

David Rubinstein, PhD (he/him/his)

Website: drubinstein.com | Email: drubinstein@sdccd.edu

EMPLOYMENT

San Diego Mesa College

ASSISTANT PROFESSOR OF MATHEMATICS

California, USA

Jan 2025 – Present

EDUCATION

University of California, Santa Cruz (UCSC)

PH.D. IN MATHEMATICS (Advisor: [Beren Sanders](#))

M.A. IN MATHEMATICS

California, USA

Sep 2018 – Jun 2024

Dec 2019

University of California, Santa Barbara (UCSB)

B.S IN MATHEMATICS (HIGH HONORS). Minor in Physics

California, USA

Jun 2018

TEACHING

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Instructor of Record

MATH 100 – Introduction to Proof and Problem Solving

Summer 2023

MATH 117 – Advanced Linear Algebra

Summer 2022

MATH 21 – Linear Algebra

Summer 2021, Summer 2020

Teaching Assistant

Math 111T – Abstract Algebra for K-12 Teachers

Spring 2024

MATH 100 – Introduction to Proof and Problem Solving

Winter 2024, Spring 2023, Fall 2019

MATH 11A – Calculus with Applications

Fall 2023, Spring 2021, Winter 2021

MATH 19B – Calculus for Science, Engineering, and Mathematics

Winter 2023, Spring 2019

MATH 3 – Precalculus

Fall 2022

MATH 117 – Advanced Linear Algebra

Spring 2022, Fall 2021

MATH 288B – Pedagogy of Mathematics (for GSIs)

Winter 2022

MATH 111A – Abstract Algebra (Fellowship under [SEMILLA Teach](#))

Fall 2020

MATH 21 – Linear Algebra

Spring 2020, Summer 2019, Winter 2019

MATH 23A – Vector Calculus

Winter 2020

MATH 19A – Calculus for Science, Engineering, and Mathematics

Fall 2018

SERVICE & ORGANIZING

UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Co-Director, Project for Inmate Education (PIE), with Deewang Bhamidipati, Mikayla Wilson & Andy Skemer

Jul 2023 – present

Co-organizer, What are you reading? an informal seminar, with Sophie A., Deewang B., Jennifer G.

Spring 2024, Spring 2023

Co-organizer, Math Dept. Peer Support Program.

Aug 2021 – present

with Sophie A., Malachi A., Deewang B., Jennifer G.

Co-organizer, Directed Reading Program, with Deewang B.

Aug 2022 – Jun 2024

Association for Women in Mathematics (AWM) Chapter

Treasurer & Outreach Chair, AWM Executive Committee

Sep 2021 – Sep 2023

Co-organizer, Prelim Study Groups (an AWM Initiative), with Deewang B.

Jan 2022 – Sep 2023

Co-organizer, EmpowHER Hour (an AWM Initiative), organized by Sophie A., Jennifer G.

Spring 2022 – Spring 2023

Co-organizer, Category Theory Learning Seminar, with Deewang B., Vaibhav S.

Spring 2022, Spring 2024

<i>Co-organizer, Graduate Colloquium, Mathematics Department</i> , with Deewang B.	Dec 2020 – Jun 2022
<i>Graduate Student Representative, Mathematics Department DEI Committee</i>	Oct 2020 – Jun 2022
Reading Groups	
• Derived Category of p-Permutation Modules	Spring 2023
• Metrics on Triangulated Categories	Winter 2023
• Topological Data Analysis , co-organized with Deewang B.	Winter 2023
• Pointless Topology and Triangulated Categories	Fall 2022
• Stacks	Fall 2022
• Auslander-Reiten Triangles	Winter – Spring 2020

OUTREACH

<i>Session Leader, Math Teachers' Circle, Santa Cruz</i>	Jan 2024
UNIVERSITY OF CALIFORNIA, SANTA CRUZ	
Directed Reading Program	
• <i>Mentor</i> , Shannon Findley. Tangent Space of Manifold	Spring 2024
• <i>Mentor</i> , Natalie Marks. Homotopical Categories	Spring 2024
• <i>Mentor</i> (with Deewang B.), Yahya Bashandy. Derived Functors & Kan Extensions	Winter 2024
• <i>Mentor</i> (with Deewang B.), Yahya Bashandy. Group Cohomology & Hilbert's Theorem 90	Fall 2023
• <i>Mentor</i> (with Deewang B.), Kenneth Gee. The Lambek Correspondence	Summer – Fall 2022
• <i>Mentor</i> , Cassidy Tao. Functor of Points	Fall 2021
• <i>Mentor</i> , Eric Huang. Intro. to Homological Algebra	Winter 2020
Study Leader , Prelim Study Groups by AWM	
<i>Study Leader for Algebra</i>	Spring 2022, Winter 2022
Peer Mentor , Math Dept. Peer Support Program	Fall 2021 - <i>present</i>

PEDAGOGICAL & PROFESSIONAL DEVELOPMENT

Data Science Boot Camp , Erdős Institute	Spring 2024
Final Project: D&D Combat Length Predictions. Top 5 Project.	
Faculty Diversity Internship Program , West Valley-Mission Community College District	Winter – Spring 2023
UNIVERSITY OF CALIFORNIA, SANTA CRUZ	
Foundations Scholar , The Educational Group for Enrichment in Data Science (edge-DS)	2023 – 24 AY
Equity-Minded Mentoring Certificate Program, Teaching & Learning Center (then CITL)	Winter 2023
Graduate Student Researcher, Redesigning Calculus in the Life Sciences	Summer 2022, 2021
Mathematics Department, Teaching & Learning Center (Fellowship under <i>GANAS-Career Pathways</i>)	
Inclusive Teaching Practices using 21st Century Pedagogy , Teaching & Learning Center (then CITL)	Sep 2018, 2020, 2022
Course Design & Delivery Certificate Program, Teaching & Learning Center (then CITL)	Spring 2021
Teaching for Equity Certificate Program, Teaching & Learning Center (then CITL)	Spring 2020

INVITED TALKS

Stratification for Tensor-Triangulated Categories, with Applications to Motives	May 2023
<i>Special Session on Research in Mathematics by Early Career Graduate Students</i> , AMS Spring Western Sectional	

INTERNAL & OTHER EXPOSITORY TALKS

Stratification of Derived Categories of Tate Motives , Algebra and Number Theory Seminar, UCSC	Jun 2024
Tensor-Triangulated Categories: The Guide for the Perplexed , Graduate Student Colloquium, UCSC	May 2024
Mackey Functors , Reading Seminar on Derived Categories of Perm. Modules, UCSC	Jun 2023
A workshop on beamer , Directed Reading Program, UCSC	May 2023
Morita Theory for Stable Derivators , Graduate Student Colloquium, UCSC	Jan 2023
Classification Problems in Mathematics: Stratification and Motives , Graduate Student Colloquium, UCSC	Mar 2022
Algebras in Tensor Triangulated Categories , Graduate Student Colloquium, UCSC	Oct 2021
An Introduction to (Tensor) Triangulated Categories 2 , Graduate Student Colloquium, UCSC	Dec 2020
An Introduction to (Tensor) Triangulated Categories 1 , Graduate Student Colloquium, UCSC	Nov 2020

MEMBERSHIPS

Association for Women in Mathematics,
American Mathematical Society

LANGUAGES

English (fluent), Yiddish (fluent), Spanish (intermediate)