Reece Boston, Ph.D.

astrophysicist

data scientist

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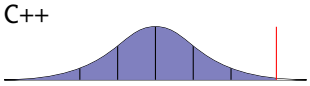
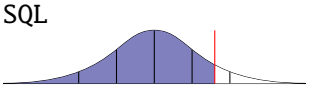
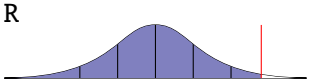
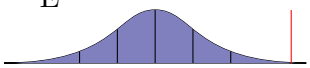
Ph.D., Physics University of North Carolina, 2022

M.S., Physics University of Georgia, 2015

B.S., Mathematics and Physics Georgia College, 2010

Technology Summary

- C++ 
- SQL 
- Bayesian MCMC 
- R 
- python 
- LaTeX 

Work Experience

Data Scientist at Community, Sept 2021 - Present

Projects: causal inference best time-of-day; SMS topic tagging; market archetyping.
Responsibilities: analyze data for insights as product features; transform data for storage in lakehouse; manage platform NLP services for SMS analysis.
Technology: python [pandas, numpy, sklearn, spaCy NLP]; Snowflake SQL; Docker; AWS.

Research Codes

GRPulse: High-precision asteroseismology code for Newtonian and relativistic stellar models.

Thrain: Astrophysics code to create simple white dwarf stars.

Research Experience

Research Assistant at University of North Carolina, Fall 2016 - Spring 2022

Advisor: Charles R. Evans
Topic: white dwarf asteroseismology in classical and general relativistic settings.

Published Work

- Boston, S. Reece, *Newtonian and Relativistic White Dwarf Asteroseismology*, Ph.D. dissertation, UNC, (2022).
- Boston, S. Reece, C. R. Evans and J. C. Clemens, "The Limits of Newtonian White Dwarf Asteroseismology." Astrophysical Journal, (2022) [Awaiting Submission].
- de Souza, Rafael, S. Reece Boston, Alain Coc, and Christian Iliadis, "Thermonuclear fusion rates for tritium+deuterium using Bayesian methods." Physical Review C, (2018).
- Boston, S. Reece, "Time Travel in Transformation Optics." Physical Review D, (2015).