

Daniel Hodgins

PhD Student

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

Education

Auburn University

PhD, Mathematics

Auburn, AL

May 2029

University of South Alabama

MS, Mathematics

- Thesis Track
- GPA of 4.0

Mobile, AL

May 2024

University of South Alabama

BS, Mechanical Engineering and Mathematics

- Concentration: Aerospace Engineering.
- GPA of 3.49

Mobile, AL

May 2023

Job Experience

Graduate Assistant

Department of Mathematics and Statistics Auburn University

- TA
- Tutoring
- Grader

Auburn AL

August 2024 - present

Graduate Assistant

Department of Math and Statistics University of South Alabama

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

Mobile, AL

August 2023 - May 2024

College Assistant

Math Corps University of South Alabama

Mobile, AL

May 2023 - June 2023

Tutor

University of South Alabama College of Engineering

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

Mobile, AL

August 2022 - December 2022

Grader

University of South Alabama College of Engineering

Mobile, AL

August 2021 - May 2022

- Graded homework and quiz assignments for thermodynamics

Technical Skills

Programming Python, CircuitPython

Drawing & Typesetting Tiled, Microsoft Office, Google files, L^AT_EX, Paint 3D, OBS Studio, Astah SysML, Zoom, LibreOffice

Languages English (Native)

Projects

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

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

Volunteer Services

Camp Make Arthritis Stop Hurting (MASH)

Camp Counselor

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

Julia Robinson Math Festival (JRMF)

Facilitator

JRMF

Online Space Creator

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

JRMF Community Math Circle

Steering Committee Member

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

Gaming Conventions

Game Demo Volunteer and Convention Volunteer

- Mobicon
- Coastcon
- GnG Cons

Mobile, AL

June 2018-2019, 2021-Present

Online

March 2021-Present

Online

May 2021-December 2022

Online

January 2022-Present

Gulf Coast

2018-Present