

# Daniel Hodgins

PhD Student

<https://danielhodgins.github.io/> | [DanielHodgins](#) | [in daniel-hodgins-811b90270/](#)

## Education

### University of South Alabama

PhD, Mathematics

Mobile, AL

May 2029

### University of South Alabama

MS, Mathematics

Mobile, AL

May 2024

- Thesis Track
- GPA of 4.0

### University of South Alabama

BS, Mechanical Engineering and Mathematics

Mobile, AL

May 2023

- Concentration: Aerospace Engineering.
- GPA of 3.49

## Job Experience

### Graduate Assistant

Department of Mathematics and Statistics Auburn University

Auburn AL

August 2024 - present

- TA
- Tutoring
- Grader

### Graduate Assistant

Department of Math and Statistics University of South Alabama

Mobile, AL

August 2023 - May 2024

- Ran recitation section for two Calculus I classes
- Proctored exams and quizzes
- Created worksheets
- Tutored in the Math Lab

### College Assistant

Math Corps University of South Alabama

Mobile, AL

May 2023 - June 2023

### Tutor

University of South Alabama College of Engineering

Mobile, AL

August 2022 - December 2022

- Tutored Calculus based Physics, Calculus I, and Calculus II

## Grader

University of South Alabama College of Engineering

*Mobile, AL*

August 2021 - May 2022

- Graded homework and quiz assignments for thermodynamics

## Technical Skills

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**Programming** Python, CircuitPython

**Drawing & Typesetting** Tiled, Microsoft Office, Google files, L<sup>A</sup>T<sub>E</sub>X, Paint 3D, OBS Studio, Astah SysML, Zoom, LibreOffice

**Languages** English (Native)

## Projects

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### Remote Control Water Aircraft

Designed a low wing loading aquatic RC aircraft capable

*Mobile, AL*

January 2022 - April 2022

### Remote Control Luggage Aircraft

Design, Build, Fly Senior Design Team Project

*Mobile, AL*

August 2022 - April 2023

- Two sets of interchangeable wings
- Fits in a suitcase size box

### Morse Code Game

Circuit Playground Bluefruit Project

*Mobile, AL*

August 2021 - December 2021

- Runs circuit python
- Interactive teaching tool to learn Morse Code
- Difficulty changes with skill of user

### Eagle Scout Project

Bookshelf for a local elementary school and a drop off box for Ronald McDonald House Mobile, AL

*Semmes, AL & Mobile, AL*

2018

## Awards and Honors

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Spring 2023	<b>Scholarship/Contest:</b> "Chris Nash Special Award (Highest Score) "	<i>Mobile, AL</i>
Spring 2022	<b>Honor Society:</b> "TIME Math Honor Society"	<i>Mobile, AL</i>
Spring 2022	<b>Honor Society:</b> "Mortar Board Senior Honor Society"	<i>Mobile, AL</i>
Spring 2022	<b>Scholarship:</b> "Department of Mechanical Engineering Scholarship"	<i>Mobile, AL</i>
Spring 2022	<b>Scholarship/Contest:</b> "Chris Nash Scholarship (Second Highest Score) "	<i>Mobile, AL</i>
Spring 2022	<b>Scholarship:</b> "Department of Mathematics and Statistics"	<i>Mobile, AL</i>
Spring 2021	<b>Scholarship/Contest:</b> "Chris Nash Scholarship (Highest Score) "	<i>Mobile, AL</i>
Spring 2021	<b>Scholarship:</b> "Department of Mathematics and Statistics"	<i>Mobile, AL</i>
Spring 2018	<b>Award/Achievement:</b> "Eagle Scout"	<i>Mobile, AL</i>

## Volunteer Services

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## **Camp Make Arthritis Stop Hurting (MASH)**

Camp Counselor

- Camp MASH is a camp for kids with juvenile arthritis
- 2020 was cancelled due to pandemic

*Mobile, AL*

June 2018-2019, 2021-Present

## **Julia Robinson Math Festival (JRMF)**

Facilitator

*Online*

March 2021-Present

## **JRMF**

Online Space Creator

- Created and designed rooms for math festivals on Gather.Town
- Designed and implemented rook mazes, and designed other prototype mazes

*Online*

May 2021-December 2022

## **JRMF Community Math Circle**

Steering Committee Member

- Facilitate at Math Circles
- Plan Math Circles and training sessions

*Online*

January 2022-Present

## **Gaming Conventions**

Game Demo Volunteer and Convention Volunteer

- Mobicon
- Coastcon
- GnG Cons

*Gulf Coast*

2018-Present