

# Tuyen Truong

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in tuyen-truong-181500214

## Goals

To pursue graduate studies in maths, potentially followed by a teaching career or a research-based profession in industry.

## Education

### University of Florida (UF)

August 2023 – May 2027

*BS in Mathematics, Statistics. Minor in Computer Science, Economics*

- GPA: /4.0
- **Relevant Coursework:** Abstract Algebra, Intro to Real Analysis I, Functions of A Complex Variable, Linear Algebra, Art of Problem Solving: Geoemtry, Calculus, Geometry, Counting, Probability

## Experience

### Teaching Assistant for STA2023

Gainesville, FL

*UF Department of Statistics*

Aug. 2024 - Present

- Instruct 2 weekly lab sections, each section consisting of 100 students
- Perform learning demos with Minitab software, Art of Stat Web Apps by facilitating hands-on lab exercises
- Grade weekly lab worksheets for 120 students
- Hold 3 hours of weekly tutoring hours for students

### Undergraduate Research Assistant

Gainesville, FL

*UF Department of Mathematics*

May 2024 – October 2024

- Research on multi-scale framework for integrating socio-economic processes, vector-borne disease control, and the impact of transient events on malaria (Supervised by Dr. Calistus Ngonghala, funded by NSF)
- Developed differential models, computed numerical solutions using Python and MATLAB, performed sensitivity analyses (local and global) to evaluate model robustness

### Math Circle Tutor

Gainesville, FL

*UF Department of Mathematics*

Aug. 2023 - Present

- Guide students from elementary to high school level on math enrichment concepts with an emphasis on discovery-based learning
- Create and facilitate activities for the students

### Engineering Intern

Orlando, FL

*University of Central Florida: Space Resource Technologies*

May. 2022 - August 2022

- Produced lunar and Martian regolith simulants for UCF and NASA research projects with the engineering team
- Recorded and modeled data on lunar plant growth
- Role entailed rock crushing, simulant production, packaging, and shipping products
- Assembled machinery per the engineering's team design plans using CAD software

## Works

### UF Math Circle Activity: Prisoner's Dilemma

February 2025

Activity intended for grades 4 and under,

[Prisoner's Dilemma Math Circle Activity PDF](#) [🔗](#)

### UF Math Circle Activity: Repeating Decimals

February 2025

Activity intended for grades 4-12.,

[https://maitiennn.github.io/repeatingdecimals%20\(1\).pdf](https://maitiennn.github.io/repeatingdecimals%20(1).pdf)

### **Predicting Olympic Medal Counts**

January 2025

Modeling Competition (MCM/ICM) 2025 Problem,

[https://maitiennn.github.io/MCM\\_2025.pdf](https://maitiennn.github.io/MCM_2025.pdf)

### **Modeling Positive/Negative Messaging**

October 2024

SIMIODE SCUDEM Modeling Competition Problem 2024,

<https://www.youtube.com/watch?si=YsQNJtUjSQzswS-m&v=eujgXLgpG80&feature=youtu.be>

### **Differential Modeling of Kangaroo Mother Care Treatment on Infant Mortality Rate**

May 2023

SIMIODE SCUDEM Modeling Competition Problem 2023,

[https://www.youtube.com/watch?v=1pIRvlfrlmU&list=PLHUyzRr\\_S0TuCuXD\\_QGT\\_h2QpuQHYNWzx&index=4&ab\\_channel=SIMIODE](https://www.youtube.com/watch?v=1pIRvlfrlmU&list=PLHUyzRr_S0TuCuXD_QGT_h2QpuQHYNWzx&index=4&ab_channel=SIMIODE)

### **History and Development of Complex Numbers**

May 2023

Mathematics Extended Essay for the International Baccalaureate Diploma,

[EE.2 PDF](#) [↗](#)

### **Exploration of the Painter's Paradox**

May 2023

Mathematics Internal Project for the International Baccalaureate Diploma,

[MathIA.1. PDF](#) [↗](#)

## **Awards/Honors**

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- Successful Designation in The 2024 International Mathematical Contest in Modeling (MCM)
- Outstanding Rank in 2023, 2024 SCUDEM International Differential Modeling Competition
- 3rd place Science Olympiad Bridge building competition
- Orange County Public Schools Super Scholar

## **Talks/Presentations**

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**UF Undergraduate Symposium 2024:** Presenting Solution for SIMIODE SCUDEM 2023 Competition on Modeling Kangaroo Mother Care on the Mortality of Infants

## **Technologies**

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**Languages:** R, Python, MATLAB, Java, HTML, Microsoft Office Specialist

**Technologies:** Latex, Wordpress, GitHub