

# Nathaniel Hurst

## Curriculum Vitae

Santa Barbara  
+1 (310) 531 3807  
nhurst0003@gmail.com  
natehurst.github.io  
nathaniel-hurst  
NateHurst

### Summary

Highly motivated professional with a background in Mathematics. Adept at managing multiple projects, streamlining processes, and fostering team collaboration to exceed goals.

### Education

2023–Present **B.Sc. in Mathematics**, *University of California, Santa Barbara*  
**GPA: 3.94/4.0.** Honors Program/Dean's Honors.

### Experience

2025–Present **Mathematics Tutor**, *UC Santa Barbara*, Santa Barbara, CA

- Led tutorial sessions alongside undergraduate courses including Linear Algebra, Calculus, and Differential Equations. Hosted drop-in homework help for students.
- Developed skills in interpersonal connection, time management, and teaching.

### Personal Projects

- 2025 **Directed Reading Program**, *UCSB Math Department*
- Studied Algebraic Geometry under the mentorship of a professor. Focused on the Quillen-Suslin Theorem, studying the relationship between algebraic vector bundles over affine space and finitely generated projective modules.
  - Produced and presented this [paper](#) and this [poster](#).
- 2024 **Undergraduate Research**, *UCSB Econ Department*
- Researched the interactions between misinformation and protocols, including Twitter Community Notes. Managed databases including information from 1M+ tweets. Developed skills in data visualization and research presentation.

### Skills

Programming Python, R, C++  
Tools Excel, Git, LaTeX

### Languages

English Native  
Hebrew Learning  
German Learning

### Interests

Academic Algebraic Geometry, Mathematical Cryptography, Algebraic Number Theory  
Hobbies Hiking, Climbing, Chess