

Department of Mathematics  
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# Audriana Houtz

## Education

- 2027 (exp) **University of Notre Dame**, Ph.D., Mathematics  
Advisor: Andrew Putman
- 2021 **Texas State University**, M.S., Mathematics
- 2020 **Texas State University**, B.S., Mathematics

## Achievements

- 2025 **Kaneb Center Outstanding Graduate Student Teacher Award**  
University of Notre Dame
- 2024 **Kaneb Center Effective Online Pedagogy badge**  
University of Notre Dame
- 2021 **Gowens Merit Fellowship**  
Texas State University
- 2020 **R. H. Bing Award**  
Texas State University

## Papers

2. A. Houtz  
Cutting and Pasting in Handlebody Torelli  
in preparation
1. T. Keller, A. Pohlman  
Orbit sizes and the central product group of order 16  
*Annali di Matematica Pura ed Applicata* (1923 -) (2022): 1-27.

## Presentations

- Fall 2023 **Notre Dame Graduate Student Topology Seminar**  
Mini Series (4 lectures): The Torelli Group
- July 2021 **Texas State University**  
Thesis Defense
- May 2020 **Texas State University Topology Seminar**  
Computing  $K_0$  of a PID

## Teaching Experience

- Spring 2026 **Tutorial Instructor**, University of Notre Dame  
Calculus I/A (MATH 12550)
- Fall 2025 **Head Tutorial Instructor**, University of Notre Dame  
Calculus A (MATH 12350)

Summer 2025 **Instructor**, University of Notre Dame  
Calculus III (MATH 20550)

Spring 2025 **Instructor**, University of Notre Dame  
Calculus B (MATH 10360)

Fall 2024 **Instructor**, University of Notre Dame  
Calculus A (MATH 10350)

Summer 2024 **Instructor**, University of Notre Dame  
Calculus III (MATH 20550)

Fall 2023 **Tutorial Instructor**, University of Notre Dame  
Calculus III (MATH 22550)

Spring 2023 **Tutorial Instructor**, University of Notre Dame  
Calculus B (MATH 12360)

Fall 2022 **Tutorial Instructor**, University of Notre Dame  
Calculus III (MATH 22550)

Summer 2022 **Counselor**, Ross Mathematics Program

Fall 2022 **Graduate Tutor**, University of Notre Dame  
Algebra and Topology Tutor

Summer 2021 **Counselor**, Ross Mathematics Program

Summer 2019 **Counselor**, Mathworks Junior Summer Math Camp – Residential

### Professional Services

Spring 2024 **Organizer**, Notre Dame Graduate Student Seminar

Fall 2023 **Organizer**, Notre Dame Graduate Student Topology Seminar

Fall 2023 **Organizer**, Notre Dame Graduate Student Seminar

### Volunteer Work

Dec 2025 **Substitute Instructor**, Michiana Covenant Academy, Mathematics

Fall 2025 **Volunteer Instructor**, Riverbend Math Circles at Notre Dame, Wiles Math Circle

### Recommendations

**Dr. Andrew Putman**  
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University of Notre Dame  
Email: andyp@nd.edu  
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**Dr. Brian Mulholland**  
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