

JOBY MILO ANTHONY III

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SUMMARY

- Interdisciplinary engineer with skills and experience with computational simulations and numerical analysis
- Led simulation analysis group for Liberty Motorsports electric Formula SAE vehicle
- Deep understanding of physical problem simulation and analysis
- Self-motivated, problem-solving and collaborative engineer with a passion for excellent results
- Looking to develop controlling functions from mathematic models of complex problems

TECHNICAL SKILLS

- **CAD Modeling:** SolidWorks, SheetWorks, SolidWorks VBA
- **Finite Element Analysis (FEA):** ANSYS Workbench, ANSYS Mechanical APDL, MATLAB
- **Computational Fluid Dynamics (CFD):** ANSYS Fluent
- **Numerical Modeling:** Differential equations, proofs, bond graphs, thermodynamics
- **Programming Languages:** Julia, \LaTeX , MATLAB, Python, and VBA
- **Molecular biology:** Cloning, PCR, RT/qPCR, Transfection, mini prep, AAV, Retroviral transduction, CRISPR
- **Genomics:** RNA library construction for high throughput sequencing
- **Computational:** Programming languages (R, Python and Shell script)

RESEARCH EXPERIENCE

Liberty University

Undergraduate Researcher

August 2019 to present

- Executed >2,000 hours of CFD for analyzing behavior of $\text{mathscr{M}}$ -number
- Responsible for collecting and writing on results
- This project led to the submission of 1 journal publication

Liberty University

Capstone Leader

August 2019 to May 2020

- Executed >2,000 hours of CFD for analyzing behavior of $\text{mathscr{M}}$ -number
- Responsible for collecting and writing on results
- This project led to the submission of 1 journal publication

EDUCATION

- PhD, Engineering, Liberty University, Expected 2024
- BS, Mechanical Engineering (Mathematics), Liberty University, 2020

TEACHING AND MENTORING EXPERIENCE

- 2014 - Mentored 2 undergraduates in their day-to-day lab activities
- 2012 - Graduate Teaching Assistant for Immunology

AWARDS

- Graduate Scholarship
- F32: NIH Postdoctoral Training Grant

CONFERENCE PRESENTATIONS

Take the top 3-4

- Keystone Conference for Neurodegenerative Diseases:

PUBLICATIONS

Take the top 5-6, bold your author position

OTHER SKILLS

Software GraphPad Prism, Microsoft Word, Excel, and PowerPoint, ImageJ

Languages English: professional proficiency. Mandarin: native. German: conversational.