

EDUCATION

- **M.S. in Mathematics** March 2026
Exp. Paper: “Sequences of metric spaces”
Advisors: Dr. Sergio Zamora Barrera
Dr. Christine Escher
Oregon State University (OSU)
- **B.S. in Mathematics** (summa cum laude) May 2023
University of Louisiana at Lafayette (ULL)
- **B.A. in English, Literature** (summa cum laude) May 2023
Minor: Philosophy (36 hours)
University of Louisiana at Lafayette (ULL)

RESEARCH INTERESTS

- Metric geometry, metric group theory, & anything new to me!

PUBLICATIONS

- “Decreasing paths of polygons,” (with Scott Whitman, Isaac Kulp, Dr. Leonel Robert Gonzalez, and Dr. Charlotte Ochanine), *Discrete & Computational Geometry*. 2025.
Journal: <https://doi.org/10.1007/s00454-025-00750-5>
ArXiv: <https://doi.org/10.48550/arXiv.2402.12643>
- “Building homotheties through pinches,” (with Franziska Riepl, Dr. George Turcu, Dr. Leonel Robert Gonzalez, and Lucas Walls), *Linear and Multilinear Algebra*. 2021.
Journal: <https://doi.org/10.1080/03081087.2021.1993124>
PDF: <https://userweb.ucs.louisiana.edu/~C00254569/Pinches2.pdf>

TALKS & PRESENTATIONS

- “Sequences of metric spaces,” MS presentation, Oregon State University, March 16th, 2026.
Slides: <https://drive.google.com/file/d/1sL2cvpmu6-shyUlvCiApkiuXEEr3iFtX/view?usp=sharing>
- “Approximately 49 minutes to talk about topological groups,” chalk talk for Geometry and Topology Seminar, Oregon State University, October 1st, 2025.
- “Gromov-Hausdorff convergence and lower semi-continuity of the fundamental group,” talk for Graduate Student Topology & Geometry Conference (GSTGC), Indiana University Bloomington, April 13, 2025. (*Received funding, but was unable to attend, due to sickness.*)
Slides: https://drive.google.com/file/d/17gaqpO2YSoE-8EVHc7rkg_1Opa7TG9si/view?usp=sharing
- “Gromov-Hausdorff convergence and lower semi-continuity of the fundamental group,” talk for Geometry/Topology seminar, Oregon State University, March 31, 2025.
Slides: https://drive.google.com/file/d/17gaqpO2YSoE-8EVHc7rkg_1Opa7TG9si/view?usp=sharing
- “Decreasing paths of polygons,” talk for *MathForAll* Conference on Math Education and Research, Oregon State University, Spring 2024.
Slides: <https://drive.google.com/file/d/1NlsTko0ULRBYCBd9fYnPM2MmNg>

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- “Persistence at Eternity: Borges’s ‘The Immortal’ & the Philosophical Problem of Persistence,” Paper Presentation for ULL *Undergraduate Research Showcase*, University of Louisiana at Lafayette. Spring 2023.
- “Mathematics at ULL,” (with Bailey Meche), Invited Student Talk for *Science Day* at the University of Louisiana at Lafayette, Fall 2022.
- “On the Embedding Problem for Polygons, Polyhedra, & Beyond,” Poster Presentation for *MathForAll* Conference on Math Education and Research, Tulane University, Online Conference. Spring 2022.
- “Building homotheties through pinches,” (with Franziska Riepl and Lucas Walls), Poster Presentation for *MathForAll* Conference on Math Education and Research, Tulane University, Online Conference. Spring 2021.

GRANTS

- “Geometry and Dynamics in Higher Rank Lie Groups,” *SLMath* summer graduate school, fully funded, organized by Richard Canary (U. of Michigan), Sara Maloni (U. of Virginia), Wenyu Pan (U. of Toronto), Cagri Sert (U. of Zurich), and Tengren Zhang* (Nat. U. of Singapore). Berkeley, CA, July 14-25, 2025.

SCHOLARSHIPS & AWARDS

- *Oregon Graduate Lottery Scholarship*, Office of Graduate Education, Oregon State University, Fall 2025 - Spring 2026
- *ΦBK Patricia Kennedy Rickels Outstanding Undergraduate Award*, ULL Section of ΦBK, Spring 2023
- *Departmental Award for Excellence in Philosophy*, Dept. History, Geography, and Philosophy, ULL, Spring 2023
- *Owen Reamer Award for Excellence in English*, Dept. English, ULL, Spring 2023
- *David R. Andrew Endowed Scholarship in Mathematics*, College of Sciences, ULL, Fall 2022
- *A.L. Barcelona Memorial Scholarship*, College of Liberal Arts, ULL, Fall 2022
- *I. Bruce Turner Scholarship*, College of Liberal Arts, ULL, Fall 2021
- *A.L. Barcelona Memorial Scholarship*, College of Liberal Arts, ULL, Fall 2021
- *Gordon Rickels Scholarship*, Honors College, ULL, Fall 2020
- *Gordon Rickels Scholarship*, Honors College, ULL, Spring 2019
- TOPS Academic Scholar, Fall 2018 - Spring 2022

VOLUNTEER EXPERIENCE

- **Mentor for Directed Reading Program** Spring 2026 - Present
Department of Mathematics, Oregon State University.
Mentored undergraduate students through an extracurricular reading project in mathematics of the student’s choosing. Met for 1 hr./week with students, preparing them for a presentation to an audience of their peers.
- **Mentor for ELITE PD Research Project** Fall 2025 - Spring 2026
Department of Mathematics, Oregon State University.
Mentored first-year graduate students in Oregon State University’s

mathematics department on their teaching responsibilities, as participants in the ELITE PD (engaged learning, inclusive teaching, and equity professional development) research project (<https://crmse.sdsu.edu/directory/projects/elite-pd>). Work included observations of their teaching practices, discussion, and criticism.

RELEVANT WORK EXPERIENCE

- **Graduate Teaching Assistant** Fall 2023 - Present
Department of Mathematics, Oregon State University.
Taught a section of integral calculus (Summer, 2024). Leading multiple weekly recitation sections in differential calculus, integral calculus, vector calculus, linear algebra, and discrete mathematics. Holding office and tutoring hours. Grading assignments for correctness and rigor.
- **Lead Tutor (20 hrs/week)** Fall 2020 - Spring 2023
Student Support Services - Disability, University of Louisiana at Lafayette.
Tutoring of students with registered disabilities, creating presentation-style study-guides, peer-mentoring, and advisement of program tutors. Specialized in math (algebra, trigonometry, calculus), english (writing), and logic.
- **I. Bruce Turner Scholar Archiver** Fall 2021 - Spring 2022
Edith Garland Dupre Library Special Collections, University of Louisiana at Lafayette.
Work (50 hrs. total) consisted of preparing a research collection for Special Collections at Edith Garland Dupre Library (ULL) using the notes and miscellany of environmentalist Jacob M. Valentine (organizing, re-foldering, reboxing, preparing extensive archival notes).