

PABLO MANUEL REBOREDO-SEGOVIA

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EDUCATION

The University of Tennessee, Knoxville: Bachelor of Science in Mathematics May 2023

- *Coursework:* Multivariable Calculus, Partial Differential Equations, Abstract Algebra, Matrix Algebra, Real Analysis, Probability and Statistics, Numerical Algorithms, Models in Biology
- *Tools:* MATLAB, Mathematica, Maple software, Vim, LaTeX, Linux Shell, Python, & Excel.

EXPERIENCE

Independent Private Tutor/Consultant: May 2021 - present

- Tutoring on subjects from Geometry to Abstract Algebra for students aged 14-50.

Tutor Doctor: Private Tutor Nov 2019 - May 2021

- Tutoring on subjects ranging from Geometry to Linear Algebra for students aged 15-30.

Oak Ridge National Laboratory, Research Intern: Summer 2014

- Analyzed reading/writing behavior of Lustre supercomputer file system through writing automated scripts written in Sh to plot reading/writing behavior.
- Acquired on the job skills, including secure shell login procedures, parallel programming in C++, & communicating mathematical information.

LEADERSHIP/PROJECTS

Python Developer, Github Projects Aug 2014 – May 2024

- Created user interface construction library from scratch with programmable buttons and labels.
- Scripted commandline application for flashcard memorization.
- Wrote script to generate image textures for 4d models.

Project-Based Web Development October 2022 - May 2023

- Developed websites from scratch using HTML, CSS, and Javascript
- Created experimental program to filter images through restricted color palette by distance in Hue, Saturation, and Value
- Developed mountain graphic generator using midpoint displacement algorithm

Undergraduate Researcher, Department of Biological Sciences May 2017 – July 2017

- Studied movement behavior of *Caenorhabditis elegans* (*C. elegans*) using Python.
- Read professional academic publications on applications of artificial intelligence & neural networks to study *C. elegans* navigation decision making patterns.

Political Liason, College Democrats May 2016 - May 2017

- Built and maintained relationships with government officials and their staff and conducted research and analyzed data to inform and conduct campaign canvassing and phone banking efforts

Vice President, Vols for Bernie Jan 2015 - May 2016

- Assisted president with developing targets, strategies, and tactics to achieve goals of coordinating support for candidate. Mobilized members and organized events to get involved in canvassing and phone banking

President, Oak Ridge Computer Science Club Aug 2012 - May 2014

- Studied Python computer programming and prepared technical slides for instructing up to ten students and created 2d classical physics simulations using the pygame library