

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.

Outreach.

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).

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