

# Zachary Baugher

Institution: University of California, Los Angeles

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## **Education**    **University of California, Los Angeles**

Ph.D. Mathematics, September 2022-present.

Quals passed: Basic Exam, Algebra.

## **University of Cambridge**

MASt Mathematics, 2021-2022.

Essay: “Complex Multiplication and Kronecker’s *Jugendtraum*.”

## **University of Virginia**

B.A. Mathematics with Highest Distinction, 2017-2021.

Thesis: “Algebraic Number Theory and the Kronecker-Weber Theorem.”

Advisor: Andrei Rapinchuk.

GPA: 3.94/4.00.

## **Awards**    **E.J. McShane Prize** at UVA, 2021.

**Arizona Winter Semester**, Stipend for participation (\$400), 2021.

**E.E. Floyd Prize** at UVA, 2020.

**Putnam Award** at UVA, 2017.

**Jefferson Scholarship** at UVA, 2017-2021.

## **Teaching**

**UCLA**    **Teaching Assistant**, Integration and Infinite Series, F22, W23.

**UVA**    **Grader**, Advanced Linear Algebra, Spring 2021.

**Teaching Assistant**, Complex Variables with Applications, Fall 2020.

**Grader**, Advanced Multivariable Calculus and Linear Algebra I, Fall 2019.

## **Talks**

**UCLA**    “Shtukas: What and Why?,” Adic Seminar, Mar. 2023.

“Factor Groups and Representations,” Reductive Groups Seminar, Feb. 2023.

“Introduction to Adic Spaces,” Adic Seminar, January 2023.

“Modular Symbols and Hida theory,” Hida Theory Seminar, November 2022.

“Introduction to Modular Forms,” Hida Theory Seminar, October 2022.

**Cambridge**    “The Kronecker-Weber Theorem,” Part III Seminar, December 2021.

**UVA**    “Modularity of a Certain Calabi-Yau Threefold” (with Spencer Martin),  
Math 8510 final presentation, May 2021.

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