Richard Wong

ASSISTANT ADJUNCT PROFESSOR (HE/HIM/HIS)

Department of Mathematics, UCLA, Los Angeles, CA 90095

MS 6304

Employment

Assistant Adjunct Professor in Mathematics, Step II

University of California, Los Angeles

July 2021 - Present

- CEILS 2022 Scientific Teaching Fellow
- 2023 Liggett Instructor Award
- 2023 Project NExT Fellow

Education

Ph.D. in Mathematics University of Texas at Austin

ADVISED BY ANDREW J. BLUMBERG

- Thesis: Endotrivial modules for cyclic p-groups and generalized quaternion groups via Galois descent
- · Concentration in Teaching and Mentoring
- Concentration in Communicating Science

B.S. Summa Cum Laude in Mathematics, highest honors

Rutgers University

May 2015

May 2021

- MATHEMATICS HONORS TRACK · SAS Honors Program
- Matthew Leydt Society, Class of 2015

Publications

Endotrivial modules for cyclic p-groups and generalized quaternion groups via Galois descent Jeroen Meer, Richard Wong

Submitted, arxiv: 2107.06308 (2021)

Selected Teaching Experience

Math 32AH/BH: Calculus of Several Variables (Honors)

UCLA, Fall 2021-Present

- · Proof-based treatment of the topics of differential (32AH) and integral (32BH) multivariable calculus, spanning material in linear algebra, real analysis, and differential geometry.
- Developed collaborative, inquiry-based assignments that emphasize mathematical exposition.
- 32AH (Fall 2021, Fall 2022), 32BH (Winter 2022, Winter 2023)

Math 32A/B: Calculus of Several Variables

UCLA, Fall 2021-Present

- Topics in differential (32A) and integral (32B) multivariable calculus.
- Developed collaborative, inquiry-based assignments that emphasize mathematical exposition.
- 32A (Fall 2021, Spring 2022, Fall 2022, Winter 2022), 32B (Winter 2022, Spring 2023)

M 371E: Learning Assistant Experience in Mathematics

UT Austin

INSTRUCTOR OF RECORD AND CALCLAB COORDINATOR

· Taught undergraduates how to effectively teach and support students in the learning of mathematics.

- Ran CalcLab, a program where students enrolled in calculus courses can receive help and work with classmates.
- Transitioned CalcLab to an online calculus resource through Zoom.

UCLA Summer Bridge Program

UCLA, Summer 2023

Spring 2020 - Spring 2021

- · This program is designed for incoming first year students from low-income and URM backgrounds that intend to major in the Physical Sciences.
- · Created an inquiry-based survey course to demonstrate how scientists utilize mathematics and calculus.

Other Teaching Experience

- Bootcamp Summer Program for incoming math graduate students.
- Math 115A, Linear Algebra.
- · Minicourse Leader, University of Texas at Austin Summer Mincourses.

UCLA, Summer 2023

UCLA, Spring 2023

UT Austin, Summers 2017-2020

Teaching Assistant Experience

- · UGS 303: From Numbers to Chaos.
- Supplemental Instruction Leader for M 408K: Differential calculus.
- M 408M: Multivariable calculus.
- Young Scholars Program in Discrete Mathematics.

UT Austin, Fall 2018 UT Austin, Spring 2018 UT Austin, Fall 2017 Rutaers University, Summer 2013

Outreach and Mentoring

Founding Co-Organizer

UT Austin

Summer 2020 - Summer 2021

MATHEMATICIANS OF COLOR ALLIANCE AT TEXAS (MOCAT)

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- Created a community of undergraduate and graduate students of color to recruit, retain, support, and empower underrepresented groups in mathematics.
- Planned expository talks, held social events, and mentored undergraduate students.
- Organized Existence and Uniqueness, a departmental book club on Living Proof.
- Tensor SUMMA 2021 Grant Recipient.
- Presented at the 2021 Mathfest MAA Outreach Poster Session

Founder and Organizer

UT Austin

SUMMER MINI-COURSES 2017-2020

Summers 2017-2021

- Organized a series of week-long graduate student-run minicourses on various tools and research topics.
- Gave lectures on homological algebra, spectral sequences and equivariant stable homotopy theory.
- Transitioned the Minicourses to an online format, serving over 400 participants from around the world.

Directed Reading Program Mentor

UT Austin, Fall 2016 - Fall 2020

• Mentored 9 undergraduate student projects in various subjects in algebra and topology.

Invited Speaker

• Undergraduate Math Council: Speaker Series UCLA, Fall 2022 • Graduates Achieving Inclusion Now (GAIN) Virtual, Fall 2021 · Honors Linear Algebra Guest speaker Rice University, Fall 2020 • SMMG: "Number Games" UT Austin, Spring 2020 • Math Club: "Invertible Objects: An Elementary Introduction to Picard Groups". UT Austin, Spring 2020 • Math Club: REU / Summer Opportunities Panelist UT Austin, Spring 2018 • SMMG: "Surfaces, Space, and Hyperspace: An exploration of 2, 3, and higher dimensions". UT Austin, Spring 2018 • Math Club: "An Overview of Algebraic Topology" UT Austin, Spring 2017

Service

Fall 2022 - present

Teaching Committee

DEPARTMENTAL SERVICE

UCLA

• Monitored departmental teaching policy and its effectiveness in undergraduate education.

• Evaluated nominations for departmental teaching awards.

Course Development Committee

UCLA

DEPARTMENTAL SERVICE

Fall 2021 - Spring 2022

• This committee is charged with developing and updating course syllabi, designing new courses in the curriculum, and maintaining and updating course web-pages.

Co-Organizer UT Austin

UT Austin Learning Seminars

Spring 2017, Fall 2018

- Quantum Topology and Categorification Seminar, on TQFT and the Jones Polynomial
- Homotopy Theory Learning Seminar, on families in the stable homotopy groups of spheres.

Scholarships, Honors & Awards

UIUC

Virtual

Northwestern

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2023	Project NExT (New Experiences in Teaching) Fellow	MAA
2023	Liggett Instructor Award	UCLA
2022	CEILS 2022 Scientific Teaching Fellow	UCLA
2020	SSD Appreciation Award ("Clock Award")	UT Austin
2020	FIC Graduate Student Teaching Award	UT Austin
2018	Teaching Preparation Certificate	UT Austin
2017	Inclusive Classrooms Leadership Certificate	UT Austin
2015-2020	Provost's Graduate Excellence Fellowship	UT Austin
2015	Wolfson Annual Award for Academic Excellence in Mathematics	Rutgers University
2014, 2015	Weill Scholarship in Mathematics	Rutgers University
2014	REU Participant	IU-Bloomington
2014	John Bogart Prize	Rutgers University
2013	Alan Marc Schreiber Memorial Scholarship	Rutgers University
	Invited Confe	erence Talks
Oct. 2022	2022 AMS Fall Western Sectional Meeting	Univeristy of Utah
	Workshop on Homotopy Theory and Group Theory, IRP Higher Homotopical Structures	CRM Barcelona
	Graduate Student Topology & Geometry Conference	Indiana University
-	eCHT Equivariant Algebra Reading Seminar	Virtual
	eCHT Kervaire Invariant One Reading Seminar	Virtual
	electronic Algebraic Topology Employment Network	Virtual
	eCHT Kan Seminar	Virtual
Jul. 2019	Young Topologist's Meeting 2019	EPFL
	Graduate Student Topology & Geometry Conference	UIUC
	Invited Se	minar Talks
Apr. 2023	University of Oregon Topology Seminar	University of Oregon
-	University of Louisiana at Lafayette Algebra Seminar	UL Lafayette
	Rose-Hulman Institute of Technology Seminar	Rose-Hulman
-	Seminario Virtual de Topología Algebraica	CIMAT Merida
	The Ohio State University Student Homotopy Theory Seminar	OSU
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Oct. 2020 University of Illinois, Urbana-Champaign Topology Seminar

Jul. 2020 GROOT Summer Seminar

Oct. 2020 University of Chicago-Northwestern University Joint Topology Seminar