

**Russell, Ryan**

[rcrusel@gmail.com](mailto:rcrusel@gmail.com) | (562)-706-2094

## Education

**Masters of Science in Pure Mathematics** - *California State University, Long Beach* May 2020  
**Bachelor's of Science in Mathematics** - *University of California, Los Angeles* January 2019  
**Associate's in Mathematics, Associate's in Physics** - *Orange Coast College, Costa Mesa* June 2016

## Teaching Experience

**Level 4 Tutor Expert** - *Student Success Center at Coastline College* Spring 2019 - Spring 2020

- Compiled reference materials for all tutors on teaching Calculus proofs
- Explained complex processes and concepts for all collegiate Mathematics courses
- Tailored materials and approaches to students' background, needs, and expectations
- Encouraged student independence and understanding instead of memorization
- Guided students through online tools for Statistics course

**Honors Math Teaching Assistant** - *Orange Coast College* Fall 2015 - Spring 2020

- Assigned, collected, and graded homework and exams for the following Honors Math courses:
  - Calculus 1, 2, 3 (Single and Multivariable Calculus)
  - Linear Algebra and Differential Equations
  - **Discrete Mathematics** and Calculus on Manifolds
- Taught standard problem solving strategies and proof writing techniques
- Collaborated with Professor on curriculum update based on student feedback and research in pedagogy
- Participated in meetings on curriculum design, textbook choice, and course materials
- Mentored students in navigating college courses and STEM transfer pathways
- Promoted Honors Math participation to underrepresented students

**Graduate Student Grading Assistant** - *California State University, Long Beach* Fall 2019

- Graded homework and exams for College Algebra class of ~200 students
- Planned and led bi-weekly problem solving sessions
- Collaborated with Professor on course organization and grading schemes
- Uplifted students confidence in Math via dialogue focused on student experiences

**Entry Level Mathematics Tutor** - *Self-Paced Math at Orange Coast College* Fall 2014 - Fall 2015

- Worked in a free Alternative Math program for racially and culturally diverse non-traditional students
- Focused on retention, remediation, and transfer level course preparation at students' own pace
- Assessed knowledge, identified individual study styles, and adjusted teaching techniques accordingly

## Research Experience

**Research Areas:** Low Dimensional Topology, Classical and Harmonic Analysis, and PDEs

**Collaboration with Paata Ivanisvili, PhD** - *University of California, Irvine* Spring 2020

- **Submitted paper** on Exponential Integrability for log-concave measures

**Collaboration with Paata Ivanisvili, PhD** - *University of California, Irvine* Winter 2020

- Contributed to studying the relationship between backwards heat inequality, a heat equation, and concavity

**Collaboration with Ryan Blair, PhD** - *California State University, Long Beach* Fall 2019

- Contributed to research on Knot Distortion on embedded surfaces

## Skills

- In-depth domain knowledge of graduate, undergraduate, and pre-college Mathematics
- Up-to-date with current education methods focusing on a dynamic, hands-on, student-centered approach
- Committed to preparing marginalized students for long-term academic and career success
- Effective written and oral communication with faculty and students of various cultures and backgrounds
- Flexible and quick in learning modern teaching tools, platforms, and technical skills

## Seminars and Conferences Attended

**Number Theory, Analysis, and Geometric Topology in Southern California Area**

- UCI Number Theory Day Oct 12th, 2019
- UCR AMS Sectional Meeting November 9th -10th, 2019
- UCI Fall Quarter 2019 Harmonic Analysis seminars Fall 2019
- CSULB Geometric Topology Graduate Student Seminar Spring 2019
- UCLA/Caltech Analysis Seminars Winter 2018