

CONTACT INFORMATION	Mathematics Department University of California, Santa Cruz	Email: bdeewang@ucsc.edu Website: bdeewang.com
EDUCATION	<b>University of California, Santa Cruz</b> PH.D. IN MATHEMATICS Advisor: <i>Juncue Suh</i> M.A. IN MATHEMATICS  <b>Higher School of Economics</b> M.SC. IN MATHEMATICS Advisor: <i>Vadim Vologodsky</i>  <b>Shiv Nadar University</b> B.SC. (RESEARCH) IN MATHEMATICS Specialisation in Applied Algebra	California, USA Sep 2019 – present   Aug 2020  Moscow, Russia Jun 2019  Uttar Pradesh, India May 2016
INTERNAL TALKS	<b>Some Invariants of Abelian Varieties over Finite Fields</b> <i>Graduate Student Colloquium, University of California, Santa Cruz</i>  <b>L<sup>A</sup>T<sub>E</sub>X Workshops, I &amp; II</b> <i>Undergraduate Student Colloquium, University of California, Santa Cruz</i>  <b>Cohomology on Sites*</b> <i>Graduate Student Colloquium, University of California, Santa Cruz</i>  <b>Fundamental Groups: Topological, Étale, Tannakian*</b> <i>Graduate Student Colloquium, University of California, Santa Cruz</i>  <b>Demystifying the <math>p</math>-adics*</b> <i>Graduate Student Colloquium, University of California, Santa Cruz</i>  <b>A First Introduction to Motivic Integration</b> <i>Geometric Structures on Manifolds Seminar, Higher School of Economics</i>  <b><math>p</math>-adic Integration and Betti Numbers of Calabi-Yau Varieties</b> <i>Geometric Structures on Manifolds Seminar, Higher School of Economics</i>  <b>Mordell's Theorem</b> <i>Graduate Student Seminar, Higher School of Economics</i>	Oct 2022  Apr 2022  Jan 2022  Oct 2021  Nov 2020  Jun 2019  Dec 2018  May 2018
EXTERNAL TALKS	<b>What is... a scheme?*</b> <a href="#">What is... a seminar?</a>  <b>A Non-Archimedean Volume of Hilbert Scheme of Points</b> <i>The Mathematics Society Seminar, Shiv Nadar University</i>	Oct 2021  Aug 2019
PROGRAMMES, WORKSHOPS & CONFERENCES (selected)	<b>Rethinking Number Theory*</b> <b>Topic:</b> <i>Ekedahl-Oort Strata for Abelian Varieties</i> <b>Leader:</b> <i>Maria Fox</i>  <b><i>Automorphic Forms Beyond <math>GL_2</math></i>, Arizona Winter School</b> <i>University of Arizona, Tuscon, USA</i>	Jun – Jul 2022  Mar 2022

\*REMOTE

<b>PCMI Graduate Summer School*</b> <i>Number Theory Informed by Computation</i> (Week 3) <i>Motivic Homotopy Theory</i> (Week 1) IAS/PCMI, Park City, Utah, USA	Jul 2021
<b>Rethinking Number Theory*</b> <b>Topic:</b> <i>Invariants of <math>p</math>-torsion in characteristic <math>p</math></i> <b>Leader:</b> <i>Soumya Sankar</i>	Jul 2021
<i>Sparsity of Algebraic Points</i> , MSRI Summer Graduate School* MSRI, Berkeley, California, USA	Jun 2021
<b>Connecticut Summer School in Number Theory (CTNT)*</b> University of Connecticut, Connecticut, USA	Jun 2020

## TEACHING

\*REMOTE

### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

<i>Instructor of Record</i>	<b>MATH 11B – Calculus with Applications</b>	Summer 2022*
	<b>MATH 100 – Introduction to Proof and Problem Solving</b>	Summer 2022*
	<b>MATH 103A – Complex Analysis</b>	Spring 2022
	<b>MATH 110 – Introduction to Number Theory</b>	Fall 2021
	<b>MATH 110 – Introduction to Number Theory</b>	Summer 2021*
	<b>MATH 105A – Real Analysis</b>	Fall 2020*
	<b>MATH 3 – Precalculus</b>	Summer 2020*
<i>Teaching Assistant</i>	<b>TBD</b>	Fall 2022
	<b>MATH 11A – Calculus with Applications</b>	Winter 2022
	<b>MATH 111T – Algebra</b> (Fellowship under SEMILLA Teach)	Spring 2021*
	<b>MATH 100 – Introduction to Proof and Problem Solving</b> (Fellowship under SEMILLA Teach)	Winter 2021*
	<b>MATH 3 – Precalculus</b>	Spring 2020*
	<b>MATH 181 – History of Mathematics</b>	Winter 2020
	<b>MATH 3 – Precalculus</b>	Fall 2019

### SHIV NADAR UNIVERSITY

<i>Teaching Assistant</i>	<b>MAT260 – Linear Algebra</b>	Fall 2015
<i>Tutor, LASC</i>	<b>MAT260 – Linear Algebra</b>	Spring 2015
	<b>MAT284 – Probability and Statistics</b>	Spring 2015
	<b>MAT101 – Calculus I</b>	Fall 2014
	LASC = Learning & Academic Support Centre	

## SERVICE & ORGANISING

### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

#### Head Support-TA

*Head TA Team*, Mathematics Department Jul 2022 – *present*

#### Mathematics Department Peer Mentorship Program

*Organiser*, co-organising with David Rubinstein, Jennifer Guerrero, Ryan Pugh Aug 2021 – *present*

#### Directed Reading Program

*Organiser*, co-organising with Nathan Marianovsky Aug 2021 – *present*

#### Association for Women in Mathematics Chapter

*Member, Organising Committee* Nov 2020 – Aug 2022

<b>Graduate Student Colloquium, Mathematics Department</b> <i>Organiser, co-organised with David Rubinstein</i>	Dec 2020 – Jun 2022
<b>Category Theory Learning Seminar</b> <i>Organiser, co-organised with Vaibhav Sutrave, David Rubinstein</i>	Winter – Spring 2022
<b>Mathematics Department DEI Committee</b> <i>Graduate Student Member</i>	Oct 2020 – Jun 2022
<b>Graduate Student Researcher, Redesigning Calculus in the Life Sciences</b> <i>Mathematics Department</i> <i>&amp; Center for Innovations in Teaching and Learning (CITL)</i> <i>Fellowship under the GANAS-Career Pathways grant</i>	Summer 2021
<b>Summer GSI (Graduate Student Instructor) Peer Support Team</b> <i>Center for Innovations in Teaching and Learning (CITL)</i>	Spring – Summer 2021

## OUTREACH

### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

#### Directed Reading Program

<i>Mentor</i> (with David Rubinstein), Kenneth Gee THE (CURRY–HOWARD–)LAMBK CORRESPONDENCE	Summer – Fall 2022
<i>Mentor</i> , Miles Mitchell AFFINE ALGEBRAIC GROUPS AND HOPF ALGEBRAS	Spring 2022
<i>Mentor</i> , Morea Lee GALOIS THEORY OVER $\mathbf{Q}$	Winter 2022
<i>Mentor</i> , Yijia Sun LINEAR ERROR CORRECTION CODES	Fall 2021
<i>Mentor</i> , Anna Yoon ELLIPTIC CURVE CRYPTOGRAPHY	Winter 2020
<b>Panelist, The Roles and Contributions of TAs</b> <i>Graduate Preparation Program 2021</i>	Aug 2021

#### Twoples

<i>Mentor</i> , Lalit Mohan Sharma (University of Delhi) NUMBER THEORY OF NUMBER FIELDS: CLASS GROUPS	Jan – Apr 2022
INTRODUCTION TO ALGEBRAIC GEOMETRY: VARIETIES	Aug – Dec 2021
<i>Mentor</i> , Bowen Li (Carleton College) JOURNEY THROUGH CATEGORY THEORY	Jan – Apr 2022
<b>Panelist, Graduate Student Perspectives: A Year in Review</b> <i>Lunch in the Time of COVID</i>	May 2021

## PROFESSIONAL DEVELOPMENT

### UNIVERSITY OF CALIFORNIA, SANTA CRUZ

#### Preparing for Inclusive Teaching

<i>Center for Innovations in Teaching and Learning (CITL)</i> <i>&amp; Hispanic Serving Institution (HSI) Initiatives</i>	Sep 2020, 2019
<b>Integrated Course Design for Remote Instruction</b> <i>Online Education (OE)</i>	Spring 2020
<b>Graduate Certificate in Course Design &amp; Delivery</b> <i>Center for Innovations in Teaching and Learning (CITL)</i>	Spring 2020
<b>Graduate Certificate in Teaching for Equity</b> <i>Center for Innovations in Teaching and Learning (CITL)</i>	Spring 2020

AWARDS & 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 – <i>present</i>
	American Mathematical Society	Oct 2019 – <i>present</i>
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LANGUAGES	English, Hindi (Hindustani), Telugu, Japanese (Beginner)	