

Jonathan Alcaraz

EDUCATION

University of California, Riverside

PhD in Mathematics — ENROLLED

MS in Mathematics — DECEMBER 2018

BS in Mathematics — JUNE 2016

TEACHING EXPERIENCE

Instructor for Calculus for Life Sciences I

University of California, Riverside

FALL 2020

In charge of preparing and presenting lectures, hosting office hours, writing quizzes and exams, delegating and collaborating with teaching assistants, and organizing a one quarter course. Due to campus closures, this course was completely virtual.

Instructor for College Math for the Sciences II

University of California, Riverside

SPRING 2020

In charge of preparing and presenting lectures, hosting office hours, writing quizzes and exams, delegating and collaborating with teaching assistants, and organizing a one quarter course. Due to campus closures, this course was completely virtual.

Teaching Assistant

University of California, Riverside

2016-PRESENT

In charge of leading discussion, grading quizzes, hosting office hours, and utilizing active learning techniques. A full list of courses I have taught and links to teaching evaluations available on my website.

AMP Instructor

University of California, Riverside

SUMMER 2019

The Advanced Mathematics Program (AMP) at UCR is a Summer Program for undergraduate students transitioning from lower-division to upper-division coursework. The program particularly targets under-represented students. Instructors are responsible for organizing a two week course in Group Theory.

Instructor for College Math for the Sciences II

University of California, Riverside

SUMMER 2018

In charge of preparing and presenting lectures, hosting office hours, writing quizzes and exams, delegating and collaborating with a teaching assistant, and organizing a 7-week course.

CONTACT

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🌐 math.jonathanalcaraz.com

ON-GOING PROJECTS

PMA Chapter Founder

2020-PRESENT

Developing a student chapter of the Pacific Math Alliance at UCR to reach and serve undergraduate students and further the mission of the PMA to help underserved students to pursue advanced study or a career in the mathematical sciences.

AMS Chapter Vice President

2019-PRESENT

Acting Vice President of the UCR Graduate Student Chapter of the American Mathematics Society. The primary duty of this position is co-organizing the UCR Math Graduate Student Seminar.

Grad Recruitment Ambassador

2019-PRESENT

Volunteer position helping the UCR Math department with recruitment of new graduate students. Duties include attending local and national recruitment events and assisting department administration with organizing events.

SKILLS

🔧 Proficiency with \LaTeX

🌐 Proficiency with Google products

🐧 Experience with Linux systems

🎨 Graphic design experience

LANGUAGES

🇺🇸 English

🇪🇸 Spanish (Conversational)

CONFERENCES & WORKSHOPS

2020

Joint Math Meeting

Colorado Convention Center—JAN

2019

Field of Dreams Conference

Washington University in St. Louis—NOVEMBER

AMS Fall Western Sectional

University of California, Riverside—NOVEMBER

Cascade Topology Seminar

University of Manitoba—SEPTEMBER

MSRI Summer School: Geometric Group Theory

Casa Matemática Oaxaca—JULY

LG&TBQ

University of Michigan—JUNE

Graduate Student Conference in Algebra, Geometry, and Topology

Temple University—JUNE

MathConnections

University of California, Riverside—MAY

Redbud Topology Conference

Oklahoma University—APRIL

Graduate School on the Geometry of Teichmüller spaces

Simons Center for Geometry and Physics—APRIL

2018

MathConnections

University of California, Riverside—MAY

Joint Mathematics Meeting

San Diego Convention Center—JANUARY

2017

AMS Fall Western Sectional

University of California, Riverside—NOVEMBER

MathConnections

University of California, Riverside—MAY

MAA SoCal-Nev Section Meeting

California State University, Northridge—APRIL

SERVICE & PROJECTS

Topology Qualifying Exam Prep

SUMMER 2019

Running a seminar to help junior graduate students in preparation for the topology qualifying exam.

Microtutorial in Mathematics

2017-2019

Writing and acting in videos working out application problems in calculus, particularly in the life sciences and business calculus.

Undergraduate Research Mentor

SPRING 2019

A 10-week program helping undergraduate students learn about advanced topics in maps and understand open problems in the field.

MathConnections Co-organizer

2019

Organizing a graduate student conference at UCR in an effort bring together the math community in Southern California.

Undergraduate Research

SPRING 2016

A 10-week research project exploring results in number theory regarding perfect numbers and related topics.

Undergraduate Research

SPRING 2015

A 10-week research project exploring methods for rating and ranking for applications in sports and online content curation.