Jeremy Quijano

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Summary

BS in Physics. I recently left my Astrophysics graduate program to pursue opportunities in Data Science, Machine Learning, and Python Development. My research focus was applying Machine Learning to Astrophysics and novel problems. I have 6 years of Python and 5 years of Machine Learning experience in a research environment from undergraduate and graduate work. I have 3 years of Data Science experience from research and Data Science fellowships. Several of my projects can be found on my GitHub. Contact me via phone or email for more information.

Skills

Programming
- *Python 3, Jupyter Notebook/Lab, Anaconda, PyCharm, Google Colab, GitHub, C++, VS Code*

Data Science
- *Machine Learning, TensorFlow, Keras, PyTorch, Deep Learning, SciKit-Learn, NumPy, Pandas, SciPy*

Data Visualization/Presentation
- *Matplotlib, Seaborn, Plotly, Microsoft Excel/Powerpoint, Google Sheets/Slides, Apple Numbers/Keynote*

General Computing
- *MacOS, Windows 10/11, PC Hardware, Word Processors: Microsoft Word/Google Docs/LaTeX (Overleaf)*

Education

University of South Alabama (USA) — **August 2024 – Present**
- *Computer Science Graduate Student* — *GPA: N/A*

The University of Alabama (UA) — **August 2020 – May 2023**
- *Some Graduate Coursework in Astrophysics* — *GPA: 2.5*

University of California, Riverside (UCR) — **September 2017 – June 2019**
- *Bachelor of Science in Physics* — *GPA: 3.5*

Crafton Hills College (CHC) — **August 2014 – May 2017**
- *General Coursework and Transfer Credit* — *GPA: 3.9*

Experience

Youth Esports Coach | Vanta Esports — **February 2024 – Present**
- *Youth development coach for Rocket League – Part Time*

Athletics Tutor | The University of Alabama — **January 2024 – July 2024**
- *Math and Science tutor at the Bill Battle Academic Center – Part Time*

Graduate Researcher | The University of Alabama — **June 2021 – June 2023**
- *Research under Assistant Professor, Dr. Sergei Gleyzer*
- Dark matter substructure analysis using strong gravitational lenses and machine learning

Graduate Teaching Assistant | The University of Alabama — **August 2020 – May 2021**
- *Instructor for Introduction to Astronomy Lab*

Undergraduate Researcher | University of California, Riverside — **September 2018 – June 2019**
- *Research under Associate Professor, Dr. George Becker – Unpaid*
- Research experience and senior thesis project

Achievements / Awards

UA | LSSTC Data Science Fellowship **October 2021 – July 2023**
- *LSSTC Data Science Fellow sponsored by Northwestern University*

UA | Southern Regional Education Board Fellowship **August 2021 – June 2023**
- *SREB State Doctoral Scholars Program member*
- Provides support for minorities pursuing PhD's and continuing in academia

CHC/UCR | Dean's List Honoree **August 2014 – June 2019**
- *Achieving a GPA of 3.5 or higher during a semester/quarter*

CHC | 2017 Southern California Edison STEM Scholarship recipient **June 2017**
- *Received for achieving academic excellence and continued pursuit of a STEM degree*

Projects

LSSTC Data Science Fellowship **October 2022 – July 2023**
- *Data Science projects to learn data science techniques for Astronomers*

Technology/Tools: Python, Jupyter Notebooks, Anaconda, Big Data, Data Science, GitHub

UA | BINGO Probability Program **August 2022 – December 2022**
- *Probability and analysis program for Data Analysis course in Fall 2022*

Technology/Tools: Python, Jupyter Notebooks, Anaconda, Data Science, GitHub

UA | Strong Gravitational Lens Finding Project **June 2021 – June 2023**
- *Automated process for finding strong gravitational lenses using machine learning*

Technology/Tools: Python, Google Colab, Jupyter Notebooks, PyCharm, TensorFlow, PyTorch, PyLensing, PyAutoLens

UCR | Senior Thesis: Quasar Spectra Analysis Using Machine Learning **April 2019 – June 2019**
- *A machine learning algorithm to classify three different simulated quasar spectra*

Technology/Tools: Python, Jupyter Notebooks, TensorFlow, SAOImageDS9, GitHub

UCR | 2D Spectral Analysis and Sigma Clipping **September 2018 – April 2019**
- *Testing new FITS image reduction pipeline created by Dr. George Becker*

Technology/Tools: IDL, Python, Jupyter Notebooks, SAOImageDS9, ESO X-Shooter data, GitHub

Extracurriculars

U13+ Youth Recreational Soccer Coach **March 2024 – May 2024**
- *Tuscaloosa United Soccer Club*

UA | Google Summer of Code Mentor **June 2022 – August 2022**
- *Machine Learning mentor for UA DeepLense Project*

UA | Esports Club Member **August 2020 – June 2022**
- *Rocket League player and coach for university team*

UCR | Esports Club Member **September 2017 – June 2020**
- *Rocket League player and coach for university team*

CHC | Physics Club Member **August 2016 – May 2017**
- *Local STEM outreach*