

# Lily DiPaulo

University of Pittsburgh

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## Education

2025 – Present     **Ph.D. in Mathematics**, University of Pittsburgh

2023 – 2025       **B.S. in Mathematical Sciences**, Florida Institute of Technology

## Publications and Preprints

- Y. Berchenko-Kogan and L. DiPaulo, *Finite Element Spaces of Double Two-Forms With Polynomial Coefficients*, preprint, arXiv:2511.19297, submitted to *IMA Journal of Numerical Analysis*.

## Talks

March 2026       **Invited Talk**, Florida Tech Honors Seminar  
Talk on graduate student life in mathematics

December 2024   **Geometric Decomposition for Spaces of Double Forms**  
Florida Institute of Technology Mathematics Graduate Seminar

## Posters

February 2025   **Finite Element Spaces of Double Forms**  
FL-MAA & FTYCMA 58th Joint Annual Meeting

## Teaching Experience

2026 – Present   **Learning Instructor**, Seriously Addictive Mathematics

2025 – Present   **Teaching Assistant**, Department of Mathematics, University of Pittsburgh

2024 – 2025       **Supplemental Instructor, Grader**, Florida Institute of Technology  
Supported instruction in Calculus I–III, Differential Equations, Linear Algebra, Partial Differential Equations, and Modern Physics

**Academic Service and Leadership**

- 2025 – Present     **SIAM Chapter Secretary**, University of Pittsburgh
- 2025 – Present     **Math Graduate Student Organization**, University of Pittsburgh  
Planning and Budget Committee Representative; Technology Committee; contributor to the Graduate Student Guide
- 2024 – 2025        **SGA Parliamentarian**, Florida Institute of Technology
- 2023 – 2024        **MATLAB Club**, Florida Institute of Technology
- 2023 – 2024        **Rocketry Club**, Florida Institute of Technology  
Outreach Coordinator and Secretary

**Awards and Honors**

- 2025     Outstanding Student of the Year, Florida Tech Department of Mathematics and Systems Engineering
- 2025     Honorable Mention Poster, FL-MAA & FTYCMA 58th Joint Annual Meeting
- 2025     1st Place, FL-MAA & FTYCMA 58th Joint Annual Meeting Integration Contest
- 2024     Most Valuable Tutor, Florida Tech SSSC
- 2024     3rd Place, FL-MAA & FTYCMA 57th Joint Annual Meeting Integration Contest