Reece Boston, Ph.D.

astrophysicist

data scientist

tel: 770.355.0261
email: reece@thebostons.us
github: rboston628
linkedin: reece-boston

Ph.D., Physics University of North Carolina, 2022
Thesis: Newtonian and Relativistic White Dwarf Asteroseismology

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

Published Work

- Boston, S. Reece, J. C. Clemens and C. R. Evans, "A Natural Classification Scheme for Hot ZZ Ceti Stars" Astrophysical Journal, (2022) [In Draft].
- Boston, S. Reece, C. R. Evans and J. C. Clemens, "Parametric White Dwarf Models for Asteroseismolog" Astrophysical Journal, (2022) [In Draft].
- 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).