

Adam Sutherland

Astrophysicist



suth.space



adam@suth.space



/in/adam-sutherland

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 serve visualizations and insights to stakeholders across multiple lines of business; Real Estate, Loans, Title, Insurance, and others for a rapidly expanding company.
- Analyze effectiveness of marketing campaigns and the relation to customer journey to streamline customer acquisition and experience.
- 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.