

# SHEELA DEVADAS

sheelad@uw.edu

## EDUCATION

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

## EMPLOYMENT

NSF Postdoctoral Fellow	University of Washington, Seattle, WA	9/2021 - 9/2024
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## PUBLICATIONS & PREPRINTS

- (With Lieblich, M.) Cohomological containers. (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

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

## ASSISTANTSHIPS

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

## MENTORING EXPERIENCE

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

## CONFERENCES & WORKSHOPS

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

## INVITED TALKS

Automorphic Forms and Arithmetic Seminar	Columbia University, New York City, NY	<b>11/15/2024</b>
Colloquium <i>Brauer containers</i>	Center for Communications Research, Princeton, NJ	<b>3/28/2024</b>