

# Grace Fei

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## EDUCATION

**The University of North Carolina at Chapel Hill**, Chapel Hill, NC  
**Bachelor of Arts (BA):** Computer Science and Studio Arts,

**GPA:** 3.925/4.0  
May 2027

**Northwest Guilford High School**, Greensboro, NC

**GPA:** 4.0/4.0, 4.733(weighted)

**Relevant courses:** Data Structures and Algorithms, Discrete Math, Calculus 1 and 2, Data Model and Inference, Intro to Programming

**Technical Skills:** Python (NumPy, Pandas, PyTorch), Java, SAS (SAS Base Programming, SAS Advance Programming certificate), Fusion360, Blender, Unity, LabView, Adobe Photoshop + Illustrator

## WORK EXPERIENCES

**UNC Department of Physics and Astronomy**

**Chapel Hill, NC**

*System Integration Engineer Intern*

2023-Present

- Programmed with Python (NumPy) and LabVIEW to integrate synchronized high-throughput Optical Coherence Tomography (OCT) imaging system with APT motor software
- User inputs 2 wells in a well plate, program generates coordinates taking into account rotational shifting in each well and completely automates the scanning process

**UNC Department of Computer Science**

**Chapel Hill, NC**

*Research assistant*

2023-Present

- Using Blender and Python (PyTorch) to generate concept figures for joint visual and acoustic processing in AR/VR scenarios

**UNC The Office of Institutional Research**

**Greensboro, NC**

*Data Analyst Internship*

Summer 2022

- Worked on writing SAS code to generate PDF/excel sheets on various reports: student summaries and analytic reports of the enrollment in online programs

**The3DMachine**

**Greensboro, NC**

*Founder, and Owner*

2020-Present

- I founded this business to combine my passion for STEM and art by using 3D modeling software Fusion360, 3D printing, and painting. I am proud to have 1000+ sales and an average 5-star review. Additionally, my products can be found in stores at NerdBombers.
- Using the funds from the business, I organized an annual 3D jewelry design camp with 40+ students across the US, empowering young women in the field of STEM.

## LEADERSHIP EXPERIENCES

**UNC AR/VR**

**Chapel Hill, NC**

*Development team Design Lead*

2023- Present

- Using Blender and Unity to lead 3-5 development team members through storyline development, UI/UX design, and 3D asset creation
- Organize AR/VR technology events with Exec board, impacting 150+ students

**ECG Robotics Club**

**Greensboro, NC**

*Outreach Lead*

2018-2023

- I led 5 separate robotics teams with 70+ students. I focused on planning outreach events that target underrepresented minority groups like High Point Public Library Stem Classes or General Green Elementary Demo. I have planned 20+ events focusing on Java programming and engineering and have reached over 1,200 students.
- Our team has made it to the State Championship for the past 4 years.