

# Lucia Williams

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**Education**    **Montana State University**  
Ph.D., Computer Science, 2017-present  
Advisor: Brendan Mumey

**University of Washington**  
B.S., Applied Computational and Mathematical Sciences, 2014  
B.A., Community, Environment, and Planning, 2014  
Minor: Mathematics

**Work**            **Research Assistant**  
Biofilm Resource and Information Database (BRaID), 2017-present

**Instructor**  
Montana State University, summer 2019 and summer 2020  
The Joy & Beauty of Data (introduces programming with Python)

**Data Scientist**  
Marchex (online advertising company), 2014-2017

**Data Visualization Intern**  
Mazama Science (data visualization consulting company), 2013

**REU Student**  
Montana State University, summer 2013  
Project: An integer linear programming solution to the collaborative group provisioning problem.

**Grader**  
University of Washington, 2012-2014  
Courses: Real Analysis, Linear Algebra, Multivariable Calculus,  
Discrete Mathematical Modeling

Publications	Lucia Williams, Brendan Mumey. Maximal Perfect Haplotype Blocks with Wildcards. <i>iScience</i> , vol 101149. 2020.
	Lucia Williams, Brendan Mumey. Extending Maximal Perfect Haplotype Blocks to the Realm of Pangenomics. <i>Algorithms for Computational Biology (AlCoB)</i> . Lecture Notes in Computer Science, vol 12099. 2020.
	Robin Lynne Belton, Brittany Terese Fasy, Rostik Mertz, Samuel Micka, David L. Millman, Daniel Salinas, Anna Schenfisch, Jordan Schupbach, Lucia Williams. Reconstructing Embedded Graphs from Persistence Diagrams. <i>Computational Geometry</i> , 2020.
	Lucia Williams, Gillian Reynolds, Brendan Mumey. RNA Transcript Assembly Using Inexact Flows. <i>2019 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)</i> , 2019.
Posters	<i>Decomposing inexact flows with application to RNA transcript assembly</i> . Research in Computational Molecular Biology (RECOMB), May 2019, Washington, D.C.
Awards and Fellowships	<b>Benjamin Fellowship</b> Montana State University College of Engineering, 2017-2018
	<b>Travel Awards</b> MSU Graduate School Professional Advancement Grant, spring 2020 Montana INBRE Competitive Student Travel Award, spring 2019
Workshops	<b>Computing Research Association Grad Cohort for Women</b> San Francisco, 2018 Chicago, 2019
Service	<b>Conference Volunteer</b> Research in Computational Molecular Biology (RECOMB), spring 2019
	<b>Co-organizer</b> Montana State University Department of Computer Science prospective student visit day, spring 2019 and 2020 Montana State University Department of Computer Science new graduate student orientation, fall 2020

References	Dr. Brendan Mumey Computer Science Montana State University brendan.mumey@montana.edu +1 (406) 994-7811	Dr. David Millman Computer Science Montana State University david.millman@montana.edu +1 (406) 994-4261
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