

SHEELA DEVADAS

sheelad.math@gmail.com

EDUCATION

S.B. in Mathematics	Massachusetts Institute of Technology, Cambridge, MA	6/2015
Ph.D. in Mathematics	Stanford University, Stanford, CA	1/2021

EMPLOYMENT

Visiting Scientist	Massachusetts Institute of Technology, Cambridge, MA	1/2025 -
NSF Postdoctoral Fellow	University of Washington, Seattle, WA	9/2021 - 9/2024

PUBLICATIONS & PREPRINTS

- (With Lieblich, M.) Higher-weight Jacobians. (2024) arXiv.
- GAGA for Henselian schemes. (2023) arXiv.
- Henselian schemes in positive characteristic. (2022) arXiv.
- (With Sun, Y.) The polynomial representation of the type A_{n-1} rational Cherednik algebra in characteristic $p \mid n$. *Communications in Algebra*, 45(5), 1926-1934. (2017) doi: 10.1080/00927872.2016.1226866. arXiv.
- (With Rubinfeld, R.) A Self-Tester for Linear Functions over the Integers with an Elementary Proof of Correctness. *Theory of Computing Systems*. (2014) doi: 10.1007/s00224-015-9639-z. arXiv.
- (With Sam, S. V.) Representations of rational Cherednik algebras of $G(m, r, n)$ in positive characteristic. *Journal of Commutative Algebra*, 6(4), 525-559. (2014) doi: 10.1216/JCA-2014-6-4-525. arXiv.

FELLOWSHIPS & AWARDS

National Science Foundation Mathematical Sciences Postdoctoral Research Fellowship	National Science Foundation (NSF)	2021
NSF Graduate Research Fellowship	NSF	2015
Stanford Graduate Fellowship	Stanford University	2015
Enhancing Diversity in Graduate Education Doctoral Fellowship	Stanford University	2015
Alice T. Schafer Mathematics Prize for Excellence in Mathematics by an Undergraduate Woman	Association for Women in Mathematics	2015

TEACHING

MATH 403	Introduction to Modern Algebra (Group Theory) University of Washington (UW)	3/2024 - 6/2024
MATH 402	Introduction to Modern Algebra (Ring Theory) UW	1/2024 - 3/2024
MATH 402 & 403	Introduction to Modern Algebra UW	1/2023 - 6/2023

ASSISTANTSHIPS

Course Assistant	Southwest Center for Arithmetic Geometry Arizona Winter Semester: Virtual School in Number Theory Quadratic Forms and the Local-Global Principle	3/2021 - 5/2021
Administrative Teaching Assistant	Stanford University MATH 51 Linear Algebra, Multivariable Calculus and Modern Applications	9/2020 - 12/2020
Graduate Teaching Assistant	Stanford University MATH 61DM Modern Mathematics: Discrete Methods	9/2018 - 12/2018
	Stanford University MATH 51 Linear Algebra and Differential Calculus in Several Variables	9/2017 - 12/2017

MENTORING EXPERIENCE

Research Mentor	Program for Research in Mathematics, Engineering, and Science for High School Students MIT (Mass. Inst. of Technology)	1/2025 -
	<ul style="list-style-type: none">• Suggested and defined a research problem in number theory• Mentored and guided a high school student in this research	
Lead Research Mentor	Program in Mathematics for Young Scientists Boston University	7/2018 - 8/2018
	<ul style="list-style-type: none">• Mentored undergraduate counselors and high school students working on ten mathematics research projects in number theory, combinatorics, discrete probability, and other subfields• Co-lead mentor with David Fried	
Research Mentor	Program for Research in Mathematics, Engineering, and Science for High School Students MIT	1/2016 - 12/2016
	<ul style="list-style-type: none">• Mentored and guided a high school student in research in combinatorial geometry• Supervised by Prof. Ravi Vakil of Stanford University	

INVITED TALKS

Algebraic Geometry Seminar	Brown University	2/28/2025
Algebra, Geometry, and Number Theory Seminar	Tufts University	1/30/2025
Number Theory Seminar	Boston University	11/11/2024
Colloquium - <i>Brauer containers</i>	IDA CCR-Princeton	3/28/2024
Algebra and Algebraic Geometry Seminar	UW	11/2/2021

OTHER SEMINARS

Number Theory Learning Seminar	Stanford University	2/14/2018
Number Theory Learning Seminar	Stanford University	2/22/2017

CONFERENCES & WORKSHOPS

Collaborative Workshop in Algebraic Geometry	Institute for Advanced Study Princeton, NJ Experiments with Ceresa cycles of low genus curves	6/2024
FRG workshop on Brauer groups and derived categories	Northwestern University Evanston, IL	10/2023
Stacks Project Workshop	University of Michigan Ann Arbor, MI Solid Modules and Coherent Duality	8/2023
Mathematical Sciences Research Institute (MSRI) Summer Graduate School	MSRI Berkeley, CA Automorphic Forms and the Langlands Program	7/2017 - 8/2017

OUTREACH

Alumni Panel for Parents	Math Prize for Girls Competition Cambridge, MA	10/2024
Graduate Student Panel	Southwest Center for Arithmetic Geometry Arizona Winter Semester: Virtual School in Number Theory	4/2021