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Web & Git
jacksonbradford.com
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Languages
Python - HTML - CSS - \LaTeX -
jQuery - SQL - Visual Basic -
some C++ - some Ruby

Python Packages
Numpy - Tensorflow (Keras
framework) - Matplotlib - Pandas
- SKLearn - Seaborn - HDBSCAN

Web Development Tools
Jekyll - Bootstrap - AWS - Github
Pages

Command Interface Tools
CMD - Git - Bash - IRAF - DS9

Computation Tools
Mathematica - Gnuplot

OS Experience
Windows ★★★★★
MacOS ★★★★★
GNU/Linux ★★★★★

Other Tools
Microsoft Office - Quickbooks

Awards
UTSA Dean's List
↳ Fall 2014
UTSA President's List
↳ Spring 2014

JacksonBradford

Education

- 08/15 - 05/18 **BS Physics, BS Astronomy** University of Texas at Austin
Main subjects: Astronomy, Physics and Mathematics.
Courses taken granted practical experience in observational astronomy, scientific writing, physics laboratory experimentation methodology, instrumentation design/manufacture, and various applicable programming languages—in addition to academic education in the previously mentioned primary subjects.
- 08/14 - 05/15 **Transfer** University of Texas at San Antonio
Attended UTSA for freshman year under the Coordinated Admissions Program.
Used this time to account for necessary core class credits.
Transferred to UT Austin with a 3.98 GPA.
- 08/10 - 06/14 **Diploma** Liberal Arts and Science Academy HS
The Liberal Arts and Science Academy is currently ranked #3 public high school in the United States according to USNews.
Graduated with a 3.56 GPA, a 2240 SAT score, and 7 AP classes taken (five 4's and two 5's).

Experience

- 01/18 - present **Research Engineer / Scientist Assistant** University of Texas at Austin
Research assistant for computational astrophysics project:
 - Primary goal is siamese NN capable of reproducing approximate six-dimensional (3 position, 3 velocity) particle-based galactic dark matter halo simulations from a randomly-seeded 2-dimensional (action & angle) input dataset.
 - Assisted in development of siamese autoencoder network model
 - Wrote script using HDBSCAN to cluster simulation datasets in six dimensions
- 06/16 - 08/17 **Assistant Bookkeeper** RealmBuild, Inc., Austin, TX
Assistant bookkeeper for construction general contractor:
 - Performed data entry and reconciliations in Quickbooks
 - Performed data entry and analysis in Excel
 - Performed digital and physical filing & document digitization
 - Was responsible for weekly payment of federal income taxes & social security
 - Wrote script in visual basic to download and sort worksite images from company email server through Microsoft Outlook automatically
 - Prepared spreadsheets of subcontractor expenses and compiled binder for annual general liability audit

Extracurriculars

- 08/15 - Present **Astronomy Students Association** University of Texas at Austin
member
- 08/15 - Present **Society of Physics Students** University of Texas at Austin
member