

Sarasij Maitra

Curriculum Vitae

110 Kerchof Hall
Department of Mathematics, UVa
141 Cabell Drive, PO Box 400137
Charlottesville, VA 22904-4137 USA
[Personal Webpage](#)
✉ sm3vg@virginia.edu

Education

- 2016–present **PhD in Mathematics**, *University of Virginia*.
2014–2016 **M.Math**, *Indian Statistical Institute*, Kolkata.
2011–2014 **B.Math**, *Indian Statistical Institute*, Bangalore.

Papers and Preprints

- **On Reflexive and I -Ulrich Modules over Curve Singularities**, with H. Dao, P. Sridhar.
- **Partial Trace Ideals and Berger's Conjecture** (submitted)

Awards and Achievements

- **All-University Graduate Teaching Award, University of Virginia, 2019-2020.**
- (2019) Travel Grant for Mathematical Sciences Research Institute 883 Commutative Algebra and its Interaction with Algebraic Geometry.
- 1st Division with Distinction in M. Math.
- 1st Division with Distinction in B. Math.

Software

- *RandomRationalPoints*, (Macaulay 2), with S. Bisui, T. Nguyen, K. Schwede, Z. Jiang.
- *SwitchingFields*, (Macaulay 2), with Z. Jiang.

Invited Talks and Poster Presentations

- January 2021 **Discussions on Berger's Conjecture.**
Joint Mathematics Meetings
- October 2020 **A Study of Colength in Dimension One.**
Commutative and Homological Algebra Market Presentations (CHAMP)
- June 2020 **Poster: An Approach to Berger's Conjecture.**
Early Commutative Algebra Researchers (eCARs)
- June 2020 **A Simple Study of Colength.**
Graduate Student Seminar, New Mexico State University

March 2020 **"Berger's Conjecture from the Viewpoint of an Invariant of the Module of Differentials"–An Approach to Berger's Conjecture.**
A Zoom Session on Commutative Algebra

Teaching

Fall 2020 **Graduate Teaching Instructor, University of Virginia.**
MATH 1320-200 Calculus II (Online Flipped Model)

Fall 2019 **Graduate Teaching Instructor, University of Virginia.**
MATH 1310-001 Calculus I (Flipped Model)

Spring 2019 **Graduate Teaching Instructor, University of Virginia.**
MATH 1220-009 A Survey of Calculus II

Spring 2018 **Graduate Teaching Instructor, University of Virginia.**
MATH 1210-008 A Survey of Calculus I

Fall 2017 **Graduate Teaching Instructor, University of Virginia.**
MATH 1210-007 A Survey of Calculus I

Spring 2017 **Graduate Teaching Assistant, University of Virginia.**
MATH 1310-100 Calculus I, MATH 3250-300 Ordinary Differential Equations

Fall 2016 **Graduate Teaching Assistant, University of Virginia.**
MATH 1310-500, MATH 1310-700 Calculus I

Conferences Attended

January, 2021 **Joint Mathematics Meetings.**

June, 2020 **eCARs, Early Commutative Algebra Researchers.**

April, 2020 **CAZoom - Virtually bringing together commutative algebra and related fields.**

March, 2020 **A Zoom Special Session On Commutative Algebra.**

June, 2019 **Conference on Commutative Algebra and its Interaction with Algebraic Geometry In Honor of Bernd Ulrich.**
University of Notre Dame, Indiana

Apr, 2019 **Morgantown Algebra Days.**
West Virginia University, Morgantown, West Virginia

Oct, 2018 **Fall Central Sectional Meeting.**
University of Michigan, Ann Arbor, Ann Arbor, MI

Mar, 2018 **Mini Workshop.**
University of Virginia

Nov, 2017 **Workshop on Topics in Algebraic Geometry.**
University of North Carolina, Chapel Hill

Other Projects

January, 2016 – May, 2016 Project on Bargaining Games with Time-Independent and Time-Dependent Preferences under Prof. Souvik Roy of Indian Statistical Institute, Kolkata. [[Project Report Link](#)]

December, 2014 Reading Project on Hopf Algebra under Prof. Jyotishman Bhowmick of Indian Statistical Institute, Kolkata.

May, 2013 – July, 2013 Indian Academy of Sciences Summer Project on Algebraic Geometry under Prof. Kapil Hari Paranjape at Indian Institute of Science Education and Research, Mohali. [[Project Report Link](#)]

Skills

Language English, Bengali, Hindi

Skills

Technologies Workable knowledge in Macaulay 2, \LaTeX , Python, R, HTML