

# Calum Heldt

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## EDUCATION

### University of Nebraska at Omaha – 4.0 GPA

Anticipated 2027

- Bachelor of Science in Mathematics with a Pure Math Concentration
- Bachelor of Science in Computer Science

### Additional Graduate Coursework

- Local Fields, Preliminary Arizona Winter School (PAWS) Fall 2024
- Modern Algebra I, University of Nebraska-Lincoln Fall 2024

## EXPERIENCE

### Modeling and Visualizing STEM Project @ [mavs.uno](https://mavs.uno)

June-Aug. 2024

#### Suzanne & Walter Scott Foundation

- Intuitively explained high-level STEM topics through interactive visuals and lessons
- Created a website using ReactJS intended for public use

### Math Education Research

June 2024 – Present

#### University of Nebraska at Omaha

- Conduct statistical research methods to examine college students' understanding of logarithmic identities
- Use results to strengthen a conceptual framework for applying logarithmic identities

### Galois Theory Research

June 2022 – May 2024

#### University of Nebraska at Omaha

- Classified a family of Galois  $p$ -Groups of maximal nilpotency class
- Presented findings at the 2024 Hopf-Algebras and Galois Module Theory Conference

### Math Club President

May 2024 – May 2025

#### University of Nebraska at Omaha

- Organize educational events including colloquiums and chalk talks
- Foster a strong mathematical community on campus

### MathCOUNTS Coach

Aug. 2024 – Present

#### Westside Middle School

- Coach middle school students for the MathCOUNTS national competition series
- Teach problem-solving skills and promote math engagement

### Learning Assistant, Teaching Assistant, and Tutor

Aug. 2023 – Present

#### University of Nebraska at Omaha

- Tutor student enrolled in proof writing courses
- Assist professors with classroom instruction and grading for various math courses

## SKILLS

- Python, C, React, and Ionic Angular programming
- LaTeX typesetting
- Fullstack web development
- Collaborative problem-solving
- Research in algebra, number theory, differential equations, and math education

## ACHIEVEMENTS

- NASA Nebraska Space Grant Recipient (Sept. 2023 – April 2024)
- Success in math competitions: 10 points on the Putnam exam ('24), 3rd statewide at UNL Math Day ('23 & '22), 10th as a team at MAO Nationals ('23)