Lucas Kerbs

916–425–8346 | 732 Interdrive Apt. 1E, Saint Louis, MO 63130 | kerbs@wustl.edu

EDUCATION

Washington University
San Louis, MO
PhD. in Mathematics
Expected June 2027

California Polytechnic University, San Luis Obispo
San Luis Obispo, CA
Masters of Science in Mathematics
Received June 2022
- Thesis: Searching for Holes in the Matrix Universe, or the Beginnings of Algebraic Topology in Free Analysis.
- Honors: With Distinction

Biola University
La Mirada, CA
Bachelor of Science in Mathematics
Received May 2020
- Honors: Summa Cum Laude, Dean's List Every Semester

RESEARCH EXPERIENCE

Summer Research + Graduate Thesis
June 2021 – June 2022
Advisor: Dr. Ryan Tully-Doyle

Working closely with Dr. Tully-Doyle, we spent the summer reading various papers in noncommutative function theory and real algebraic geometry with an emphasis on the algebraic structures that underlies the theory. Throughout the academic year, we are using a recent paper by J.E. Pascoe to build new topological techniques that can help us understand noncommutative sets and the functions defined on them.

TEACHING

Full Responsibility Instructor

Summer 2023:	Quantitative Reasoning
Winter 2022:	Pre-Calculus
Fall 2021:	Pre-Calculus
Spring 2021:	Buisness Calculus
Winter 2021:	Pre-Calculus
Fall 2020:	Pre-Calculus

Teaching Assistant

Fall 2023:	Calculus I

ACADEMIC RECOGNITION

Edward N. Van Duyne Scholarship
2021
Awarded to Mathematics Majors who excel academically.

Charles J. Hanks Excellence in Mathematics Award
2022
Awarded for outstanding accomplishment and talent in mathematics.

SELECTED TALKS

November 2022: Szego Seminar, Washington University
Searching for a Free Fundamental Group