

Adam Howard

Curriculum Vitae

Montana State University
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Research Interests

Algebraic and Geometric Topology, Knotted Surfaces in 4-Manifolds, Mathematical Physics

Education

2016–Present **Ph.D. student in Mathematics**, *Montana State University*, Bozeman, MT.
Advisor: Ryan Grady.

2012–2016 **B.S. Mathematics**, *University of Utah*, Salt Lake City, UT.

Awards

Summer 2019 **Gary G. Sackett Research Fellowship**, *Montana State University*.

Fall 2016 **Meritorious Award**, *The Graduate School, Montana State University*.

Teaching Experience

2016–present **Instructor of Record**, *Montana State University*.

Responsibilities include organizing and delivering lectures, creating and grading weekly quizzes and assignments, writing and grading exams, holding office hours, and working in the Math Learning Center

Courses Taught at Montana State University

M 105 **Contemporary Mathematics**, (Spring '17).

M 121 **College Algebra**, (Fall '16).

M 171 **Calculus I**, (Summer '17, Fall '17).

M 172 **Calculus II**, (Spring '18, Summer '18, Fall '18).

M 221 **Linear Algebra (TA)**, (Spring '19).

M 273 **Calculus III (TA)**, (Fall '19).

Service

Fall 2019 **Organizing Committee Member for the Directed Reading Program (DRP)**.

Fall 2019 **Mentor for DRP**, *Hannah Combs*, An Illustrated Theory of Numbers.

Spring 2019 **Mentor for DRP**, *John Schafer*, Naive Lie Theory.

Fall 2018 **Mentor for DRP**, *Miguel Kennard*, A Topological Apertif.

Spring 2019 - **Mentor for Big Sky Youth Empowerment**.
Present

Fall 2018 **Tutor for Big Sky Youth Empowerment**.

Talks

Sep, 2019 **Bridge Number of Satellite Knots**, *Montana State University*, Math Seminar.

Jun, 2019 **Trisections of 4-Manifolds**, *University of Wisconsin-Milwaukee*, 36th Annual Workshop in Geometric Topology.

Apr, 2019 **Knotted Surfaces in 4-Manifolds**, *Montana State University*, Graduate Student Seminar.

Oct, 2018 **Working with Differential Forms**, *Montana State University*, Graduate Student Seminar.

Mar, 2018 **The Lamplighter Group**, *Montana State University*, Graduate Student Seminar.

Oct, 2017 **The Braid Group**, *Montana State University*, Graduate Student Seminar.

Sep, 2017 **Some Thoughts about Knots**, *Montana State University*, Graduate Student Seminar.

- Mar, 2017 **Prees a.k.a. Pregroups**, *Montana State University*, Graduate Student Seminar.
- Nov, 2016 **Folding Finite Graphs and Free Groups**, *Montana State University*, Graduate Student Seminar.

Conferences and Workshops Attended

- July, 2019 **Perspectives on Dehn Surgery**, *ICERM*, Providence, RI.
- June, 2019 **36th Annual Workshop in Geometric Topology**, *Milwaukee, WI*.
- May, 2019 **Moab Topology Conference**, *Moab, UT*.
- May, 2018 **Arches Topology Conference**, *Moab, UT*.
- Aug, 2017 **Topological and Geometric Methods in QFT**, *Bozeman, MT*.

References

Ryan Grady (Advisor)
Montana State University
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Lukas Geyer
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Montana State University
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