

# Raymond Ying

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## EDUCATION

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**Bachelor Studies in Mathematics**  
University of Florida, Gainesville, Florida  
✓ GPA: 3.98/4.0

May, 2026

## RESEARCH PROJECTS

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### Schur - P Positivity of Symmetric Functions

- ✓ Implemented nauty software - Generated useful mathematical data for implementation in future code.

### Enumerating Disappearing Translation Function

- ✓ Developed SageMath code to enumerate disappearing patterns.

### Vietoris - Rips Complexes of Small Ellipses

- ✓ Developed novel Python code to calculate parameters of stars embedded in ellipses.
- ✓ Extended mathematical results of current research in topology.

## PRESENTATIONS

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- ✓ Presentation on Symmetric Functions, University Math Society, Gainesville, Florida (20 October 2023)
- ✓ Matching People with their Ideal Homes, University Math Society, Gainesville, Florida (9 November, 2023)

## SKILLS

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**Computational:** Matlab, Python, HTML/CSS

**Typesetting:** Microsoft Word, LaTeX

**Mathematical Knowledge:** Algebra 1 through Calculus 3. Experience in set theory, logic, combinatorics, topology and analysis.

## EXPERIENCE

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### Mathematics Research Assistant

June, 2023 - July, 2024

University of Florida, Gainesville, Florida

- Worked primarily with Dr. Zachary Hamaker along with graduate students in the University of Florida math department.

### Mathematics Teaching Assistant

August, 2024 - April, 2025

University of Florida, Gainesville, Florida

- Teaching assistant for proof based mathematics class.
- Held weekly office hours. Graded exams and homework.

## CERTIFICATIONS & AWARDS

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- ✓ Microsoft Office Specialist Certification in Word, PowerPoint and Excel