Eric Gentry
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Education

University of California, Santa Cruz 2014 — June 2019
PhD Candidate; Astronomy & Astrophysics with an Emphasis in Statistics
MS; Astronomy & Astrophysics (*GPA:* 4.0/4.0)

Selected coursework: Time Series Analysis (Winter 2017), Bayesian Statistical Modeling (Spring 2016), Machine Learning (Fall 2015), High Performance Computing (Spring 2015)

Massachusetts Institute of Technology 2010 — 2014
BS; Physics (*GPA:* 4.9/5.0)

Work Experience

LendUp (consumer lending startup) Summer 2017
Data Science Intern
- Predicted risk of credit card applicants using statistical modeling (Python, SQL)
- Engineered new features to extract insights from previously unused data
- Performed exploratory data analysis to support new product development
- Identified and created ETL solutions for the unmet needs of other teams

UCSC Astronomy & Astrophysics 2014 — 2019
Graduate Student Researcher
- Building image classifier using Deep Neural Networks and Random Forests to identify dwarf galaxies (Python, keras) 2017
- Published Bayesian statistical analysis of supernova simulations 2016
- Created interactive visualizations for complex datasets (Python) 2016
- Developed distributed software for simulating supernovae (C/C++) 2015

Philmont Scout Ranch Summer 2014
Program Counselor; Assistant Manager
- Developed and ran astronomy education program for 100 participants each night
- Managed team of 5 employees for 25% of the time

MIT Kavli Institute for Astrophysics 2013 — 2014
Undergraduate Researcher
- Discovered and published faint signals of a galactic jet in noisy imaging data (Python)

Universität Heidelberg – Institute of Environmental Physics Summer 2012
Visiting Research Fellow
- Extended and optimized data pipeline to detect trace atmospheric gases

MIT Plasma Science and Fusion Center 2011 — 2012
Undergraduate Researcher
- Created software for X-ray data collection, calibration and modeling

Tools

Python, SQL, C++/C, R, keras, scikit-learn

Selected Awards

NSF Graduate Research Fellow 2016 — 2019
- $138,000 award supporting my PhD research; 2,000 fellows selected from 17,000 applicants

Osterbrock Prize Leadership Fellow (UC Santa Cruz) 2015 — 2019
- $5,000 award with continued mentoring to develop leadership skills in technical positions