

NSF - REU Research Experiences for Undergraduates

Queensborough Community College

Summer 2022

For Community College Students Only

Research Areas:

Physics (Acoustics, Spectroscopy) Astronomy, Astrophysics Biophysics

10 Week Program (May 31 – August 5)
4-5 days/week
\$6000 stipend
Travel and Lunch Stipend

Extension to the Academic year 1 day/week \$100/day plus travel Fully in person

Last Summer's Research Students



RECENT SUMMER PROJECTS

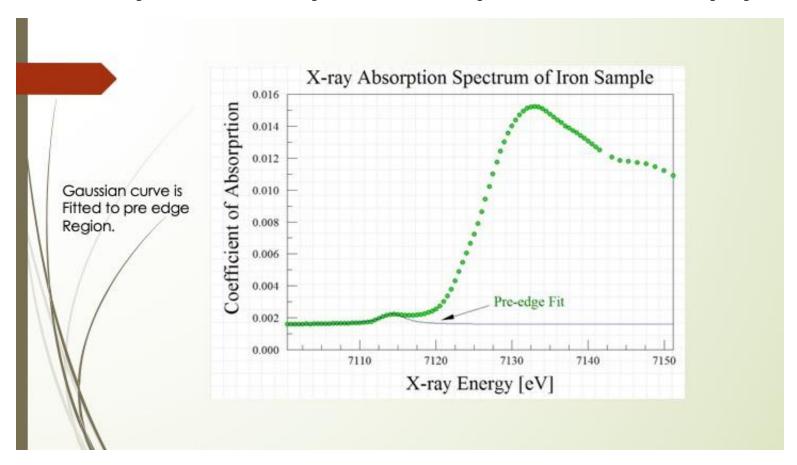
What kind of Projects can you expect if you join us?

Wandering Black Holes in Dwarf Galaxies



Katti Chafla and Donovan Vincent / Mentor: Jillian Bellovary

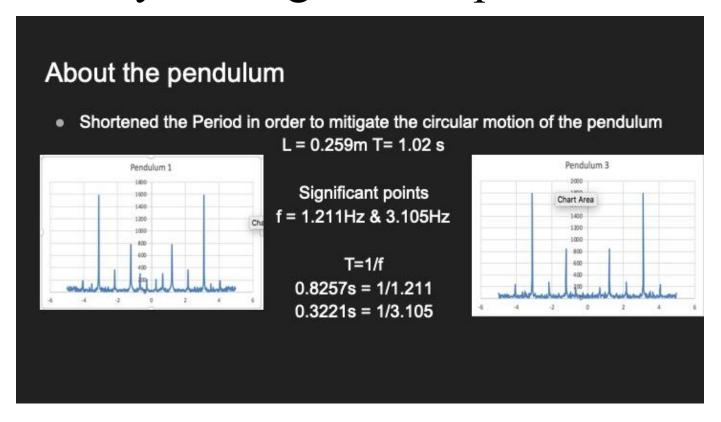
X-ray Absorption Spectroscopy



Nadia Dob / Mentor: Sunil Dehipawala

Exoplanet Transit

A Journey Through the Neptunian Desert



Noel Castillo / Mentors: George Tremberger, Tak Cheung

Sonic Boom Propagation



SUPERSONIC FLIGHT TODAY

- Since 1973, sonic boom noise has been banned.
- Some concerns of supersonic flight is the interaction of sonic booms with structures.
- Currently, NASA is working on the Lockheed Martin X-59 QueSST (Quiet SuperSonic Technology) as part of the Low-Boom Flight Demonstrator program.
- The aim of the is tehcnology is to lower the loudness of the sonic boom and make it as loud as a car door closing.

Cosmic Ray Detection





Nkeiru Ubadike and Austin DeMurley / Mentor: Raul Armendariz

How to Apply



Requirements

- Full time student
- US Citizen or Permanent Resident

- Application online form (FormStack)
 http://www.qcc.cuny.edu/physics/reu.html
- Brief Essay why you want to participate
- Letter of Recommendation
- Official Transcript

Essay and unofficial transcript can be upload with the application. Letters of Recommendation should be emailed to REU@qcc.cuny.edu or can be sent via us mail

Mail official transcripts to:
Dr. Kimberly Riegel
Queensborough Community College
Physics Dept, Science Building Rm 339
222-05 56th Ave
Oakland Gardens, NY 11364-1497

Or if your college uses electronic transcript delivery, they should be sent to; kriegel@qcc.cuny.edu