

# Ian Hunt-Isaak

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## EDUCATION

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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

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**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](https://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

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**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

