







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

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|--|---|--|
| • C++
 | • SQL
 | • Bayesian MCMC
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| • R
 | • python
 | • L ^A T _E X
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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).