Richard Wong

ASSISTANT ADJUNCT PROFESSOR (HE/HIM/HIS)

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MS 6324

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Employment

Assistant Adjunct Professor in Mathematics, Step II

University of California, Los Angeles July 2021 - Present

Education

Ph.D. in Mathematics

University of Texas at Austin

ADVISED BY ANDREW J. BLUMBERG

May 2021

- $\bullet \ \ \text{Thesis: } \textit{Endotrivial modules for cyclic } \textit{p-groups and generalized quaternion groups via Galois descent}$
- · Concentration in Teaching and Mentoring
- Concentration in Communicating Science

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

Rutgers University

MATHEMATICS HONORS TRACK

· SAS Honors Program

• Matthew Leydt Society, Class of 2015

May 2015

Publications

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

Submitted, arxiv: 2107.06308 (2021)

Teaching Experience

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

UCLA, Fall 2021-Winter 2022

- · 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), 32BH (Winter 2022)

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), 32B (Winter 2022)

M 371E: Learning Assistant Experience in Mathematics

UT Austin

INSTRUCTOR OF RECORD AND **CALCLAB COORDINATOR**

Spring 2020 - Spring 2021

- 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.

University of Texas at Austin Summer Mincourses

UT Austin

MINICOURSE LEADER

Summers 2017-2020

- Minicourse Leader for Intro to Spectral Sequences; Equivariant Stable Homotopy Theory; and Homological Algebra.
- Gave lectures introducing graduate-level mathematics to graduate students and advanced undergraduate students.
- Created problem sets to accompany the lectures, and ran collaborative problem sessions.

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

Rutgers University, Summer 2013

Outreach and Mentoring

Founding Co-Organizer UT Austin

MATHEMATICIANS OF COLOR ALLIANCE AT TEXAS (MOCAT)

- Summer 2020 Summer 2021
- 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

Directed Reading Program Mentor

UT Austin, Fall 2016 - Fall 2020

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

Speaker Virtual

GRADUATES ACHIEVING INCLUSION NOW (GAIN)

Fall 2021

- · Discussed issues of discrimination and systemic inequity, as well as action items to improve graduate student experiences.
- Spoke on the topic of allyship and mentorship

Speaker UT Austin

SATURDAY MORNING MATH GROUP

Spring 2018, Spring 2020

Spring 2017, Spring 2020

- SMMG is an outreach program aimed at junior high and high school students, their parents, and their teachers.
- Gave an inquiry-based talk titled: "Surfaces, Space, and Hyperspace: An exploration of 2, 3, and higher dimensions".
- · Gave an inquiry-based talk titled: "Number Games"

Speaker UT Austin

UT Austin Math Club

- Gave an introductory talk titled "An Overview of Algebraic Topology".
- Participated in a panel advertising summer opportunities in mathematics.
- Gave an introductory talk titled "Invertible Objects: An Elementary Introduction to Picard Groups".

Service

Teaching Committee UCLA

DEPARTMENTAL SERVICE

Fall 2022 - present

• This committee monitors departmental teaching policy and its effectiveness in undergraduate education. It also evaluates nominations for departmental teaching awards.

Course Development Committee

UCLA

DEPARTMENTAL SERVICE

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.

Founding 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 Minicourse to an online format, serving over 400 participants from around the world.

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

CEILS 2022 Scientific Teaching Fellow	UCLA	
SSD Appreciation Award ("Clock Award")	UT Austin	
FIC Graduate Student Teaching Award	UT Austin	
Teaching Preparation Certificate	UT Austin	
Inclusive Classrooms Leadership Certificate	UT Austin	
Provost's Graduate Excellence Fellowship	UT Austin	
Wolfson Annual Award for Academic Excellence in Mathematics	Rutgers University	
Weill Scholarship in Mathematics	Rutgers University	
REU Participant	IU-Bloomington	
John Bogart Prize	Rutgers University	
Alan Marc Schreiber Memorial Scholarship	Rutgers University	
Invited Conference Talks		
AMS Fall Western Sectional Meeting	University 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	
	SSD Appreciation Award ("Clock Award") FIC Graduate Student Teaching Award Teaching Preparation Certificate Inclusive Classrooms Leadership Certificate Provost's Graduate Excellence Fellowship Wolfson Annual Award for Academic Excellence in Mathematics Weill Scholarship in Mathematics REU Participant John Bogart Prize Alan Marc Schreiber Memorial Scholarship Invited Confere AMS Fall Western Sectional Meeting Workshop on Homotopy Theory and Group Theory, IRP Higher Homotopical Structures Graduate Student Topology & Geometry Conference	

Nov. 2020 eCHT Kervaire Invariant One Reading Seminar

Sep. 2019 eCHT Kan Seminar

Jul. 2019 Young Topologist's Meeting 2019

Oct. 2020 electronic Algebraic Topology Employment Network

Mar. 2019 Graduate Student Topology & Geometry Conference

____ Invited Seminar Talks

Virtual

Virtual

Virtual

EPFL UIUC

UL Lafayette	University of Louisiana at Lafayette Algebra Seminar	Oct. 2021
Rose-Hulman	Rose-Hulman Institute of Technology Seminar	May 2021
CIMAT Merida	Seminario Virtual de Topología Algebraica	Mar. 2021
OSU	The Ohio State University Student Homotopy Theory Seminar	Oct. 2020
UIUC	University of Illinois, Urbana-Champaign Topology Seminar	Oct. 2020
Northwestern	University of Chicago-Northwestern University Joint Topology Seminar	Oct. 2020
Virtual	GROOT Summer Seminar	Jul. 2020