Theory, Brown University
February 2016	Ohio State University, Number theory seminar
February 2016	University of Wisconsin, Madison, Number theory seminar
January 2016	Joint Mathematics Meetings, AMS Special Session on Higher Genus Curves and Fibrations of Higher Genus Curves in Mathematical Physics and Arithmetic Geometry
October 2015	Rice University, Algebraic geometry and number theory seminar
October 2015	University of Georgia, Number theory and arithmetic geometry seminar
October 2015	Young women in Algebraic Geometry, Universität Bonn, Bonn
September 2015	University of Maine, Mathematics Colloquium and the Number theory seminar
July 2015	Contributed talks, Week 3, 2015 Algebraic Geometry Summer Institute, Utah
June 2015	Mathematics Colloquium, The Institute of Mathematical Sciences, Chennai
	Expository lectures
October 2017	An introduction to dynamical analogues of Mazur's theorem and uniform boundedness conjecture for abelian varieties, Random Algebra and Number Theory, Emory graduate student seminar
August 2016	Formal moduli for one-parameter formal Lie groups, West Coast Algebraic Topology Summer School (WCATSS)
May 2016	A p-adic proof of the transcendence of π , Pure Mathematics Graduate Student Seminar(PuMaGraSS)
	Compactifications of the moduli space of abelian varieties, Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)
May 2015	The Chabauty-Coleman method, Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)
•	Good reduction of abelian varieties, Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)
	<i>Mixed Tate motives over</i> $\mathbb Z$ <i>and multi-zeta values</i> , Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)
	Tannakian Categories, Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)
March 2014	The weight monodromy conjecture, Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)

April 2013	Fermat's last theorem for regular primes, Pure Mathematics Graduate Student Seminar (PuMaGraSS)
February 2013	Hodge Theory, Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)
November 2012	Hilbert's irreducibility theorem, Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)
October 2012	Rational points on curves, 18.725 Guest lecture
April 2012	<i>The fundamental group of an algebraic curve and the outer Galois action,</i> Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)
March 2012	The inverse Galois problem for $\mathbb{C}(t)$, Pure Mathematics Graduate Student Seminar (PuMaGraSS)
	Teaching
	Graduate Workshop in Algebraic Geometry for Women and Mathematicians of Minority Genders, Harvard and MIT. Teaching Assistant
Spring 2018	Math 4150: Elementary number theory and applications. Instructor
Fall 2017	Math 1553: Introduction to linear algebra. Instructor
Spring 2017	Math 6122: Introduction to Algebraic number theory. Instructor
Fall 2016	Math 1553: Introduction to linear algebra. Instructor
Spring 2016	18.726: Algebraic Geometry II. Grader
Spring 2015	18.786: Number Theory II . Grader
January 2015	Directed Reading Program. Mentor. Text: A course in arithmetic, by Jean-Pierre Serre
Fall 2014	18.821: Project Laboratory in Mathematics . Graduate student instructor
Spring 2014	18.781: Introduction to the theory of numbers. Teaching assistant
Spring 2014	18.726: Algebraic Geometry II. Grader
Spring 2013	18.726: Algebraic Geometry II. Grader
January 2013	Directed Reading Program. Mentor. Text: The arithmetic of elliptic curves, by Joseph Silverman
Fall 2012	18.725: Algebraic Geometry I. Grader
January 2012	Directed Reading Program. Mentor. Text: Riemann surfaces, by Otto Forster

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February 2018	Panel discussion at the Graduate Workshop in Algebraic Geometry for Women and Mathematicians of Minority Genders, Harvard and MIT, <i>Panelist</i>
May 2016	Panel discussion for graduate students on Life after quals: learning to do research, Organizer & moderator
Spring 2015	STAGE: Seminar on Topics in Arithmetic, Geometry, Etc., Co-organizer
2014–2015	MIT Friends of the Arts, Co-organizer
Spring 2013, Fall 2013	Mathematics department Transfer Credit Examiner
2012-2013	PuMaGraSS: Pure Mathematics Graduate Student Seminar, Co-organizer