

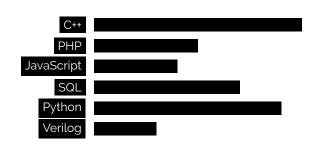
# Data Analyst

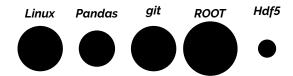




### WHO AM I?

Particle physics PhD student at the University of Texas at Austin. Data analyst/software developer for the ALICE experiment at CERN. Current work involves writing C++/python to test detector hardware for 2020 LHC upgrade, but my research involves analyzing proton-lead collision data to extract relevant QCD parameters. Mostly interested in back-end development/algorithmic programming, but capable of generating user-friendly front-ends.





## **EXPERIENCE**

2017 – 4/2019 **Data Analyst** 

ALICE at CERN

Use ALICE's version of ROOT (AliROOT) to analyze LHC collision data. Most of analysis is handled on a set of super computers scattered about Europe, then merged to a local file for offline analysis. My analysis involves strange quark 2-D angular correlations.

C++ / ROOT / Python

2015 – 2018 **Softwa** 

**Software Developer** 

ALICE at CERN

Contributed to software developed by ALICE for testing various readout equipment for detector upgrade. Mostly command-line based, but there was a QT GUI.

C++ / QT / Python / Git

2018 - 2019 part time Web Designer

**UT Austin** 

Wrote the skeleton of a web database used to store testing information for readout equipment being built for ALICE ITS upgrade.

HTML / PHP / JS / mySQL

#### **EDUCATION**

2017 - 2022 **Doctorate Degree** 

University of Texas at Austin

Currently in 2nd year of PhD program. Working towards a PhD in Relativistic Heavy Ion Physics/Nuclear Physics. Recipient of Graduate Provost's Excellence Fellowship, valued at over \$240,000. Current completed courses include General Relativity, QFT, Physics of Sensors and all core courses.

2012 - 2017

Bachelor's Degree

University of Houston

Received BS in both Physics and Mathematics at the University of Houston. Graduated Magna Cum Laude, and was #1 in the Physics Department. Advanced physics courses included Astrophysics, Quantum Field Theory, Devices and Sensors. Advanced math courses included Advanced Linear Algebra, Advanced Partial Differential Equations, Numerical Analysis.

## LEADERSHIP

**HOBBIES** 

## **FUN FACTS**

Teaching Assistant 2018-2019, UT Physics Lecturer 2017, UH Math Facilitator 2016-2017, UH Physics Facilitator 2014-2017, UH I love playing piano, running, playing games (mainly CS:GO), coding, and I'm a huge fan of math puzzles or riddles. I also enjoy learning new things about Vim, the greatest text editor.

I currently play for the UT Varsity CS:GO team and am the only graduate physics student in the entire league. I also have synesthesia, so I hear colors.