

# REBECCA GEORGE

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## EDUCATION:

**William and Mary** - BS, Computer Science and CAMS Mathematical Biology, scheduled 2026

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## EXPERIENCE:

### William and Mary

Undergraduate Research Assistant

Williamsburg, VA

June 2025 - Present

- Wrote C++ scripts to benchmark solve times of GPU-accelerated vs. CPU-only versions of sparse linear solvers
- Used PBS to submit bash scripts automating fio, ior, and mdtest tests to benchmark DAOS bandwidth on Argonne National Lab's Aurora supercomputer
- Visualized results with Matplotlib/Seaborn/Pandas in Python

### Jefferson Lab

Student Technical Intern

Newport News, VA

September 2024 - Present

- Installed and troubleshot Mac, Windows, and RedHat Linux operating systems, file backups, and software
- Communicated effectively with users and team members in fast-paced environment, managing many tasks at once
- Managed accounts and authentication methods for over 1,600 users and 960 staff
- Wrote and synthesized documentation, improving efficiency, accuracy, and user-friendliness
- Maintained PowerShell scripts automating procedures, and developed a small python utility for users
- Aided in hardware movement and data tape organization in data center and tape library

### William and Mary

Undergraduate Research Assistant

Williamsburg, VA

August 2023 - May 2024

- Worked on a data-driven milkweed population model (integral projection model) integrating real genetic identities
- Selected generalized linear mixed-effect models for flowering and seed pod production using R
- Created interactive plotly dashboard to explore clonal reproduction characteristics of milkweed using Python
- Prepared milkweed samples for genetic analysis

### FIRST Robotics Team 2881

Robotics Instructor

Austin, TX

July 2018 - August 2024

- Led annual STEM/robotics camps for elementary age Girl Scouts, coordinating volunteer teams and operations
  - Developed lesson plans and taught programming and mechanical design with LEGO robots
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## SKILLS:

- Programming: R, Python, C/C++, Bash, Powershell, HTML/JS/CSS, Java
  - Misc Software: Linux, Git, PBS on HPC, Markdown, LaTeX, G Suite, Microsoft Office, ServiceNow
  - Languages: English (fluent), German (conversational), Mandarin Chinese (elementary)
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## PROJECTS:

### Comparison and Recreation of Mycelial Growth Models

- Reviewed literature on hyphal growth and recreated differential equation models with direct numerical methods

### Decision Tree and Neural Network Models to Recognize Disruptive Fusion Data

- Using a dataset of fusion characteristic measurements, created models classifying fusion as disruptive or not
- Compared diagnostics and feature importances for decision tree, random forest, and XGBoost models
- Trained multi-layer perceptrons and bayesian neural networks and compared results