

SIMIODE EXPO

Our Experience: Since SCUDEM, Internship, Coach

SCUDEM

Intern

Coaches

Students

Anthony Stefan

Florida Institute of
Technology

Since SCUDEM II

- Presentation at JMM '19
- Developed our work into a Publication (twice!)
- Featured a video on the SIMIODE Website
- Curating a Network for new opportunities (Professors, internship, LOR)

Bernie
Tyson

Zach
Fralish

Major: Chemistry

Since Graduation: Mentored students for one year at his high school alma mater, Regis high school, Manhattan, New York City.

Currently: Analyst for Collage Partners, a biotech venture placement firm and CEO/Founder at StefanTyson Enterprise LLC, a startup for patenting innovative technologies.

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What was your favorite part about the SCUDEM experience?

"They give you a problem to solve with a fixed amount of time and you pick your team to solve it. This connecting of the dots between points caused me to realize how much I enjoyed exploring new problems and topics, and how I want to generate solutions to modern day science. SCUDEM helped me realize you can connect those dots anyway you want to."

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How did SCUDEM prepare you for what you do now?

SCUDEM:

- Problem Released
- Generate a model
- Have a justification to your thought process and why your model is accurate.
- Presentation, put together and write up explaining your model to an audience possibly not familiar with your chosen problem.

Job interview process :

- Given data and provided information on a biotech company.
- Generate my presentation.
- Evaluate if this is a good investment or not and compare them to other companies.
- Present this company and the complex science in layman terms to the founding partner.

Deliver of presentation was the same, time frame was the same, ect. SCUDEM helped me know how to structure the time and what to do approach and work toward giving my jobs presentation.

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Fralish

Major: Biochem/Molecular Biology

Currently: Now at Duke University for Biomedical Engineering Ph.D program doing lab research on tissue engineering for skeletal muscle and developing the disease model for limb girdle muscle dystrophy.

What was your favorite part about the SCUDEM experience?
I really enjoyed the group aspect of SCUDEM, it gives you a chance to work on mathematics with students outside of your department, or your friends you might have not had a chance to work with because they are other majors.

How did SCUDEM prepare you for what you do now?
Learning how to collaborate with others through the SCUDEM process was a helpful experience. Furthermore, the project models a more realistic experience toward higher level education and research experiences one might have outside of the classroom.

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Summer 2020 Internship

- Improvement to SIMIODEs web page structure. Coach vs. Student
- Tagging the resources for SIMIODE website, transfer to HUBZero Community at QUBESHub
- LaTeX Overleaf Resource and Modeling Guide for Students & Coaches.
- Student feedback for Kurt Bryan's New SIMIODE online text, Differential Equation: A Tool for Modeling the World

Funded by SGCI

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SCUDEM Fall 2019 vs. Fall 2020

Coached 2 teams in Fall 2019
-in person

Coached 4 teams in Spring 2020
-online


Coaching
Resources

SIMIODE Website
• 1100+ Resources

Modeling Guide

- <https://www.simiode.org/resources/7978>

Response to Problems



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Resources for Students!

- Coaches resources mentioned
- YouTube! -SIMIODE Channel
- Student Resources on the SIMIODE website!

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