

# DANIELLE GRAY CARSON

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21702 ROLLINGWOOD TRAIL, EUSTIS, FL 32736  
407 810 6850  
[Carson@GrayCarson.com](mailto:Carson@GrayCarson.com)

## EDUCATION

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### **Bachelor of Science, MATHEMATICS**

2016-2020

*Stetson University, Deland, FL*

- GPA 3.67/4.00 cumulative GPA, cum laude
- [Started college at age 13 with a 4-year scholarship](#)

## TEACHING EXPERIENCE

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### **Math Tutor**

Aug 2018-  
Mar 2020

*Stetson University, Deland FL*

Assisted students in Calculus I, II, III, Statistics, ODE, PDE, Linear Algebra, and Logic and Proof

### **Workshop Instructor at Hackathon**

Apr 2019

**Topic:** *Blender: 3D Game Development*

Created and led a workshop on building and rigging 3D characters in Blender

## RESEARCH EXPERIENCE AND PRESENTATIONS

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### **Undergraduate Research Thesis**

Nov 2019-  
Mar 2020

**Topic:** *Interval Encryption*

**Advisors:** Dr. Eckroth, Dr. Vogel, Dr. Pulapaka

Unfortunately, my thesis was suspended due to the pandemic

### **Collaborative Research Experience (CREU)**

Spring 2017-  
Fall 2018

**Topic:** [Towards Detecting "Fake News" by Propagating Bias through a Network of Linked Assertions](#)

**Advisors:** Dr. Eckroth, Dr. Plante

Selected to participate in developing a program to fight "fake news." Worked with three classmates using big data analysis and page rank to calculate entailment between news articles and formed an assertion network to detect fake news. Won 2nd place at [ACM undergraduate](#) research competition for team research project at Grace Hopper.

## RESEARCH EXPERIENCE AND PRESENTATIONS (Cont'd)

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### **SIMIODE Challenge Using Differential Equation Modeling**

Nov 2019

**Topic:** [Movement Of An Object In Microgravity Environments](#)

**Advisor:** Dr. Miles

Worked in a team of three computing and presenting mathematical models necessary to land a probe on the smallest possible asteroid with varying conditions.

### **International Hackathon**

Apr 2017

**Topic:** *Planetary Position*

In less than 24 hours, I created and presented a MATLAB program that computed and mapped the 9 planets' and Sun's position depending on the user's year and date parameter. Won "First Time Hacker" Division at International [Hackathon](#)

## Volunteer Work

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### **Volunteer**

2019-2020

*Doug Bryant City Council Campaign*

- Designed and developed campaign web site
- Responsible for campaign site maintenance, editing, and search engine promotion
- Created campaign advertisement using Adobe Spark and Photoshop

### **Founder**

2015-2018

*Math Hatters*

Founded a math tutoring community outreach program in Deland, Florida

- Focused on empowering three groups of students underserved in math: low-income, girls, and the profoundly gifted
- Connected Stetson University students with elementary school-age students promoting critical thinking, problem-solving, research, and leadership
- Program was funded by winning Mission5000 grant

## HONORS AND AWARDS

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- Maizie C. Pepper Scholarship
- Estelle Harrelson Award
- Blanche O. Williams Scholarship
- Stetson Faculty Scholarship
- James & Eleanor Newton End Scholarship
- Dean's List (5 Semesters)
- Mission5000 Grant – Grant was awarded to fund a local math outreach program
- Won "First Time Hackers" Division at [International Hackathon](#)
- [Won 2nd place at ACM undergraduate research competition for team research project at Grace Hopper](#)
- ["Extraordinary Potential"](#) Honor by Lake Sumter Style Magazine

## PROFESSIONAL EXPERIENCE

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### Internship

#### Computer Systems Innovation

Advanced my C# skills by shadowing and researching while developing in-house software

Summer 2017

## SKILLS

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**Applications:** Blender, Adobe Creative Cloud (Photoshop, Premiere Pro, After Effects, Dreamweaver, Character Animator, Spark, Media Encoder), LaTeX

**Languages:** MATLAB, JAVA, Python

## MEMBERSHIPS

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### Davidson Institute Young Scholar

Organization for profoundly gifted students between the ages of 5 to 18 who score in the 99.9th percentile on IQ and achievement test

### Mensa

## EXTRACURRICULAR ACTIVITIES AND ORGANIZATIONS

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- **Vice-President**, *HackerSpace* – Stetson University
- **Social Media Coordinator**, *Math Club* – Stetson University
  - Taught numerous workshops on solving 3D combination puzzles
- *Russian Club* – Stetson University
- [12 Years of Classical Piano Training](#)