

# Connor Progin

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## EDUCATION

### **Oregon State University (2022-Present)**

Ph.D., Mathematics (expected June 2027)

### **University of Portland (2018-2022)**

B.S., Applied Mathematics, Biology

## ACADEMIC INTERESTS

Applied and computational topology, topological data analysis

## PUBLICATIONS

*Topological Energy Dynamics of Food Web Graphs*

CRL-J, C. Progin

preprint: [www.academia.edu/127348782](http://www.academia.edu/127348782)

*Leveraging TDA for disaster preparation, a cartographic perspective*

C. Progin, J. Thatcher, C. Giusti, C. Thatcher, C. Fish, D. Retchless

Accepted to Abstracts of the ICA (April 2025)

## GRANTS & FELLOWSHIPS

NSF Travel Grant, GIScience 2025, Christchurch, NZ

Awarded funding to present research on road network analysis using TDA

Grant hosted by University of Wisconsin - Madison

## TEACHING

Instructor, Vector Calculus (MTH 254), Oregon State University

Instructor, Integral Calculus (MTH 252), Oregon State University

## TALKS

*From Directed Graphs to Maximum Flow via Cellular Sheaves*

Cascade Topology Seminar, Portland State University, (June 2026)

*Sheaf Cohomology and the Max-Flow-Min-Cut Theorem*

Geometry/Topology Seminar, Oregon State University (Feb. 2025)

## WORKSHOPS ATTENDED

Cycle Representatives in Applied Homological Algebra Workshop,

Banff International Research Station (Aug. 2025)

## SERVICE

Session organizer, *Applications of Topology in Biological Systems*

SIAM Conference on Applied Algebraic Geometry

University of Wisconsin - Madison (July 2025)

Math circle leader, Corvallis, OR (2025-Present)

## TECHNICAL SKILLS

Python, MATLAB