

JOSHUA LABOUNTY

36 Kennedy Ave. ♦ Plattsburgh, NY. ♦ 12901.

(518) 572-1049 ♦ joshua.labounty@gmail.com ♦ joshua.labounty@stonybrook.edu ♦ github: jlabounty

EDUCATION

Stony Brook University — Stony Brook, NY.
B.S. Physics with Honors; Minor: Astronomy
Member: Honors College

Fall 2013 - Present
Cumulative GPA: 3.81

Plattsburgh High School — Plattsburgh, NY.
Advanced Regents Diploma with Honors

Grad Date: 2013

TECHNICAL STRENGTHS

Computer Languages
Software & Tools

C/C++, FORTRAN, Python
ROOT, Geant4, PYTHIA, HTML, LaTeX, Excel, Mathematica, git

RESEARCH

Stony Brook University
Undergraduate Research

Summer 2014 - Present

- Designed an Electromagnetic Calorimeter for implementation at BNL in scheduled EIC upgrade under Dr. Abhay Deshpande and Dr. Nils Feege. Currently using this detector simulation to search for Leptoquark production in electron-proton collisions.
- Aided in the design and testing of a magnetic field cloaking device for use in the proposed EIC.
- Traveled to Argonne National Lab and Brookhaven National Lab to perform measurement of prototype cloak.

SUNY Plattsburgh
High School Research

Summer 2012 - Fall 2013

- Studied the plasmonic behaviour of Nickel-Iron thin films under Dr. Ken Podolak.
- Presented this work at the 108th NYS APS Topical Symposium: Recent Advances in Physics

PRESENTATIONS

2016 URECA Symposium

Poster: Identification of Leptoquark Events in Simulated Electron-Proton Collisions”
Poster: Optimizing a Magnetic Cloak for Use in High Energy Particle Accelerators

April 2016

Brookhaven National Lab Research Day

Poster: Simulating Potential Measurements for a Planned Electron Ion Collider Experiment

April 2016

2015 URECA Symposium

Poster: Simulating Potential Measurements for a Planned Electron Ion Collider Experiment

April 2015

108th NYS APS Topical Symposium: Recent Advances in Physics

Poster: Surface Plasmon Energy of Nickel Iron Films

April 2013

WORK EXPERIENCE

Plattsburgh YMCA
After School Program Counselor

01/2013 - Present

- Supervised children ages 3-12 after school. Implemented various programs designed to help children to learn and have fun in a safe environment.

Plattsburgh YMCA
Swim Instructor

01/2010 - Present

- Instructed children ages 6 months to 13 years in the mechanics of swimming from basic skills to pre-competitive levels.

ADDITIONAL EXPERIENCE

Toscanini + Sanger + Chavez Hall Councils
Treasurer

2014 - Present

- Budgeted and disbursed funds for the various programs throughout the year. Coordinated with event managers to have proper materials purchased on time. Planned and hosted events including Condom Casino Night, which educated attendees on safe sexual practices.

CVPH Medical Center
AV Volunteer

2011 - 2013

- Created video presentations for potential donors illustrating the various public outreach programs in the hospital. Assisted with organizing and executing annual fundraising events.

REFERENCES

ABHAY DESHPANDE
Professor — Stony Brook University
abhay.deshpande@stonybrook.edu

EDEN FIGUEROA
Professor — Stony Brook University
eden.figueroa@stonybrook.edu

ALAN CALDER
Professor — Stony Brook University
alan.calder@stonybrook.edu