



Reece Boston, Ph.D.

astrophysicist 

data scientist 

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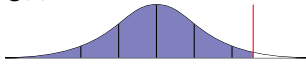
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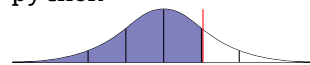
• C++



• R



• python



• Misc.: SQL, Java, Objective-C, bash, fortran 77, HTML, GNU/Unix, x86 assembler.

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## Work Experience

**R&D Data Scientist** at [Community](#), Sept 2021 - Present

Projects: causal inference for engagement; SMS topic tagging; market archotyping.

Responsibilities: analyze big data for product insights; work on team with data engineering to transform data for lakehouse; manage platform NLP services for SMS analysis.

Technology: python [pandas, numpy, sklearn, spaCy]; github; Snowflake SQL; Docker; AWS.

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

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

Responsibilities: created original research code in C++ within Unix environment using GNU tools; designed class hierarchy and architecture for program.

Technology: C++ [gcc, stdlib, MPI multithreading]; gnuplot; bash scripting; github; fortran.

**Physics Instructor** at University of North Carolina, Summer 2019, 2020

Course: Physics for Life Sciences [phys 115]

Responsibilities: provided physics instruction to non-experts in life sciences; recorded many of [the online lectures](#) for COVID-19 response (Lec 7-10,14,26-27)

## Research Codes

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

**Thrain**: Astrophysics code to create simple white dwarf stars.

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## Research Publications

- Boston, S. Reece, *Newtonian and Relativistic White Dwarf Asteroeismology*, [Ph.D. dissertation](#), UNC, (2022).
  - Boston, S. Reece, C. R. Evans and J. C. Clemens, “The limits of Newtonian white dwarf asteroeismology.” *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).
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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

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