Curriculum Vitae

Bradley McCoy

Education.

- **Montana State University**. Ph.D. Computer Science (Expected 2024).
- **Western Washington University**. M.S. Mathematics (2012).
- **Mercyhurst University**. B.A. Mathematics, Mathematics Education (2008).

Appointments.

- **Montana State University**. Teaching and Research Assistant (2018-present).
- **Western Washington University**. Mathematics Instructor (2012-2018).
- **Johns Hopkins University Center for Talented Youth**. Mathematics Instructor (Summers 2013, 2014, 2015).
- **Western Washington University**. Teaching Assistant (2010-2012).

Research Papers.

1. **Catching Polygons**. Joint with Eli Quist, Anna Schenfisch. Available at https://arxiv.org/abs/2201.01286.
2. **If You Must Choose Among Your Children, Pick the Right One**. Joint with Benjamin Holmgren, Brittany Fasy, David Millman. Available at https://arxiv.org/abs/2103.13882.

Selected Talks.

- **Minimum Homotopy Area** SIAM Pacific Northwest Section, 2022.
- **Catching Polygons** Fall Workshop on Computational Geometry, 2021.
- **As Seen On TV: Examples of Calculus on Television** Washington Two-Year College Mathematics Conference, 2015.

Service.

Storytelling Project

- Develop culturally responsive curriculum that engages American Indian and rural students in computer science. (2018-present).
- Taught many outreach events aimed at increasing participation in computer science among underrepresented groups (2018-present).

Reviewer

- External Reviewer Symposium on Computational Geometry (2019,2021).
- External Reviewer Canadian Conference on Computational Geometry (2020,2021).

- External Reviewer European Workshop on Computational Geometry (2019).

Science Olympiad

- Organized Montana Science Olympiad Codebusters event (2021-2022).

Teaching.

Montana State Instructor

- Basic Data Structures and Algorithms
- Data Structures and Algorithms
- Discrete Mathematics

Montana State Teaching Assistant

- Advanced Algorithms
- Social and Ethical Issues in Computer Science
- Programming Languages
- Discrete Mathematics

Western Washington Instructor

- Pre-Calculus I and II
- Calculus I, II and III
- Introduction to Statistics
- Introduction to Proofs
- Linear Algebra I and II
- Calculus based Statistics