

Ryan C. Gelnett

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Areas of Interest

Configuration spaces and Algebraic Topology

Education

State University of New York College at Albany

Doctor of Philosophy Student in Mathematics

Expected May 2027

State University of New York College at Oswego

Bachelor of Science in Applied Mathematics

Minor in Logic

Summa Cum Laude

May 2021

Papers and Preprints

On spaces of embeddings of circles in surfaces 2026

To appear Mich. Math. J.

arXiv:2601.12450

Configuration spaces of circles in the plane 2026

With Justin Curry and Matthew Zaremsky

J. Homotopy Relat. Struct.

arXiv:2411.04800

Research Projects & Independent Studies

Spring 2024 – Weibel’s K-Book.

Spring 2021 – Research project on Lagrangian Mechanics. Resulted in a slide presentation at SUNY Oswego Quest 2021.

Fall 2020 & Spring 2021 – Algebraic Topology, independent study, presentation, and capstone paper.

Summer & Fall 2019 – Research project on polyominoes. Resulted in a poster presentation and a slide presentation at Seaway Sectional Meeting of the Mathematical Association of America (MAA).

Spring 2019 – Differential Topology, independent study. Resulted in a slide presentation at SUNY Oswego Question 2019.

Talks – Invited and Contributed

Invited

On spaces of embeddings of circles in surfaces

(UBDoG–University at Buffalo) Feb. 23, 2026

Contributed

- On spaces of embeddings of circles in surfaces
(GSTGC–Rutgers University) Apr. 26, 2026
- Configuration Spaces of Jordan Curves in Riemann Surfaces
(BUGCAT–Binghamton University) Nov. 15, 2025
- Point Selections from Jordan Domains in Riemann Surfaces
(ATIA–SUNY Albany) Sept. 30, 2025
- Configuration Spaces of Circles in the Plane
(Young Topologist’s Meeting–KTH Royal Institute of Technology) June 23-27 2025
(GTA Conference–Temple University) May. 31, 2025
(ANYSRGMC–Syracuse University) Mar. 28/29, 2025
(UNYSTS–Binghamton University) Mar. 2, 2025
(NEAT–Providence College) Nov. 2/3, 2024
(BUGCAT–Binghamton University) Oct. 27, 2024
(Algebra/Topology Seminar–SUNY Albany) Oct. 10, 2024
- Extended Grassfire Transform on Medial Axes of 2D Shapes
(ATIA–SUNY Albany) Jan. 7, 2025

Schools and Workshops Attended

- Configuration spaces at University of Michigan May 25th – 29th 2026
- Focus Program on Algebraic Topology In memory of Fred Cohen at the Fields Institute (Virtually due to occupation) July 23rd – 25th 2025
- Young Topologist’s Meeting at KTH Royal Institute of Technology June 23rd – 27th 2025
- Homological aspects of groups and their classifying spaces at SwissMAP Research Station in Les Diablerets, Switzerland May 4th – 9th 2025
- Groups, Actions, and Geometries at Tufts University August 7th – 11th 2023

Conferences and Seminars Attended

- Topology Festival (Cornell University) Spring 2026
- GSTGC (Rutgers University) Spring 2026
- BUGCAT (Binghamton University) 2021 – 2025
- ANYSRGMC (Syracuse University) Spring 2025
- GTA Conference (Temple University) Spring 2025
- Algebra / Topology Seminar (SUNY Albany) 2021 – 2025
- UNYSTS (Binghamton University) Spring 2025
- NEAT (Providence College) Fall 2024
- AMS Eastern Sectional (SUNY Albany) Fall 2024
- MAA Seaway 2018 – 2022

Relevant Work Experience

Teaching

Calculus 3 (Multivariable Calculus, Instructor)	(Online, SUNY Albany) Summer 2026 (SUNY Albany) Fall 2025
Topics in Contemporary Mathematics (Instructor)	(SUNY Albany) Spring 2026
Educational Opportunities Program (EOP, Instructor)	(SUNY Oswego) Summer 2025 (SUNY Oswego) Summer 2024
Calculus 2 (Integral Calculus, Instructor)	(SUNY Albany) Spring 2025 (SUNY Albany) Fall 2024
Calculus 1 (Differential Calculus, Instructor)	(Online, SUNY Albany) Summer 2024 (SUNY Albany) Spring 2024
Precalculus (Instructor)	(SUNY Albany) Fall 2023 (SUNY Albany) Fall 2022
Survey of Calculus (Grader/Teaching Assistant)	(SUNY Albany) Fall 2021 (SUNY Albany) Spring 2022 (SUNY Albany) Spring 2023
Elementary Statistics (Grader/Teaching Assistant)	(SUNY Albany) Fall 2021 (SUNY Albany) Spring 2022 (SUNY Albany) Spring 2023
EOP (Teaching Assistant)	(SUNY Oswego) Summer 2019
Tutoring	(SUNY Albany) Fall 2021 – Present (SUNY Oswego) Fall 2018 – Spring 2021

Miscellaneous

Math Peer Leader	(SUNY Oswego) Fall 2019
Genius Olympiad Assistant	(SUNY Oswego) Summer 2019

Awards & Recognition

Louis R. DeRitter Award (Received twice) – Each year the SUNY Oswego mathematics faculty select outstanding junior and/or senior mathematics students to receive this award. Award winners are chosen for their performance in upper-division math courses.

Presidents List (GPA of 3.80+) – Each semester from Fall 2017 to Spring 2021.

Member of Phi Kappa Phi – Ever since 2019, Student Honor Society.

William Lowell Putnam Mathematical Competition – Participant in years 2018 and 2019. Ranked 1831.5 out of 3428 in 2019.

Other Activities

- Math Club President - During the 2019-2021 academic years.
- Math Club Secretary - During the 2018-2019 academic year.
- Moderated Talks at the Spring 2019 MAA Seaway Sectional meeting.
- Attended MAA Seaway Sectional Meetings Fall 2018 - fall 2019.