

SHEELA DEVADAS

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EDUCATION

S.B. in Mathematics	Massachusetts Institute of Technology, Cambridge, MA	6/15
Ph.D. in Mathematics	Stanford University, Stanford, CA	1/21

EMPLOYMENT

NSF Postdoctoral Fellow	University of Washington, Seattle, WA	9/21-
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PUBLICATIONS

- GAGA for Henselian schemes. In preparation.
- Henselian schemes in positive characteristic. (2022) arXiv.
- Morphisms and cohomological comparison for Henselian schemes. Stanford University Ph.D. thesis (2020), advised by Prof. Brian Conrad. In the Stanford Digital Repository.
- (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 & MENTORING EXPERIENCE

Course Assistant Quadratic Forms and the Local-Global Principle **3/21-5/21**
Arizona Winter Semester: Virtual School in Number Theory
Southwest Center for Arithmetic Geometry

- Wrote problem sets and led problem sessions online for students
- Course instructor was Dr. Charlotte Chan

Administrative Teaching Assistant Linear Algebra, Multivariable Calculus. **9/20-12/20**
and Modern Applications
Stanford University (MATH 51)

- Course instructors were Dr. Christine Taylor and Dr. Saraswathi Venkatesh

Graduate Teaching Assistant Modern Mathematics: Discrete Methods **9/18-12/18**
Stanford University (MATH 61DM)

- Course instructor was Prof. Jacob Fox

Lead Research Mentor Program in Mathematics for Young Scientists **7/18-8/18**
Boston University

- 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

Graduate Teaching Assistant Linear Algebra and Differential Calculus **9/17-12/17**
in Several Variables
Stanford University (MATH 51)

- Course instructors were Prof. Ralph Cohen and Dr. Mark Lucianovic

Research Mentor Program for Research in Mathematics, **1/16-12/16**
Engineering, and Science for High School Students

- Mentored and guided a high school student in research in combinatorial geometry
- Supervised by Prof. Ravi Vakil of Stanford University