

# Hannah Anderson

PhD Student In Biomathematics At University Of Florida

 Gainesville, FL, 32611

 [www.linkedin.com/in/hannah-anderson-35498210b](https://www.linkedin.com/in/hannah-anderson-35498210b)

 hannahanderson@ufl.edu

Doctoral research focuses on mathematical modeling of Glioblastoma-immune dynamics. The ultimate goal is to optimize the treatment administration of a combination immunotherapy in order to improve patient survival outcomes.

## Education

2019-08 - 2024-05

### ● **Ph.D.: Mathematics**

*University of Florida - Gainesville, FL*

- GPA: 3.84/4.0
- Doctoral candidate

2016-08 - 2018-12

### ● **Bachelor of Science: Mathematics With A Minor in Chemistry**

*Palm Beach Atlantic University - West Palm Beach, FL*

- GPA: 3.96/4.0
- Study Abroad: Oxford University, England. Studied Elliptic Curves.
- The Mathematics Society: Member, 2016-2017; President, 2017-2018.

## Fellowships, Awards, and Honors

### ● *Graduate-level*

- Grinter Fellowship, Fall 2019 - Spring 2022
- TL1 Trainee, Fall 2020 - Summer 2022

### *Undergraduate-level*

- Outstanding Graduate of the School of Arts and Sciences, Fall 2018
- Member of the Frederick M. Suppers Honors Program
- James C. Baber Memorial Scholarship, Fall 2018
- Rachel McClintock Scholarship, Fall 2018
- Swick Mathematics Scholarship, 2017 – 2018 (awarded to one student per year)
- President's Scholarship, 2016 – 2018
- Trustees Honors Scholarship, 2016 – 2018
- Florida Academic Scholarship, 2016 – 2018
- President's or Provost's List every semester

## Work History

2020-08 - 2022-08

### ● **TL1 Trainee**

*University of Florida, Gainesville, FL*

2019-08 - 2020-05

- Selected to participate in collaborative research with a pharmacology lab under an NIH training grant.
- Implemented mathematical modelling techniques to improve understanding and treatment of Glioblastoma.

### ● **Teaching Assistant**

*University of Florida, Gainesville, FL*

- Led discussion sessions for Precalculus Algebra.
- Tutored undergraduate students in a variety of mathematics courses.

2018-05 - 2018-06

### ● **Summer Undergraduate Researcher**

*Palm Beach Atlantic University, West Palm, FL*

- Performed cytotoxicity tests on human breast cancer lines.
- Revised the extraction and isolation technique of a therapeutic plant compound, which enabled significantly greater compound retention.

2017-01 - 2017-12

### ● **Math Tutor**

*Palm Beach Atlantic University, West Palm, FL*

- Tutored undergraduate students in Statistics, Calculus, and College/Intermediate Algebra.



## **Conference Presentations**

- Association of Clinical and Translational Science, *virtual - March 2021* [poster]
- Society of Mathematical Biology, *virtual - June 2021* [poster]
- UF Health Cancer Center Research Symposium, *virtual - December 2021* [poster]
- Association of Clinical and Translational Science, *Chicago, IL – April 2022* [poster]
- Biology and Medicine through Mathematics, *Richmond, VA - May 2022* [poster]
- SIAM Life Sciences Conference, *Pittsburgh, PA – July 2022* [talk and organization of an immunotherapy minisymposium]



## **Publications**

- “The Effect of Myeloid-Derived Suppressor Cells on Glioblastoma-Immune Dynamics” (*in progress for publication in the Journal of Mathematical Biology*)



## **Skills**

- Data coding and processing
- Model development
- Predictive analysis
- Machine learning
- Multidisciplinary team collaboration