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   June‑Aug. 2024
Suzanne & Walter Scott Foundation
- Won the 3 Blue 1 Brown Summer of Math Exposition contest
- 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)