AMY JENSON

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EDUCATION

Monatana State University   *Aug 2020 - Present*
M.S. Mathematics GPA: 3.75   Advisor: Dr. Scott McCalla
Department of Mathematical Sciences   Dr. Jason Amundson

University of Alaska Southeast   *Aug 2016 - May 2020*
B.S. Mathematics GPA: 3.98 with Honors and Magna Cum Laude   Advisors: Dr. Brian Blitz
Thesis: *A SEIRV mathematical model for the dynamics of Yellow Fever Virus*   Dr. Megan Buzby
Department of Natural Sciences

PUBLICATIONS

1. **A.J. Jenson**, J.M. Amundson, J. Kinglsake, E. Hood (202X) Long-period variability in ice-dammed glacier outburst floods due to evolving catchment geometry. Posted as preprint in *Cryosphere. doi:10.5194/tc-2021-141*

PROFESSIONAL AND ACADEMIC DEVELOPMENT

1. **A.J. Jenson**, J.M. Amundson, J. Kinglsake, E. Hood. Evolution of glacial lake outburst floods over annual to decadal timescales. *Northwest Glaciologists'* (2020) Oral Presentation

2. **A.J. Jenson**, M. Buzby. SEIRV model of yellow fever among *Aedes agypti. One Health One Future* (2020) Poster Presentation

Professional Memberships
2019-Present Pi Mu Epsilon Mathematics Honor Society

CURRENT APPOINTMENT

Montana State University, Teaching Assistantship, Bozeman, MT

SCHOLARSHIPS AND AWARDS

2020-2021 Presidential Fellowship Award, Montana State University
2020 Outstanding Graduate in Mathematics, University of Alaska Southeast
2019-2020 Biomedical Learning and Student Training Undergraduate Research Grant
2016-2020 University of Alaska Scholar
2016-2020 Alaska Performance Scholarship Tier 1
2016-2020 Wrangell Scholarship
2019-2020 Alumni Association Scholarship
2018-2020 Juneau Rotary Club Scholarship
2019-2020 Ron Seater Mathematics Award, Univ. of Alaska Southeast
2017-2018 University of Alaska Southeast Leadership Award
2017-2018 Gerald W. Butts Memorial Scholarship
2016-2017 UAS Leadership Award

RELEVANT WORK AND INTERNSHIP EXPERIENCE

- **Aug 2020-Present** Teaching Assistant, Montana State University, Bozeman, MT
  - Tutored undergraduate courses online and spent time collaborating with team
- **Sep 2019-June 2020** Research Technician, University of Alaska Southeast
  - Working closely with a faculty mentor on adapting a model of glacial lake outburst floods
  - Used and wrote code in MATLAB programming language
  - Adapted complex model rigorous in mathematics, physics, glaciology, and hydrology
  - Combined outburst flood model with and glacier flow model to account for changes in glacier and basin geometries
  - Wrote manuscript on results of modeling and submitted to *The Cryosphere*
  - Promoted from undergraduate research assistant to research technician work post-graduation
  - Full model is available for public use on Github
- **Summer 2019, 2020, 2021** Commercial Fisherperson, F/V Ruby Bristol Bay, AK
  - Living aboard small fishing vessel maintaining good relationships with captain and crew
  - Worked under stressful and difficult circumstances
- **Oct 2019** Teaching Assistant, University of Alaska Southeast, Juneau, AK
  - Supported instructor in guiding students backpacking and navigating in the wilderness
  - Facilitate group discussion and decision-making about challenging situations
- **Fall, Spring, 2016-2018** Math Tutor, University of Alaska Learning Center; Juneau, AK
  - Assisted students with a variety of math assignments

TESTS AND COMPETITIONS

Putnam	Score: 10	Rank: 1088.5 / 3428	Percentile: 68

SERVICE

May-June 2016 Volunteer with medical team, Arusha, Tanzania and surrounding areas
Dec 2016-July 2018 Volunteer with Big Brothers Big Sisters, Juneau, AK
May 2017 Organized fundraiser running event for humanitarian efforts, Juneau, AK
Nov 2017, 2018, 2019 Volunteered/planned fundraiser for underprivileged women, Juneau, AK

CERTIFICATIONS

2019-Present Wilderness First Responder, NOLS Wilderness Medicine
2020-Present Avalanche Level 1, University of Alaska Southeast

TECHNICAL SKILLS

Expertise: Matlab, R
Proficient: LATEX, Adobe Illustrator, Excel