

Jake R. Hanson

SENIOR DATA SCIENTIST · ASTROPHYSICS PHD

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Overview

As a trained physicist, I bring a unique perspective to data science. My academic background includes a PhD in astrophysics, as well as a triple-major in astronomy, physics, and applied mathematics. This has equipped me with a deep understanding of applied mathematics, including machine learning and image processing algorithms as well as advanced probability theory and statistics. Moreover, I possess over 10 years of programming experience, with expertise in Python and proficiency in C++. Currently, I serve as a senior data scientist for a financial services company based out of Salt Lake City, Utah. In this role, I leverage customer data to create targeted experiences using machine learning models in order to optimize online conversion. I specialize in learning new skills quickly and communicating ideas effectively to both technical and non-technical audiences.

Experience

Senior Data Scientist

Salt Lake City, Remote

PROGREXION

Dec. 2021 - Current

- Design and deliver long-term analytics and machine learning projects finding answers to business problems, implementing solutions, and tracking downstream effectiveness.
- Communicate results, generate reports, and offer recommendations to company leadership
- Carry out ad-hoc data extracts and analyses as needed.
- Mentor more junior data scientists and analysts.

Astrophysics PhD

Phoenix, AZ

ARIZONA STATE UNIVERSITY

Aug 2015 - May 2021

- Completed two years of theoretical coursework with a 3.85 GPA, followed by three years of independent study.
- Specialized in complex systems science, including non-linear dynamics, information theory, and network science.
- Published nine papers, including three first-author papers, in peer-reviewed journals on technical topics ranging from exoplanets to entomology and cognitive science.
- Honed my programming and communication ability.

Education

PhD, Arizona State University

Tempe, Arizona

SCHOOL OF EARTH AND SPACE EXPLORATION

Aug. 2015 - May 2021

- PhD Astrophysics · GPA 3.85

University of Arizona

Tucson, Arizona

COLLEGE OF SCIENCE

Aug. 2011 - May. 2015

- B.S. Applied Mathematics · GPA 3.8
- B.S. Physics · GPA 3.4
- B.S. Astronomy · GPA 3.6

View Selected Projects: <https://jakehanson.github.io>