CONTACT INFORMATION	Mathematics Department Email: bdeewang@ucsc.edu University of California, Santa Cruz Website: bdeewang.com	1
EDUCATION	University of California, Santa Cruz Ph.D. IN MATHEMATICS Advisor: Juncue Suh	California, USA Sep 2019 – present
	M.A. IN MATHEMATICS	Aug 2020
	Higher School of Economics M.SC. IN MATHEMATICS Advisor: Vadim Vologodsky	<i>Moscow, Russia</i> Jun 2019
	Shiv Nadar University B.Sc. (RESEARCH) IN MATHEMATICS Specialisation in Applied Algebra	Uttar Pradesh, India May 2016
INVITED TALKS	Frobenius Trace Distributions informed by Angle Rank Joint Mathematics Meetings 2023	Jan 2023
Internal Talks	Frobenius Distributions of Abelian Varieties over Finite Fields Graduate Student Colloquium, University of California, Santa Cruz	Nov 2022
*REMOTE	LATEX Workshop(s) Undergraduate Student Colloquium, University of California, Santa Cruz	Oct, Apr 2022
	Some Invariants of Abelian Varieties over Finite Fields Graduate Student Colloquium, University of California, Santa Cruz	Oct 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
External Talks	What is a scheme?* What is a seminar?	Oct 2021
*КЕМОТЕ	A Non-Archimedean Volume of Hilbert Scheme of Points The Mathematics Society Seminar, Shiv Nadar University	Aug 2019

PROGRAMMES, WORKSHOPS &	Joint Mathematics Boston, USA	Jan 2023 Jun – Jul 2022					
CONFERENCES (selected)	Rethinking Numbe Ekedahl-Oort Strata fo						
*Кемоте	Automorphic Forms University of Arizon	Mar 2022					
	PCMI Graduate Su Number Theory Info Motivic Homotopy IAS/PCMI, Park Cit	Jul 2021					
	Rethinking Numbe Invariants of p-torsion	Jul 2021					
	Sparsity of Algebras MSRI, Berkeley, Cal	Jun 2021					
	Connecticut Summ University of Conne	Jun 2020					
TEACHING	'EACHING UNIVERSITY OF CALIFORNIA, SANTA CRUZ						
*Кемоте	Instructor of Record	MATH 11B – Calculus with Applications MATH 100 – Introduction to Proof and Problem Solving MATH 103A – Complex Analysis MATH 110 – Introduction to Number Theory MATH 110 – Introduction to Number Theory MATH 105A – Real Analysis MATH 3 – Precalculus	Summer 2022* Summer 2022* Spring 2022 Fall 2021 Summer 2021* Fall 2020* Summer 2020*				
	Teaching Assistant	MATH 19A – Calculus for Sci., Eng., and Math.  MATH 11A – Calculus with Applications  MATH 111T – Algebra (Fellowship under SEMILLA Teach)  MATH 100 – Introduction to Proof and Problem Solving (Fellowship under SEMILLA Teach)  MATH 3 – Precalculus  MATH 181 – History of Mathematics  MATH 3 – Precalculus	Fall 2022 Winter 2022 Spring 2021* Winter 2021* Spring 2020* Winter 2020 Fall 2019				
	SHIV NADAR UNIVERSITY						
	Teaching Assistant	MAT260 – Linear Algebra	Fall 2015				
	Tutor, LASC	MAT260 – Linear Algebra MAT284 – Probability and Statistics MAT101 – Calculus I LASC = Learning & Academic Support Centre	Spring 2015 Spring 2015 Fall 2014				
SERVICE &	University of California, Santa Cruz						
ORGANISING	<b>Head TA</b> , for mento <i>Head TA Team</i> , Math	ership and support ematics Department	Jul 2022 – present				

Directed Reading Program  Organiser, co-organising with David Rubinstein, Nathan Marianovsky	Aug 2021 – present
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 David Rubinstein, Jennifer Guerrero, 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	
• Stacks	Fall 2022
<ul> <li>Étale Cohomology co-organised with Shane Kennerly, Malachi Alexander</li> </ul>	Fall 2021
<ul> <li>Étale Homological Algebra co-organised with Vaibhav Sutrave, Malachi Alexander</li> </ul>	Spring 2021
A Course in Arithmetic by JP.Serre	Winter, Summer 2020
Mathematics Department DEI Committee Graduate Student Member	Oct 2020 – Jun 2022
• Mentor, Brooke Zhang	
COMBINATORIAL DESIGN THEORY	Fall 2022
<ul> <li>Mentor (with David Rubinstein), Kenneth Gee</li> <li>THE (CURRY-HOWARD-)LAMBEK CORRESPONDENCE</li> </ul>	Summer – Fall 2022
<ul> <li>Mentor, Miles Mitchell</li> <li>AFFINE ALGEBRAIC GROUPS AND HOPF ALGEBRAS</li> </ul>	Spring 2022
<ul> <li>Mentor, Morea Lee</li> <li>GALOIS THEORY OVER Q</li> </ul>	Winter 2022
<ul> <li>Mentor, Yijia Sun</li> <li>Linear Error Correction Codes</li> </ul>	Fall 2021
<ul> <li>Mentor, Anna Yoon</li> <li>ELLIPTIC CURVE CRYPTOGRAPHY</li> </ul>	Winter 2020
<b>Panelist, The Roles and Contributions of TAs</b> Graduate Preparation Program	Aug 2022, 2021
Twoples	
<ul> <li>Mentor, Lillian Frey (Binghamton University)</li> <li>INTRODUCTION TO CODING THEORY: LINEAR CODES</li> </ul>	Sep – Dec 2022
<ul> <li>Mentor, Lalit Mohan Sharma (University of Delhi)</li> <li>NUMBER THEORY OF NUMBER FIELDS: CLASS GROUPS</li> <li>INTRODUCTION TO ALGEBRAIC GEOMETRY: VARIETIES</li> </ul>	Jan – Apr 2022 Aug – Dec 2022
<ul> <li>Mentor, Bowen Li (Carleton College)</li> <li>JOURNEY THROUGH CATEGORY THEORY</li> </ul>	Jan – Apr 2022

OUTREACH

Panelist, Graduate	Student Pers	pectives: A	Year in Review
--------------------	--------------	-------------	----------------

Lunch in the Time of COVID May 2021

PEDAGOGICAL
& Professional
DEVELOPMENT

## UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Graduate Student Researcher, Redesigning Calculus in the Life Sciences

Mathematics Department

Summer 2021

& Center for Innovations in Teaching and Learning (CITL)

Fellowship under the GANAS-Career Pathways grant

Summer GSI (Graduate Student Instructor) Peer Support Team

Center for Innovations in Teaching and Learning (CITL)

Spring – Summer 2021

**Preparing for Inclusive Teaching** 

Center for Innovations in Teaching and Learning (CITL)

& Hispanic Serving Institution (HSI) Initiatives Sep 2020, 2019

**Integrated Course Design for Remote Instruction** 

Online Education (OE) Spring 2020

**Graduate Certificate in Course Design & Delivery** 

Center for Innovations in Teaching and Learning (CITL)

Spring 2020

**Graduate Certificate in Teaching for Equity** 

Center for Innovations in Teaching and Learning (CITL)

Spring 2020

AWARDS, GRANTS & SCHOLARSHIPS State Funded Scholarship, Higher School of Economics

Full Merit Scholarship, Shiv Nadar University 2012 – 2016

MEMBERSHIPS As

**Association for Women in Mathematics** 

Feb 2021 – present

2017 - 2019

**American Mathematical Society** 

Oct 2019 – present

**LANGUAGES** 

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