Adam Sutherland

Astrophysicist

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Technical Skills

Overview

Programming

Intro → Expert

Python • Mathematica • pandas

Fortran • LaTeX • SQL

C • Julia • IDL

Skills

- Time Series Analysis
- Large Data Sets
- High Performance Computing
- Data Visualization: interactive plots, matplotlib, Bokeh, Plot.ly
- Quantitative Analysis
- Numerical & Analytical Mathematics
- Problem Solving
- Collaborative Coding: github
- Independent Work
- Simplifying High Level Concepts

Experience

May 2020 - Present — **Data Analyst** — Homie

- Combine, clean, and analyze data from a variety of sources to provide visualizations and insights to stakeholders across multiple lines of business including Real Estate, Loans, Title, and Insurance for a rapidly expanding company.
- Assist in streamlining customer acquisition and experience by tracking customer journey and analyzing effectiveness of marketing campaigns.
- Work closely with Data Architect and Engineers to verify data within data warehouse.

Aug 2016 - Jan 2020 — **Graduate Research Assistant** — University of Arizona

- Ran computationally intensive numerical simulations in `C` and analyzed large data-sets with `Python` and `pandas`.
- Compared numerical results to self created modified analytic theory of mean motion resonances for planets around binary stars.

May 2015 - June 2016 — **Senior Honors Thesis Research Asst.** University of Chicago

- Aided in the development of the MAROON-X high precision radial velocity spectrograph, an instrument for discovering planets around other stars.

Oct 2013 - Apr 2015 — **Undergraduate Research Assistant** — University of Chicago

- Ran extensive numerical simulations of circumbinary planets on high performance computers in `Fortran` and analyzed the results in `IDL`.
- Results were featured in AAS NOVA and SPACE.COM.

Education

Master of Science: Astronomy & Astrophysics
University of Arizona
2016 - 2018 | Tucson, AZ

Bachelor of Arts: Physics w/ Honors, Geophysical Sciences
Specialization: Astrophysics
University of Chicago
2012 - 2016 | Chicago, IL

Dean's List: First, Second, Third, and Fourth Year
General Honors with Bachelor's Degree

Impact

- 4 publications with a combined 41 citations
- Quantopian Open Top 100 Trading Algorithms: Contests 10 & 11
- Research featured in 2 popular science articles
- 4 conferences attended: 1 talk and 3 posters

See www.suth.space/portfolio/ for a research project example.