

Jackson T. Henry

Rochester Institute of Technology Undergraduate
Physics Major, Mathematics Minor

Contact Information:

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Digital
Resume

Education:

- ❖ Rochester Institute of Technology (RIT) class of 2016
- ❖ Amherst Regional High School (ARHS) class of 2012

include GPA 3.08

Research Experiences:

- ❖ RIT Center for Computational Relativity and Gravitation (CCRG) fall 2013 - present
 - Worked, under Dr. Whelan, creating and modifying python scripts to calculate and visualize the detection radius of all the Laser Interferometer Gravitational Observatory (LIGO) detectors.
 - Future work will include creating a combined probability detection map for all LIGO telescopes and overlaying it on a map of the visible universe.

~~Upcoming presentation at Imagine RIT~~

- ❖ UMass Amherst LIGO group, summer 2012
 - Updated LIGO summary pages (web pages that display live primary and secondary data channels).
 - Began to set up summary pages on LIGO Hanford server.
 - Fixed real time plotting on summary pages.

❖ UMass Amherst LIGO group, 2011

- Worked for Dr. Cadonati, under her graduate student Dr. Mohopatra, on a visual aid of the r-mode oscillations of a neutron star for use in presentations.

~~Employment~~

~~❖ RIT CCRG, research assistant (see research experience)~~

~~❖ UMass LIGO group research assistant (see research experience)~~

- ❖ Freelance web developer/designer — Built webpages on modern standards and streamlined existing webpages to take advantage of new technologies, summer 2013

John Relavin to exp.

- ❖ Consultant for the Concord Consortium — Explored and reported on inaccuracies in the [Next Generation Molecular Workbench](#) physics simulation, using Python, summer 2012.

Computational Skills:

- ❖ Languages
 - Extensive experience with Python (Numpy, Scipy, Matplotlib, Mlab, SymPy)
 - Extensive experience with JavaScript (D3.js, JQuery), CSS3, HTML5
 - Mathematica
 - Basic MATLAB and numerical simulation techniques
 - LaTeX
 - Arduino
 - Some experience with the bash shell
- ❖ Operating Systems
 - Ubuntu
 - OSX
 - Windows
- ❖ Programs
 - Basic VIM
 - Sublime Text 2

Independent investigations:

- ❖ Created online interactive data visualizations for various datasets (e.g. [sea level since 1860](#), [average age of the global population](#)) *include will*
- ❖ Designed in-browser physics simulations ([earth gravity](#), [2d spring](#))
- ❖ [Python programs](#) for various scientific tasks (Discrete Fourier transform, Graphing Calculator, spherical Harmonic visualization, kinematics solver)

Leadership Positions:

- ❖ ~~Founder and leader of ARHS swing dance club; 2011-2012~~

Probably unnecessary

Professional Organization Memberships:

2012-current: LIGO Scientific Collaboration (LSC)
 2012-current: Society of Physics Students (SPS)
 2013-current: RIT CCRG
 2013-current: STARS astronomy group
~~Summer 2013: UMass Amherst Physics Department~~

APS

*include imagine RIT stuff (ut-totum)
 date and year*