

# HUGH W. DENNIN

## CIRRICULUM VITAE

**Email:** dennin.3@osu.edu

**Research Interests:** Algebraic Geometry, Combinatorics

## EDUCATION

### The Ohio State University

Ph.D. Student in Mathematics

**Fall 2022–Present**

### University of Florida

B.S. in Mathematics

Minor in Electrical Engineering

*Honors: cum laude, Phi Beta Kappa, University Honors Program*

**Fall 2018–Spring 2022**

**GPA 3.96 / 4.00**

## PAPERS

### Pattern bounds for principal specializations of $\beta$ -Grothendieck Polynomials

**June 2022**

arXiv preprint 2206.10017

## EXPERIENCE

### Student Geometric Group Theory Seminar – The Ohio State University

**November 2022**

- 50 minute talk titled *An Introduction to Reflection Systems and Coxeter Systems*

### Student Algebraic Geometry Seminar – The Ohio State University

**October 2022**

- 50 minute talk titled *Life Could be a Pipe Dream*

### OSU Algebraic Geometry Seminar – The Ohio State University

**September 2022**

- 1 hour talk titled *Pattern bounds for principal specializations of  $\beta$ -Grothendieck polynomials*

### Connecticut Summer School in Number Theory '22 – University of Connecticut

**April 2022**

- Week-long number theory summer school/conference hosted by UConn, Storrs

### Undergraduate Mathematics Research Symposium '22 – University of Florida

**April 2022**

- 15 minute talk titled *Principal specializations of Schubert polynomials for 1243-avoiding permutations*

### TA for Elementary Differential Equations – University of Florida

**Aug–Dec 2021**

- Paid university position
- Duties included proofreading, proctoring, and grading exams and answering student questions on discussion boards

### Undergraduate Research Scholar Program – Fundación Grupo Puntacana, DR

**May 2019**

- 10-day research-driven study abroad in the Punta Cana region of the Dominican Republic
- Evaluated the socioeconomic and ecological impacts of regional tourism development
- Mapped the infrastructure and waste systems of the 23 communities of Verón, identifying waste management challenges and opportunities
- Presented research findings to the Fundación's Center for Sustainability and community leaders

## TECHNICAL SKILLS

**Programming:** SageMath (Python), MATLAB, Java, C++, VHDL

**Typesetting:** L<sup>A</sup>T<sub>E</sub>X

## AWARDS / HONORS

Tibor Radó Fellowship Recipient

OSU University Fellowship Recipient

University of Florida Honors Program

University of Florida Undergraduate Research Scholars Program  
Named to the President's Honor Roll at UF (4 semesters)  
NSF National Merit Scholar