

CONTACT INFORMATION	Mathematics Department University of California, Santa Cruz	Email: bdeewang@ucsc.edu Website: bdeewang.com
EDUCATION	University of California, Santa Cruz PH.D. IN MATHEMATICS Advisor: <i>Martin Weissman</i> M.A. IN MATHEMATICS Higher School of Economics M.SC. IN MATHEMATICS Advisor: <i>Vadim Vologodsky</i> Shiv Nadar University 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
INVITED TALKS	Frobenius Trace Distributions informed by Angle Rank <i>Joint Mathematics Meetings, Boston, MA</i>	Jan 2023
INTERNAL TALKS	A Point is Worth a Shape: Introducing Moduli Spaces <i>Undergraduate Student Colloquium, University of California, Santa Cruz</i>	Feb 2023
REMOTE	Angle Ranks and Frobenius Distributions <i>Graduate Student Colloquium, University of California, Santa Cruz</i>	Nov 2022
	L^AT_EX Workshop (with Jennifer Guerrero) <i>Undergraduate Student Colloquium, University of California, Santa Cruz</i>	Oct 2022
	Some Invariants of Abelian Varieties over Finite Fields <i>Graduate Student Colloquium, University of California, Santa Cruz</i>	Oct 2022
	L^AT_EX Workshop, Parts II: Trying tikz, tikz-cd and beamer <i>Undergraduate Student Colloquium, University of California, Santa Cruz</i>	Apr 2022
	L^AT_EX Workshop Parts I: An Introduction <i>Undergraduate Student Colloquium, University of California, Santa Cruz</i>	Apr 2022
	Cohomology on Sites* <i>Graduate Student Colloquium, University of California, Santa Cruz</i>	Jan 2022
	Fundamental Groups: Topological, Étale, Tannakian* <i>Graduate Student Colloquium, University of California, Santa Cruz</i>	Oct 2021
	Demystifying the p-adics* <i>Graduate Student Colloquium, University of California, Santa Cruz</i>	Nov 2020
	A First Introduction to Motivic Integration <i>Geometric Structures on Manifolds Seminar, Higher School of Economics</i>	Jun 2019
	p-adic Integration and Betti Numbers of Calabi-Yau Varieties <i>Geometric Structures on Manifolds Seminar, Higher School of Economics</i>	Dec 2018
	Mordell's Theorem <i>Graduate Student Seminar, Higher School of Economics</i>	May 2018

EXTERNAL TALKS	What is... a scheme?*	Oct 2021
	What is... a seminar?	
*REMOTE	A Non-Archimedean Volume of Hilbert Scheme of Points <i>The Mathematics Society Seminar, Shiv Nadar University</i>	Aug 2019
PROGRAMMES, WORKSHOPS & CONFERENCES (selected)	Critical Issues in Mathematics Education: <i>Mentoring for Equity</i> <i>MSRI/SLMath, Berkeley, USA</i>	Mar 2023
	Unlikely Intersections, Arizona Winter School <i>University of Arizona, Tuscon, USA</i>	Mar 2023
	Introductory Workshop: Diophantine Geometry <i>MSRI/SLMath, Berkeley, USA</i>	Feb 2023
	Joint Mathematics Meetings <i>Boston, USA</i>	Jan 2023
	Rethinking Number Theory* Project Leader: <i>Maria Fox</i>	Jun – Jul 2022
	Automorphic Forms Beyond GL_2 , Arizona Winter School <i>University of Arizona, Tuscon, USA</i>	Mar 2022
	PCMI Graduate Summer School* <i>Number Theory Informed by Computation</i> (Week 3) <i>Motivic Homotopy Theory</i> (Week 1) <i>IAS/PCMI, Park City, Utah, USA</i>	Jul 2021
	Rethinking Number Theory* Project Leader: <i>Soumya Sankar</i>	Jul 2021
	Sparsity of Algebraic Points, MSRI Summer Graduate School* <i>MSRI, Berkeley, USA</i>	Jun 2021
	Rational Points and Galois Representations* <i>University of Pittsburgh, USA</i>	May 2021
	Unlikely intersections, Diophantine geometry, and related fields* <i>University of Reading, UK</i>	Apr 2021
	Connecticut Summer School in Number Theory (CTNT)* <i>University of Connecticut, Connecticut, USA</i>	Jun 2020
TEACHING	UNIVERSITY OF CALIFORNIA, SANTA CRUZ	
*REMOTE	Instructor of Record	
	MATH 105A – Real Analysis	Summer 2023*
	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	
	TBD	Spring 2023
	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 (Fellowship under SEMILLA Teach)	Spring 2021*
MATH 100 – Introduction to Proof and Problem Solving (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

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

SERVICE & ORGANISING

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Head TA , for mentorship and support <i>Head TA Team</i> , Mathematics Department	Jul 2022 – <i>present</i>
Directed Reading Program <i>Organiser</i> , co-organising with David Rubinstein	Aug 2021 – Jun 2024
Association for Women in Mathematics Chapter <i>President</i> <i>General Secretary</i>	Sep 2022 – Aug 2023 Nov 2020 – Aug 2022
Mathematics Department Peer Support Program <i>Organiser</i> , co-organising with Jennifer Guerrero, David Rubinstein, Ryan Pugh	Aug 2021 – Jun 2023
Graduate Student Colloquium, Mathematics Department <i>Organiser</i> , co-organised with David Rubinstein	Dec 2020 – Jun 2022
Category Theory Learning Seminar <i>Organiser</i> , co-organised with Vaibhav Sutrave, David Rubinstein	Winter – Spring 2022
Reading Groups , <i>Organiser</i>	
• Topological Data Analysis co-organised with David Rubinstein	Winter 2023
• Stacks	Fall 2022
• Étale Cohomology co-organised with Shane Kennerly, Malachi Alexander	Fall 2021
• 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 <i>Graduate Student Representative</i>	Oct 2020 – Jun 2022

OUTREACH

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Directed Reading Program

• <i>Mentor</i> , Brooke Zhang COMBINATORIAL DESIGNS	Fall 2022
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• <i>Mentor</i> (with David Rubinstein), Kenneth Gee THE (CURRY–HOWARD–) LAMBEK 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 \mathbb{Q}	Winter 2022
• <i>Mentor</i> , Yijia Sun LINEAR ERROR CORRECTION CODES	Fall 2021
• <i>Mentor</i> , Anna Yoon ELLIPTIC CURVE CRYPTOGRAPHY	Winter 2020
Panelist, <i>The Roles and Contributions of TAs</i> <i>Graduate Preparation Program</i>	Aug 2022, 2021

Twoples

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

PEDAGOGICAL & PROFESSIONAL DEVELOPMENT

UNIVERSITY OF CALIFORNIA, SANTA CRUZ	
Equity-Minded Mentoring for Graduate Students Certificate Program <i>Center for Innovations in Teaching and Learning</i>	Winter 2023
Graduate Student Researcher, <i>Redesigning Calculus in the Life Sciences</i> <i>Mathematics Department & Center for Innovations in Teaching and Learning</i> Fellowship under the GANAS-Career Pathways grant	Summer 2021
Summer Graduate Student Instructor Peer Support Team <i>Center for Innovations in Teaching and Learning</i>	Spring – Summer 2021
Preparing for Inclusive Teaching <i>Center for Innovations in Teaching and Learning</i>	Sep 2020, 2019
Integrated Course Design for Remote Instruction <i>Online Education (OE)</i>	Spring 2020
Course Design & Delivery Certificate Program <i>Center for Innovations in Teaching and Learning</i>	Spring 2020
Teaching for Equity Certificate Program <i>Center for Innovations in Teaching and Learning</i>	Spring 2020

AWARDS, GRANTS & SCHOLARSHIPS

State Funded Scholarship, Higher School of Economics	2017 – 2019
Full Merit Scholarship, Shiv Nadar University	2012 – 2016

MEMBERSHIPS	Association for Women in Mathematics	Feb 2021 – <i>present</i>
	American Mathematical Society	Oct 2019 – <i>present</i>
