Padmavathi Srinivasan

Employment	ent	Employm	
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2019–current Limited Term Assistant Professor, University of Georgia, Athens, GA.

2016–2019 Hale Visiting Assistant Professor, Georgia Institute of Technology, Atlanta, GA.

Visiting Positions

July 2019 **Research in pairs**, *Mathematisches Forschungsinstitut Oberwolfach (MFO, Oberwolfach Research Institute for Mathematics)*, Oberwolfach, Germany.

Education

2011–2016 **PhD in Mathematics**, Massachusetts Institute of Technology, Cambridge, MA.

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 in odd residue characteristic, *In preparation*.
- 2 Conductors and minimal discriminants of hyperelliptic curves: a comparison in the tame case, *In preparation*.
- 3 An arithmetic count of the lines meeting four lines in \mathbb{P}^3 (with Kirsten Wickelgren), *Submitted*, arxiv:1810.03503.
- 4 Explicit computation of Tamagawa numbers and sizes of component groups of Neron models of Jacobians using Matrix-Tree theorems, Thesis, Chapter 4.
- 5 A virtually ample field that is not ample, *Accepted by Israel Journal of Mathematics.*, arxiv.org:1810.05184.
- 6 Conductors and discriminants of hyperelliptic curves with rational Weierstrass points, *Submitted*, arxiv:1508.05172.
- 7 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

Conference organization

March 2020	AMS Special Session on Curves, Jacobians, and Abelian Varieties at the AMS Spring Southeastern Sectional Meeting (Co-organizing with Andrew Obus and Tony Shaska)
	Past conferences that I have helped organize
June 2019	AMS Mathematical Research Communities, Explicit methods in arithmetic geometry in characteristic <i>p</i> (Co-organized with Renee Bell, Julia Hartmann, Valentijn Karemarker and Isabel Vogt)
March 2019	GATTACA: GeorgiA Tech Tropical, Arithmetic and Combinatorial Algebraic geometry (Co-organized with Matt Baker, Philipp Jell, and Yoav Len.)
	Upcoming talks
August 2019	University of Georgia, Oberseminar
	AMS Fall Central Sectional Meeting, University of Wisconsin-Madison, Special Session on Geometry and Topology in Arithmetic
September 2019	MANTIS: Michigan Algebra and Number Theory Intercity Symposium, University of Michigan
November 2019	MAAIM-Modular forms, Arithmetic, and Women, Emory university
November 2019	Front Range Number Theory Day, Colorado State University
January 2020	Joint Mathematics Meetings, AMS Special Session on Rational Points on Algebraic Varieties: Theory and Computation
	Research talks and presentations
July 2019	University of Groningen, Number theory seminar
June 2019	Arithmetic of Low-Dimensional Abelian Varieties, ICERM, Lightning talk
April 2019	AMS Spring Eastern Sectional Meeting, University of Connecticut Hartford, Special Session on Mathematical Cryptology, University of Connecticut Hartford
March 2019	AMS Spring Central and Western Joint Sectional Meeting, University of Hawai'i at Mānoa, Special Session on Algebraic Points
February 2019	Braids, Resolvent Degree and Hilbert's 13th Problem, IPAM, Lightning talk
February 2019	Stanford university, Algebraic geometry Seminar
January 19	Joint Mathematics Meetings, AMS Special Session on Number Theory, Arithmetic Geometry, and Computation
December 2018	Brown university, Algebra seminar
November 2018	University of Washington (Seattle), Number theory seminar
November 2018	University of Pennsylvania, Galois seminar
October 2018	Northwestern university, Number theory seminar
March 2018	AMS Central Sectional Meeting, Columbus, Ohio, Special Session on Algebraic and Combinatorial Aspects of Tropical Geometry

February 2018	Georgia Algebraic Geometry Symposium, Georgia Institute of Technology
	AMS Central Sectional Meeting, Denton, Texas, Special Session on Numbers, Functions, Transcendence, and Geometry
January 2017	Joint Mathematics Meetings, AMS Special Session on Minimal integral models of algebraic curves
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
	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
	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)
February	Good reduction of abelian varieties, Seminar on Topics in Arithmetic, Geometry, Etc.(STAGE)

	<i>Mixed Tate motives over</i> 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 (PuMaGraSS)
	Teaching
Fall 2019	Math 2250: Calculus for science and engineering. Instructor
March 2018	Arizona Winter School, \mathbb{A}^1 -enumerative geometry course by Kirsten Wickelgren. Study group leader
Spring 2019	Math 6122: Graduate algebra 2, Galois theory and algebraic number theory. Instructor
Fall 2018	Math 1553: Introduction to linear algebra. Instructor
February 17-18, 2018	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: Graduate algebra 2: 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 Fall 2018 Georgia Tech Algebra seminar, Co-organizer Fall 2018 Algebra qualifying exam, Cowriter February Panel discussion at the Graduate Workshop in Algebraic Geometry for Women and 2018 Mathematicians of Minority Genders, Harvard and MIT, Panelist Fall 2017 Algebra qualifying exam, Cowriter 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, Mathematics department Transfer Credit Examiner Fall 2013

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