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

	_	
17.00	olovment	L
	olovmeni	
		-

2016–current Hale Visiting Assistant Professor, Georgia Institute of Technology, Atlanta, GA.

Education

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 An arithmetic count of the lines meeting four lines in \mathbb{P}^3 (with Kirsten Wickelgren), *Submitted*, arxiv:1810.03503.
- 3 Explicit computation of Tamagawa numbers and sizes of component groups of Neron models of Jacobians using matrix-tree theorems, Thesis, Chapter 4.
- 4 Conductors and discriminants of hyperelliptic curves with rational Weierstrass points, *Submitted*, arxiv:1508.05172.
- 5 A virtually ample field that is not ample, Accepted by Israel Journal of Mathematics, arxiv.org:1810.05184.
- Zeta functions of a class of Artin-Schreier curves with many automorphisms (with Irene Bouw, Wei Ho, Beth Malmskog, Renate Scheidler and Christelle Vincent), Association for Women in Mathematics Series, 3. 2016. 87-124. 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 Karemaker and Isabel Vogt)

Upcoming talks

February Stanford university, Algebraic geometry seminar 2018

March 2019 AMS Spring Central and Western Joint Sectional Meeting, Honolulu, Hawaii, Special Session on Algebraic points April 2019 AMS Spring Eastern Joint Sectional Meeting, Hartford, Connecticut, Special Session on Mathematical cryptology Research talks and presentations January 2019 University of Georgia, Number theory seminar Joint Mathematics Meetings, AMS Special Session on Number Theory, Arithmetic January 2019 Geometry, and Computation December PANTS XXXI (Palmetto Number Theory Series), University of South Carolina. Invited 2018 postdoc speaker December Brown university, Algebra seminar 2018 University of Washington (Seattle), Number theory seminar November 2018 November University of Pennsylvania, Galois seminar 2018 October 2018 Northwestern university, Number theory seminar AMS Central Sectional Meeting, Columbus, Ohio, Special Session on Algebraic and March 2018 Combinatorial Aspects of Tropical Geometry Georgia Algebraic Geometry Symposium, Georgia Institute of Technology February 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 Georgia Institute of Technology, Algebra seminar December 2016 November Junior number theory days, Rutgers, Newark 2016 November Emory university, Algebra seminar 2016 October 2016 University of South Carolina, Algebraic geometry, arithmetic geometry and commutative algebra seminar TAAAG: Topological approaches to algebra and arithmetic geometry September 2016 April 2016 3rd Annual Graduate Student Math Conference in Algebra/Number Theory, Brown University Ohio State University, Number theory seminar February 2016 February University of Wisconsin, Madison, Number theory seminar 2016 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

Sontombor	University of Maine, Mathematics Colloquium and the Number theory seminar
2015	Offiversity of Marie, 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)
September 2014	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 (PuMa-GraSS)
	Teaching
Fall 2018	Math 1553: Introduction to linear algebra. Instructor
•	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
	Service
	Special session on Curves, Jacobians and Abelian Varieties at the AMS Spring South eastern Meeting, University of Virginia, <i>Co-organizer</i>
	GATTACA, GeorgiA Tech Tropical, Arithmetic and Combinatorial Algebraic geometry Conference, Georgia Institute of Technology, <i>Co-organizer</i>
February 2019	Arizona Winter School, University of Arizona, Study group on \mathbb{A}^1 -enumerative geometry, <i>Leader</i>
Fall 2018-Spring 2019	Georgia Tech Algebra seminar, Co-organizer
Fall 2018	Georgia Tech Algebra qualifying exam, Cowriter
February 2018	Panel discussion at the Graduate Workshop in Algebraic Geometry for Women and Mathematicians of Minority Genders, Harvard and MIT, <i>Panelist</i>
Fall 2017	Georgia Tech Algebra qualifying exam, Cowriter
May 2016	Panel discussion for graduate students on Life after quals: learning to do research <i>Organizer & moderator</i>
	STAGE: Seminar on Topics in Arithmetic, Geometry, Etc., <i>Co-organizer</i> MIT Friends of the Arts, <i>Co-organizer</i>

Spring 2013, Mathematics department Transfer Credit Examiner Fall 2013

2012–2013 PuMaGraSS: Pure Mathematics Graduate Student Seminar, Co-organizer