Reece Boston

astrophysicist

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

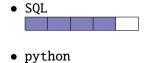
Thesis: Relativistic Pulsations and Tidal Excitations of White Dwarfs

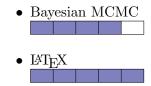
M.S., Physics University of Georgia, 2015

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

Technology Summary







Work Experience

Data Scientist at Community, Sept 2021 - Present

Technology: python [pandas, numpy, sklearn]; 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

• University of North Carolina, Fall 2016 - Present

Research Advisor: Charles R. Evans

Topic: white dwarf asteroseismology in classical and general relativistic settings.

Published Work

- Boston, S. Reece, J. C. Clemens, "Classification of DAVs by Helium Layer Mass." Astrophysical Journal, (2021) [In Draft].
- Boston, S. Reece, Bart H. Dunlap, and J. C. Clemens, "The Limits of Newtonian White Dwarf Asteroseismology." Astrophysical Journal, (2021) [Awaiting Submission].
- de Souza, Rafael, <u>S. Reece Boston</u>, 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).

