

Preston McCullough

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Summary

Background in mathematics and computer science, with substantial experience in teaching and learning. Seeking teaching, research, or technical roles that engage deeply with mathematical and computational ideas, especially in algebra, coding theory, discrete mathematics, and theoretical computer science. Committed to building strong foundations and careful reasoning, while learning and integrating emerging tools thoughtfully in an AI-driven world.

Education

M.S. Mathematics

California State University, Fresno

B.S. Computer Science

California State University, Fresno

Selected Publications

Cochrane, N., Gomez, T., Warmerdam, J., Flores, M., McCullough, P., Weinberger, V., Pirouz, M., Pattern Analysis for Transaction Fraud Detection, IEEE CCWC, 2021.

Pirouz, M., McCullough, P., A Data-Centric Approach to Post-Pandemic Housing Market Analysis, Proceedings of the 2024 IEEE 15th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), 2024.

Skills

- Communication: explaining technical ideas clearly to diverse audiences.
- Reasoning and problem formulation in mathematical and computational contexts.
- Learning management systems: Canvas, MyOpenMath.
- Technical tools: Git, GitHub, LaTeX; Microsoft Office; Google Workspace.
- Programming languages: C++, Python, Haskell, Lean4.

Teaching & Instructional Experience

Lemoore College

Spring 2026

Adjunct Faculty

- Teach Contemporary Mathematics and the accompanying support course, integrating lecture, discussion, and activity-based instruction.
- Design and implement weekly in-class activities emphasizing mathematical reasoning, problem solving, and participation.
- Develop and manage course materials in Canvas, including modules, assignments, announcements, and grading.
- Create instructional materials (slides, worksheets, and assessments) aligned with course outcomes and accessibility standards.

California State University, Fresno

2023–2025

Teaching Assistant, Tutor, Supplemental Instruction Leader, Instructional Student Assistant

- Planned and facilitated activity sections supporting Statistics, Calculus, and transition-to-proof courses.
- Provided one-on-one and small-group tutoring for lower- and upper-division mathematics.
- Managed Canvas course materials, grading, and office hours.
- Designed and led peer-led review sessions integrating study skills with course content.
- Collaborated with course instructors to develop instructional materials and learning activities.