

PATRICK HALKETT

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University of Chicago Physics and Statistics graduate seeking entry-level opportunity to apply problem solving and data analysis techniques to innovative and sustainable technology.

EDUCATION

University of Chicago, Chicago, IL Sept. 2014 – June 2018

- B.A. Physics, Specialization in Astrophysics, Statistics Minor
- Physics coursework included: Quantum Mechanics, Modern Physics, Experimental Physics, Intermediate Mechanics/Electricity and Magnetism, Optics, Waves, Heat, Physics of Stars and Stellar Systems, Physics of Galaxies and the Universe, Statistical/Thermal Physics, Spacetime and Black Holes (GR), Nonlinear Dynamics and Chaos
- Statistics coursework included: Statistical Models/Methods, Applied Regression Analysis, Analysis of Categorical Data, Statistical Theory/Methods, Linear Models/Experimental Design

Harvard-Westlake School, Studio City, CA Sept. 2010 – June 2014

- **AP Scholar with Distinction**
 - AP Scores of 5: Biology, Calculus, Statistics
- **National Chinese Honor Society**
 - Awarded for proficiency in written and spoken Chinese language
- **Wrestling** – Varsity wrestler all four years
 - **Captain**, Varsity Wrestling (2013 – 2014)

WORK EXPERIENCE

Tutor/Test Preparation Sept. 2018 – Present

A+ Test Prep & Tutoring, Philadelphia PA

- Math/Science Tutor and SAT/ACT Test preparation for schools and families

Substitute Teacher, William Penn Charter School Jan. 2019 – Present

- Biology, Chemistry, Physics, Environmental Science, Mathematics (algebra – calculus)

RESEARCH EXPERIENCE

University of California, Los Angeles, Los Angeles, CA June – Aug. 2017

Undergraduate Research

- Conducted research on ultra-faint dwarf galaxies and combed through galactic databases to catalog available candidates for closer observation (HERON Project)

Washington University in St. Louis, St. Louis, MO June – Aug. 2016

Undergraduate Research

- Conducted research on gravitational microlensing statistics under guidance of professor Henric Krawczynski by expanding an inverse ray shooting code he originally developed
- Wrote a report that was featured in the University of Chicago's undergraduate research magazine, *Scientia*

LEADERSHIP AND SERVICE

MRSEC After-School Science Club (University of Chicago)

- Volunteered 40+ hours at the Murray Language Academy teaching elementary and middle school children basic science experiments and phenomena

Ryerson Astronomical Society (University of Chicago)

- Delivered presentation to members regarding gravitational lensing which included research findings from WashU in 2016

ADDITIONAL SKILLS

- Python, SQL, R, LaTeX, MATLAB, GitHub, Excel, PowerPoint, Windows & Mac OS