

Pamela Nguyen

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EDUCATION

University of Texas, Austin

Expected Graduation: December 2022

Bachelor of Science in Computational Physics and Mathematics

Certificate in Scientific Computation & Data Sciences and Elements of Computing

Relevant Coursework: Numerical Methods II, Matrices, Electronic Techniques, Scientific Programming, Elements of Data Analytics and Databases, Mathematical Statistics, A Practical Introduction to Research

EXPERIENCE

UT Austin: Molecular Biosciences

January 2019 – Present

Undergraduate Research Assistant under Professor Elif Sarinay Cenik

Austin, TX

- Analyze and model *Caenorhabditis elegans* genomic data (RNA-seq, variant detection) using statistical methods and next-generation sequencing (NGS) platforms.
- Generate and execute computational pipelines using Python, Bash, and R for parsing, visualization, statistical analysis, and other processing of data generated by NGS workflows.

Apple

March 2020 – Jan 2021

Technical Advisor

Austin, TX

- Knowledgeable in operating and troubleshooting iOS and MacOS devices while remaining up-to-date with the latest technologies and solutions applicable to company products.
- Consistently exudes professionalism and maintained privacy when handling customer information while sustaining standard average handle time and customer satisfaction.

UT Austin: White Dwarf Stars Research

June 2019 – Aug 2019

Undergraduate Researcher under Professor Mike Montgomery

Austin, TX

- Implemented and created Jupyter Notebooks using Python and libraries such as *NumPy*, *Scipy*, etc. to analyse and simulate white dwarf stars data. Such tasks included the creation and calibration of dark and flat frames to calculate aperture photometry.
- Obtained flat and dark data from the *McDonald Observatory* with given possible white dwarf star coordinates. Acquired over 4+ days' worth of data.

Portia Talley Law

June 2018 – Jan 2019

Internship

Killeen, TX

- Prepared, researched and catalogued attorney documents for family law, mediation, and small business cases. Aided and archived 10 cases during the duration of the internship.
- Additional tasks include scheduled client consultations and answering calls regarding attorney prices and bundles. Experience with legal billing services such as *Lawpay* and *CaseFox*

ABOUT ME

Technical Skills: Proficient in C++, Java, Python: *NumPy*, *pandas*, *scikit-learn*, *matplotlib*, *PyTorch*, *SymPy*, *SciPy*; Jupyter Notebooks, Bash/Unix/Linux, MATLAB, R, \LaTeX ;

Familiar with Google Cloud Platform, SQL, Postgres, BigQuery, NoSQL

Languages: French (A1 CEFR), English (Native), Vietnamese (Social)

Interests: Photography, Law: Intellectual Property & Business, Data Analysis, Machine Learning

PROJECTS

Raspberry Pi Retro Gaming Console: Constructed a customizable portable handheld gaming console using an over-discharge protection circuit, *Game Boy* housing shell, and Raspberry Pi Zero W installed and set up with *Recalbox*.