# Deewang Bhamidipati

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**CONTACT INFORMATION**

Mathematics Department
University of California, Santa Cruz

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Website: bdeewang.com

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**EDUCATION**

**University of California, Santa Cruz**
PH.D. IN MATHEMATICS
Advisor: *Martin Weissman*

*California, USA*
Sep 2019 – *present*

M.A. IN MATHEMATICS

Aug 2020

**Higher School of Economics**
M.SC. IN MATHEMATICS
Advisor: *Vadim Vologodsky*

*Moscow, Russia*
Jun 2019

**Shiv Nadar University**
B.SC. (RESEARCH) IN MATHEMATICS
Specialisation in Applied Algebra

*Uttar Pradesh, India*
May 2016

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**INVITED TALKS**

**Frobenius Trace Distributions informed by Angle Rank**
*Joint Mathematics Meetings, Boston, MA*

Jan 2023

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**INTERNAL TALKS**

***REMOTE**

**A Point is Worth a Shape: Introducing Moduli Spaces**
*Undergraduate Student Colloquium, University of California, Santa Cruz*

Feb 2023

**Angle Ranks and Frobenius Distributions***
*Graduate Student Colloquium, University of California, Santa Cruz*

Nov 2022

**LaTeX Workshop**
*Undergraduate Student Colloquium, University of California, Santa Cruz*

Oct 2022

**Some Invariants of Abelian Varieties over Finite Fields**
*Graduate Student Colloquium, University of California, Santa Cruz*

Oct 2022

**LaTeX Workshop, Parts I & II**
*Undergraduate Student Colloquium, University of California, Santa Cruz*

Apr 2022

**Cohomology on Sites***
*Graduate Student Colloquium, University of California, Santa Cruz*

Jan 2022

**Fundamental Groups: Topological, Étale, Tannakian***
*Graduate Student Colloquium, University of California, Santa Cruz*

Oct 2021

**Demystifying the $p$-adics***
*Graduate Student Colloquium, University of California, Santa Cruz*

Nov 2020

**A First Introduction to Motivic Integration**
*Geometric Structures on Manifolds Seminar, Higher School of Economics*

Jun 2019

**$p$-adic Integration and Betti Numbers of Calabi-Yau Varieties**
*Geometric Structures on Manifolds Seminar, Higher School of Economics*

Dec 2018

**Mordell's Theorem**
*Graduate Student Seminar, Higher School of Economics*

May 2018

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| | **What is... a scheme?***<br>*What is... a seminar?*<br><br>**A Non-Archimedean Volume of Hilbert Scheme of Points**<br>*The Mathematics Society Seminar, Shiv Nadar University* | Oct 2021<br><br><br>Aug 2019 |

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**PROGRAMMES, WORKSHOPS & CONFERENCES** (selected)

*REMOTE

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|---|---|
| **Introductory Workshop: Diophantine Geometry**<br>*MSRI/SLMath, Berkeley, USA* | Feb 2023 |
| **Joint Mathematics Meetings**<br>*Boston, USA* | Jan 2023 |
| **Rethinking Number Theory***<br>Project Leader: *Maria Fox* | Jun – Jul 2022 |
| *Automorphic Forms Beyond* $\mathrm{GL}_2$**, Arizona Winter School**<br>*University of Arizona, Tuscon, USA* | Mar 2022 |
| **PCMI Graduate Summer School***<br>*Number Theory Informed by Computation* (Week 3)<br>*Motivic Homotopy Theory* (Week 1)<br>*IAS/PCMI, Park City, Utah, USA* | Jul 2021 |
| **Rethinking Number Theory***<br>Project Leader: *Soumya Sankar* | Jul 2021 |
| *Sparsity of Algebraic Points*, **MSRI Summer Graduate School***<br>*MSRI, Berkeley, USA* | Jun 2021 |
| **Rational Points and Galois Representations***<br>*University of Pittsburgh, USA* | May 2021 |
| **Unlikely intersections, Diophantine geometry, and related fields***<br>*University of Reading, UK* | Apr 2021 |
| **Connecticut Summer School in Number Theory (CTNT)***<br>*University of Connecticut, Connecticut, USA* | Jun 2020 |

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**TEACHING**

*REMOTE

**UNIVERSITY OF CALIFORNIA, SANTA CRUZ**

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|---|---|---|
| *Instructor of Record* | **MATH 11B – Calculus with Applications** | Summer 2022* |
| | **MATH 100 – Introduction to Proof and Problem Solving** | Summer 2022* |
| | **MATH 103A – Complex Analysis** | Spring 2022 |
| | **MATH 110 – Introduction to Number Theory** | Fall 2021 |
| | **MATH 110 – Introduction to Number Theory** | Summer 2021* |
| | **MATH 105A – Real Analysis** | Fall 2020* |
| | **MATH 3 – Precalculus** | Summer 2020* |
| *Teaching Assistant* | **MATH 288B – Pedagogy of Mathematics (GSI)** | Winter 2023 |
| | **MATH 19A – Calculus for Sci., Eng., and Math.** | Fall 2022 |
| | **MATH 11A – Calculus with Applications** | Winter 2022 |
| | **MATH 111T – Algebra**<br>(Fellowship under SEMILLA Teach) | Spring 2021* |
| | **MATH 100 – Introduction to Proof and Problem Solving**<br>(Fellowship under SEMILLA Teach) | Winter 2021* |
| | **MATH 3 – Precalculus** | Spring 2020* |
| | **MATH 181 – History of Mathematics** | Winter 2020 |
| | **MATH 3 – Precalculus** | Fall 2019 |

**SHIV NADAR UNIVERSITY**

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|---|---|---|
| *Teaching Assistant* | **MAT260 – Linear Algebra** | Fall 2015 |
| *Tutor*, LASC | **MAT260 – Linear Algebra** | Spring 2015 |
| | **MAT284 – Probability and Statistics** | Spring 2015 |
| | **MAT101 – Calculus I** | Fall 2014 |
| | LASC = Learning & Academic Support Centre | |

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**SERVICE & ORGANISING**

**UNIVERSITY OF CALIFORNIA, SANTA CRUZ**

**Head TA**, for mentorship and support
*Head TA Team*, Mathematics Department

Jul 2022 – *present*

**Directed Reading Program**
*Organiser*, co-organising with David Rubinstein

Aug 2021 – Jun 2024

**Association for Women in Mathematics Chapter**
*President*
*General Secretary*

Sep 2022 – Aug 2023
Nov 2020 – Aug 2022

**Mathematics Department Peer Support Program**
*Organiser*, co-organising with Jennifer Guerrero, David Rubinstein, Ryan Pugh

Aug 2021 – Jun 2023

**Graduate Student Colloquium, Mathematics Department**
*Organiser*, co-organised with David Rubinstein

Dec 2020 – Jun 2022

**Category Theory Learning Seminar**
*Organiser*, co-organised with Vaibhav Sutrave, David Rubinstein

Winter – Spring 2022

**Reading Groups**, *Organiser*

- **Topological Data Analysis**
  co-organised with David Rubinstein

Winter 2023

- **Stacks**

Fall 2022

- **Étale Cohomology**
  co-organised with Shane Kennerly, Malachi Alexander

Fall 2021

- **Étale Homological Algebra**
  co-organised with Vaibhav Sutrave, Malachi Alexander

Spring 2021

- **A Course in Arithmetic by J.-P.Serre**

Winter, Summer 2020

**Mathematics Department DEI Committee**
*Graduate Student Member*

Oct 2020 – Jun 2022

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**OUTREACH**

**UNIVERSITY OF CALIFORNIA, SANTA CRUZ**

**Directed Reading Program**

- *Mentor*, Brooke Zhang
  COMBINATORIAL DESIGNS

Fall 2022

- *Mentor* (with David Rubinstein), Kenneth Gee
  THE (CURRY–HOWARD–)LAMBEK CORRESPONDENCE

Summer – Fall 2022

- *Mentor*, Miles Mitchell
  AFFINE ALGEBRAIC GROUPS AND HOPF ALGEBRAS

Spring 2022

- *Mentor*, Morea Lee
  GALOIS THEORY OVER $\mathbf{Q}$

Winter 2022

- *Mentor*, Yijia Sun
  LINEAR ERROR CORRECTION CODES

Fall 2021

- *Mentor*, Anna Yoon
  ELLIPTIC CURVE CRYPTOGRAPHY                                          Winter 2020

**Panelist,** *The Roles and Contributions of TAs*
*Graduate Preparation Program*                                      Aug 2022, 2021

## Twoples

- *Mentor*, Lillian Frey (Binghamton University)
  INTRODUCTION TO CODING THEORY: LINEAR CODES               Sep – Dec 2022
- *Mentor*, Lalit Mohan Sharma (University of Delhi)
  NUMBER THEORY OF NUMBER FIELDS: CLASS GROUPS              Jan – Apr 2022
  INTRODUCTION TO ALGEBRAIC GEOMETRY: VARIETIES            Aug – Dec 2021
- *Mentor*, Bowen Li (Carleton College)
  JOURNEY THROUGH CATEGORY THEORY                             Jan – Apr 2022

**Panelist,** *Graduate Student Perspectives: A Year in Review*
*Lunch in the Time of COVID*                                            May 2021

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**PEDAGOGICAL & PROFESSIONAL DEVELOPMENT**

**UNIVERSITY OF CALIFORNIA, SANTA CRUZ**

**Equity-Minded Mentoring for Graduate Students Certificate Program**
*Center for Innovations in Teaching and Learning*                      Spring 2023

**Graduate Student Researcher,** *Redesigning Calculus in the Life Sciences*
*Mathematics Department & Center for Innovations in Teaching and Learning*   Summer 2021
Fellowship under the GANAS-Career Pathways grant

**Summer Graduate Student Instructor Peer Support Team**
*Center for Innovations in Teaching and Learning*                  Spring – Summer 2021

**Preparing for Inclusive Teaching**
*Center for Innovations in Teaching and Learning*                     Sep 2020, 2019

**Integrated Course Design for Remote Instruction**
*Online Education (OE)*                                                Spring 2020

**Course Design & Delivery Certificate Program**
*Center for Innovations in Teaching and Learning*                     Spring 2020

**Teaching for Equity Certificate Program**
*Center for Innovations in Teaching and Learning*                     Spring 2020

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**AWARDS, GRANTS & SCHOLARSHIPS**

**State Funded Scholarship, Higher School of Economics**               2017 – 2019

**Full Merit Scholarship, Shiv Nadar University**                      2012 – 2016

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**MEMBERSHIPS**

**Association for Women in Mathematics**                      Feb 2021 – *present*

**American Mathematical Society**                             Oct 2019 – *present*

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**LANGUAGES**

English, Hindi (Hindustani), Telugu, Japanese (Beginner)

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