URA Summer Research Panel

Agenda

01
Overview

What types of summer research are there?

02
Opportunities

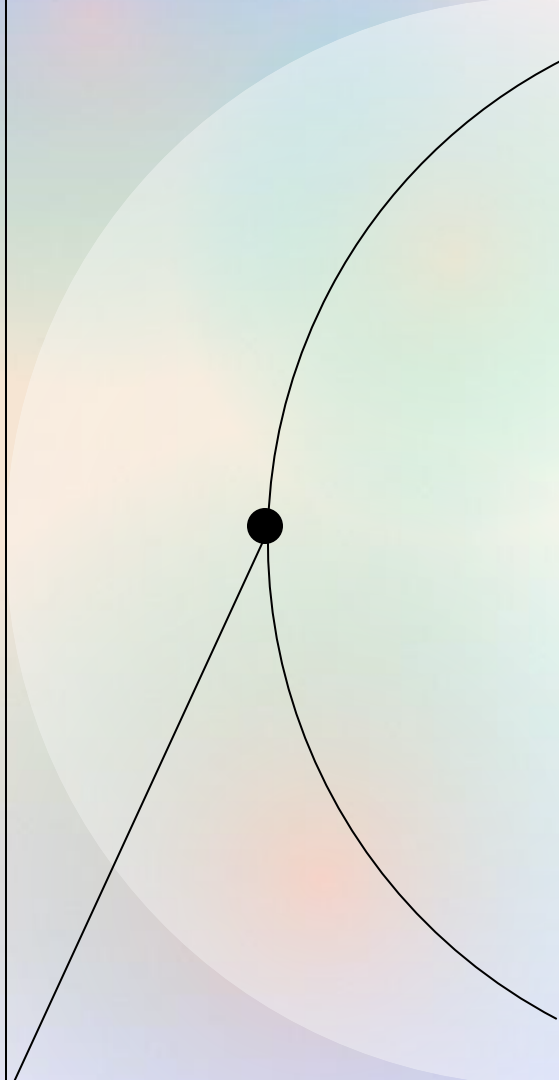
Where are summer research positions found?

03
Panel

Hear firsthand from students' experiences

04
Small Groups

Receive focused answers to your questions



01 Overview

Why Should You Do a Summer Research Experience?

New Experience

Get a Feeling for Real Academia

Professional Development

Lots of Formats

02 Opportunities

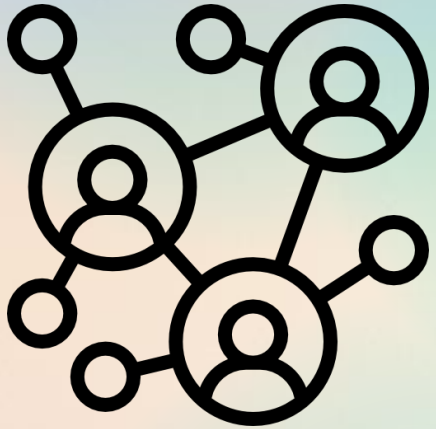
Finding Programs to Apply To

Industry

International and Domestic REUs

PURA

03 Panel



Anisha Kanukolanu

Major: Neuroscience

Concentration: BMED & HMED w/ Research Option

Year: 3rd Year

About: Interested in pursing an MD/PhD in Neuroscience. Currently involved in aging and spatial navigation research in the Neural Plasticity Research Lab

President's Undergraduate Research Award

- Application process
  - 2 page research project proposal
  - Letter of recommendation from PI
- Great opportunity to continue your current lab involvement

- By being there for longer extensions of time you get the read feel of the lab experience.

Haaris Jilani

Major: Biomedical Engineering

Concentration: Research

Year: 3rd year

About: Interested in pursuing a Ph.D. in biomedical engineering. Currently involved in stem cell and biomaterial work in the Temenoff Lab.

International Research

- Great opportunity to learn about research environments in other countries
- Expands your professional network
- Exposes you to new cultures

- To apply: should write a personal statement detailing your research history (or interests), career goals, and why you want to work internationally

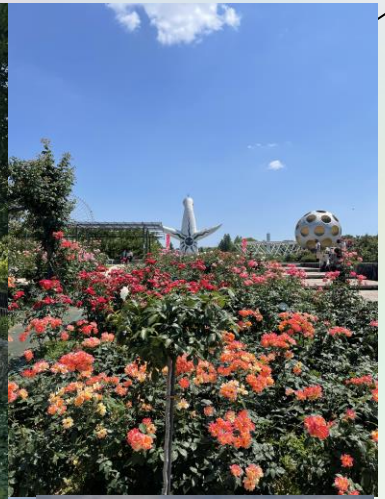
AMGEN® Scholars Program

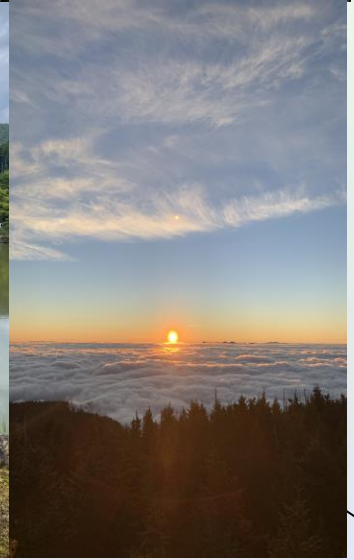
NAKATANI
Foundation
公益財団法人 中谷医工計測技術振興財団

Nakatani Program

- Only for BMEs
- Requires 3 short essay prompts: research experience, career goals, lab interest
- Late May – end of July
- My experience: 10/10
- Got to learn more about Japanese language and culture
- Made friends with Japanese university students and other exchange students
- Made international connections in my field
- My project: enhancing protein transportation within animal cells to improve production processes for therapeutic antibodies





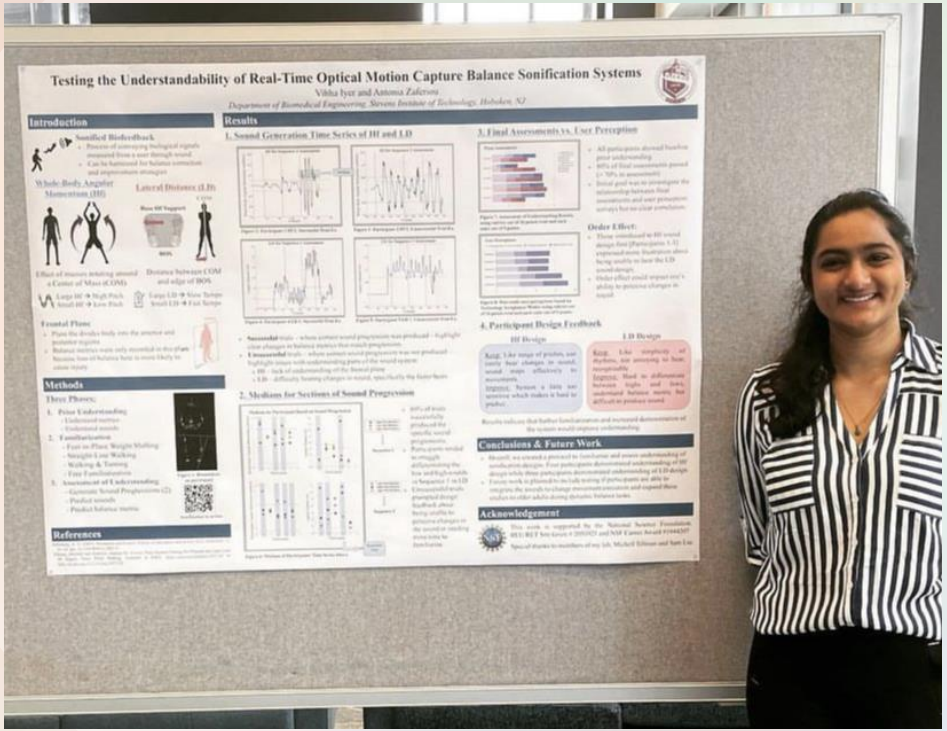
Vibha Iyer

Major: Biomedical Engineering

Minor: Robotics

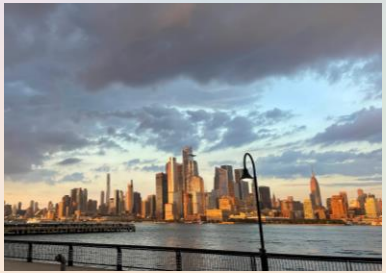
Year: 2nd Year

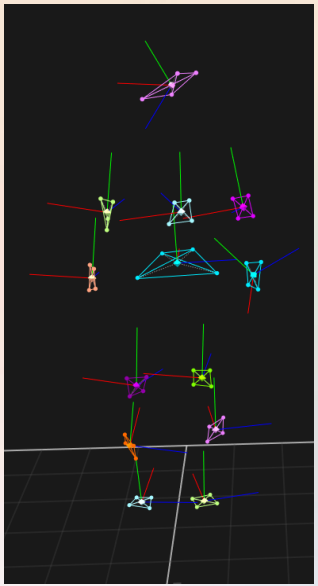
About: Interested in working in medical robotics. Currently researching at the Exoskeleton and Prosthetics Intelligent Controls (EPIC) Lab at Tech.

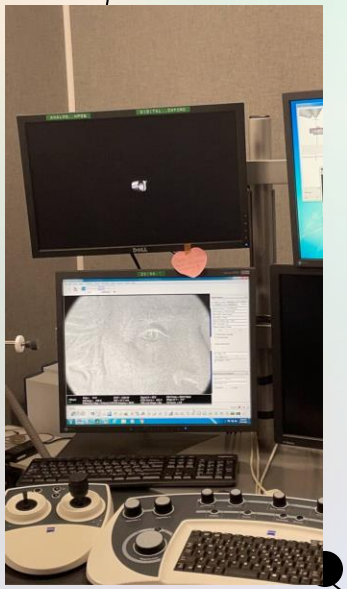


REU Experience

- Travel somewhere new (and get paid a full stipend along with it)!
- Develop skills that are perfect for graduate school and professional development.
- Attend conferences, meet undergrads from different schools – make tons of academic connections
- My project: translating human motion into sound (biofeedback sonification) to improve human balance







Venny Kojouharov

Major: Mechanical Engineering

Concentration: Robotics w/ CS minor

Year: 3rd Year

About: Interested in pursuing a Ph.D. in bio-inspired robotics. Actively involved in research at Georgia Tech and Harvard University.

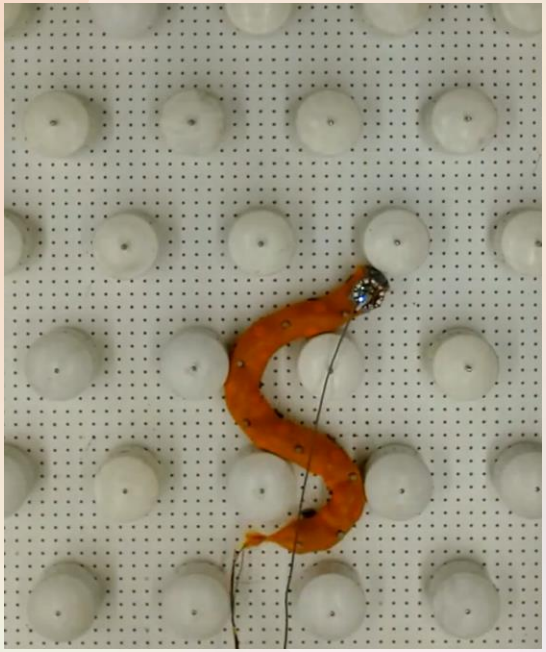
Georgia Tech

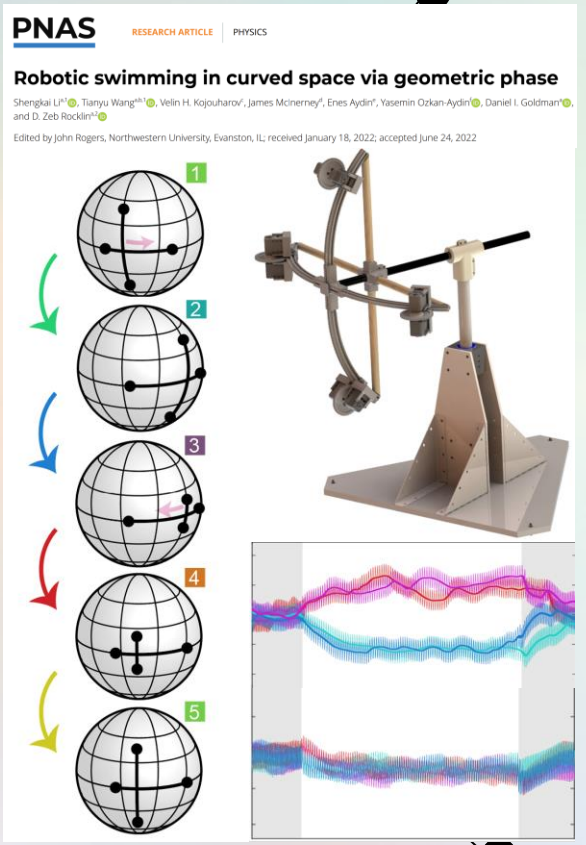
CRAB Lab

Complex Rheology And Biomechanics

Supported by PURA for Summer 2021 and for Fall 2022.

Research at Georgia Tech allowed me to establish a position in a lab, work towards publications, and become very close to PI for future research opportunities





Application Due February 24, 2023

REU @ Harvard

Experience:

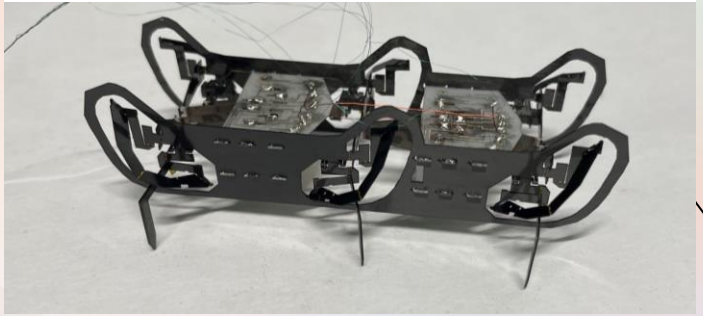
- $6000 stipend & living expenses covered
- Research in a SEAS lab
- Workshops for graduate school
- Mentorship from PhD/Post-doc mentors
- Contribution towards conferences/papers

Online Application:

- Personal Statement
- 2 Letter of Recommendation

Harvard John A. Paulson School of Engineering and Applied Sciences

Harvard Microrobotics Laboratory



Application Due February 1, 2023

Future Plans: International Research

Experience:
- $5400 for living expenses
- Research in any field, any Swiss university
- Mentorship from PhD/Post-doc mentors
- Contribution towards conferences/papers
- International experience

Online Application:
- Personal Statement, Project Proposal
- 2 Letter of Recommendation

+hink swiss
Brainstorm the future.

ETH zürich

Application Due December 31, 2024

Taylor Hampson

Major: Aerospace Engineering

Year: 3rd

About: Interested in innovating spacecraft propulsion. Involved with electric and nuclear-thermal propulsion research for Georgia Tech and NASA

NASA Internship: Nuclear Thermal Propulsion

- Research **in** industry
- 12-week part-time internship
- $17/hr stipend for 20 hrs/week
- Engineering of new concept + public sector = research + publications
- Learned skills relevant to private sector: heat transfer modeling and design
- Consider fall/spring opportunities!

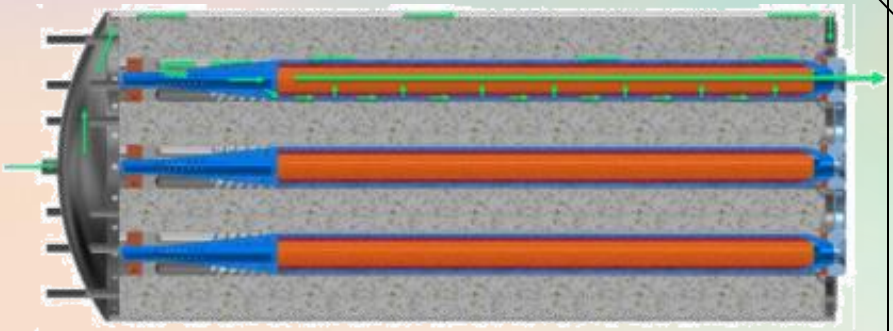
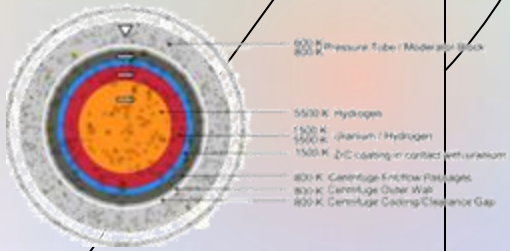
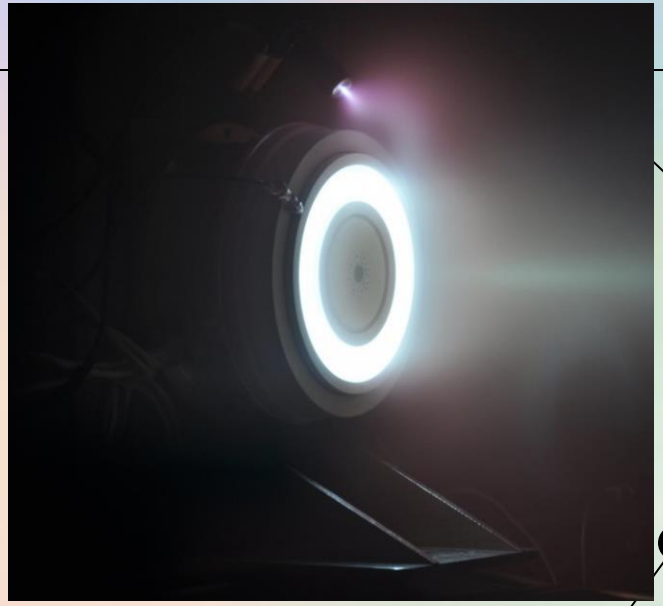


Fig. 3. Propellant Flow Path in the CNTR



Georgia Tech: Electric Propulsion

- Assisted in test operations for electric propulsion devices in vacuum test facilities
  → very hands-on
- PURA: researching the applicability of lattice confinement nuclear fusion to electric propulsion (more theory/modeling)
- Summer: more likely to be paid & learn valuable engineering skills



Georgia Tech High-Power Electric Propulsion Lab
Daniel Guggenheim School of Aerospace Engineering

04

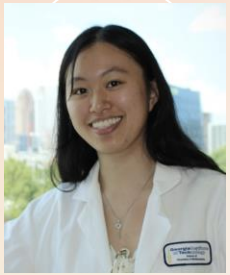
Small Groups

More Experiences (working on it)

Laila Hayes

Experience
MIT Summer Research Program

Ivy Zhang



Experience
Pathology Dynamics Lab at Georgia Tech

Marybeth Yonk

Experience
Neurorestoration Gene Therapy Lab at Emory

Julia Vallier

Experience
Sana Biotech Internship
University of Kansas REU

If you are interested in learning more...

- Sign up for office hours ->

Thank you!