Ian Hunt-Isaak

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# Education

B.A. in Physics, Oberlin College, Expected May 2017

GPA: 3.88 in major, 3.76 overall

Stanford University Coursera Machine Learning course

verifiable at https://www.coursera.org/account/accomplishments/certificate/CC7QFHVB78DN

# Work

National Institute of Standards and Technology Summer 2016

Summer Undergraduate Research Fellow

* Worked to develop an X-Ray and Neutron scattering calculator for protein simulations
* Wrote high performance numerical code
* Contributed general improvements to SASSIE and SASmol projects

Rutgers University – Relativistic Heavy Ion Group Summer 2015

REU student

* Studied the Quark Gluon Plasma through Monte Carlo Simulation
* Improved a framework to run Monte Carlo Simulations - github.com/ianhi/GeneratorInterface
* Investigated the 3/2 Jet Ratio in Lead (Pb) Ion collisions with C++ using the ROOT framework
* Presented results at APS Division of Nuclear Physics Annual Meeting, Sante Fe NM, Oct. 29, 2015

Oberlin College – Ijiri Physics Lab Jan. 2015 - Present

Research Student

* Investigate magnetic structure of Manganese Ferrite Nanoparticles via neutron Scattering
* Extended the NIST SANS macros enabling faster analysis
* Wrote python code for systematic fitting of data

# Experience

Oberlin College 3D Printing Sept. 2015 - Present

Treasurer and Director + ExCo Instructor

* Manage $4,000 budget
* Teach an ExCo (Taken for credit by Oberlin College students) designed to introduce people to the space and tools. Taught Fall and Spring 2016, as well as Fall 2017.

Tutoring Fall 2014 - Present

Via Oberlin College and Independently

* Subjects include Single and Multivariate calculus, Intro Economics, IB Math, IB Physics

# Skills

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| * Python, Java, Processing, C++ * Machine Learning * Data visualization | * Git, SVN * Linux/Unix systems |