Jordan Wells

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EDUCATION

Bachelor of Science, Chemical Engineering, August 2019 – May 2023
Biotechnology and Materials Science Tracks, Elements of Computer Science Certificate
The University of Texas at Austin
Overall GPA: **4.00/4.00** Major GPA: **4.00/4.00**

Relevant Coursework: Materials Physics, Elements of Software Design, Data Visualization, Data Analytics, Intro to Software Engineering

EXPERIENCE

VI Next Intern, Regeneron Pharmaceuticals, June 2022 – August 2022

Undergraduate Research Assistant, Ellington and Alper Labs, University of Texas at Austin, November 2019 – Present
- Design antibody-SARS-CoV-2 interfaces computationally with Rosetta and deep learning methods to determine potentially beneficial mutations.
- Model protein structures to be inputs to a self-supervised 3D Convolutional Neural Network to produce meaningful information on mutational potential
- Write protocols to convert Neural Network output into orderable, highly efficient side-directed and site-saturated mutation primers for protein engineering
- Transformed and tested over 50 libraries, each containing 1000s of Neural Network-derived mutations
- Communicate with experimentalists to model and engineer their protein systems

Rosetta Commons Summer Research Intern, University of Colorado Boulder, June 2021 – August 2021
- Developed software to rapidly test more than 10000 small molecule drugs for protein binding.
- Applied the Rosetta protein folding software suite to add allosteric control to medically important enzymes
- Communicated with other project leads to implement the protocol into their protein systems.
- Generated, organized, and analyzed small-molecule datasets with millions of noisy entries

SKILLS

Technical
- Python (TensorFlow, NumPy, Pandas, Matplotlib)
- JavaScript (React, Next.js, Three.js, ngl)
- C++,
- MATLAB
- Rosetta Commons Protein Folding Software

Soft Skills
Friendly and able to work efficiently both individually and within a team.
Effectively communicate complex topics simply and persuasively.

ACCOMPLISHMENTS

Freshman Representative and Service Chair, Texas AIChE
Secretary, Texas OXE, Chemical Engineering honors society
Website Builder and Designer, Texas UAB
University and Engineering Honors