

# Zach Wagner

Department of Mathematics  
UC Santa Barbara

zwagner@math.ucsb.edu  
<https://zachwagner.github.io/>

## Education

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UC SANTA BARBARA 2019–PRESENT

*Ph.D., Mathematics*

UC SANTA BARBARA 2019–2020

*M.A., Mathematics*

UC LOS ANGELES 2010–2014

*B.S., Applied Mathematics*  
*Specialization in Computing*

## Teaching Experience

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TEACHING ASSOCIATE (INSTRUCTOR OF RECORD)

- Math 6A (Vector Calculus): Summer Session A 2021

TEACHING ASSISTANT

- Math 3A (Differential Calculus): Spring 2020
- Math 4B (Elementary Differential Equations): Spring 2021
- Math 6A (Vector Calculus): Winter 2022
- Math 6B (Vector Calculus): Winter 2020, Summer Session B 2020, Fall 2021
- Math 34A (Calculus for Social and Life Science Majors): Fall 2019
- Math 117 (Methods of Analysis): Summer Session B 2021
- Math 118A (Real Analysis): Fall 2020
- Math 118B (Real Analysis): Winter 2021

## Academic Employment

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### UCSB MATHEMATICS DEPARTMENT

- Graduate Student Researcher. Spring 2022-Present.
- Teaching Assistant/Associate. Fall 2019-Winter 2022.

### UCSB INSTRUCTIONAL DEVELOPMENT

- Summer Teaching Institute for Associates Facilitator. Spring 2023-Summer 2023, Spring 2022-Summer 2022.

## Seminars/Colloquia

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### TALKS GIVEN

- UCSB SIAM Graduate Seminar, April 2023. *Fredholm Approach to the Lippman-Schwinger Equation.*
- UCSB SIAM Graduate Seminar, November 2022. *Relativistic Quantum Mechanics through Application of Dirac Theory.*
- UCSB SIAM Graduate Seminar, May 2022. *Basics of the Dirac Equation and Related Results.*
- UCSB SIAM Graduate Seminar, March 2022. *Elementary Mathematical Principles in Quantum Computing.*
- UCSB Graduate Algebra Seminar, November 2020. *Relationships between Complex Tori and Elliptic Curves.*
- CSULB Graduate Student Seminar, April 2019. *Introduction to the Mapping Class Group.*

### CONFERENCES ATTENDED

- DFTK Workshop, August 2022, Sorbonne University.

## Honors/Awards

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- Academic Senate Outstanding Teaching Assistant Award Nominee, 2021.

## Service/Outreach

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- UCSB SIAM Graduate Seminar President, Spring 2023-Present; Vice President Fall 2022 - Winter 2023
- UCSB DRP Mentor, Winter and Spring 2022.
- Panelist for AWM and PMA Graduate Student Panel, Fall 2020 and Winter 2021.
- Panelist for the UCSB Mathematics Transfer Student Q&A, Fall 2019, Fall 2020, and Fall 2021.
- CSULB Graduate Reading Seminar Inaugurator/Administrator, Spring 2019.

## Industry Employment

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WEDBUSH SECURITIES	2018–2019
<i>Senior Database Administrator</i>	
REAL SOFTWARE SYSTEMS, LLC	2014–2018
<i>Database Developer</i>	