Winson Chen

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EDUCATION

University of California, Santa Cruz Santa Cruz, CA
Computer Science, Bachelor of Science *Expected June 2022*
- GPA: 3.86
- Spring 2022, Winter 2022, Fall 2021, Spring 2021, Fall 2020 Dean's Honor
- Next Gen. SAM Scholar (Funded by NSF (National Science Foundation))
- Scientific Computing and Applied Mathematics(SciCAM) Master's Program member
- CIDER Pilots In Training Program member

EXPERIENCE

HPC-FAIR Internship June 2022 – Present
Lawrence Livermore Nationa Laboratory *Remote*
- Making Machine Learning dataset more FAIR in HPC setting
- Create Ontology to help to connect all the data and information
- Scraping Data from the web to use for ontology library
- Learning about using CodeBERT to apply clone detection in practical uses

Lab Assistant August 2021 – Present
University of California, Santa Cruz *Santa Cruz, CA*
- Collecting data with by simulating drone controller to create visual language navigation dataset
- Creating toolbox to help help users to find published papers from Association for Computational Linguistics
- Finding best model to fit in the drosophila spatial data

Group Tutor January 2021 – Present
University of California, Santa Cruz *Santa Cruz, CA*
- Helping students with programming, debugging, and data structure
- Providing computer science help include Java, C, C++, and Python

PROJECTS

ACLTool | *Python, Flask, Pandas, HTML, Javascript, BeautifulSoup* November 2021 – January 2022
- Users can find all the papers that published from ACL Rolling Review for easy access.
- Doing natural language process to find hot topics in Machine Learning in recent months.

IGottaPoo | *React Native* April 2021 – June 2021
- IGottaPoo is an IOS crowd-sourced app that finds bathroom locations.
- Using the app, the user can easily find a selection of the nearest bathrooms.

C++ ConvolutionNN | *C++* July 2020 – Present
- This is the C++ version of a self-built convolutional neural network for image processing.
- Finished with Matrix class and layer class and working on the backpropagation of the network currently.

PUBLICATIONS

Aerial Vision-and-Dialog Navigation
Yue Fan, Winson Chen, Tongzhou Jiang, Chun Zhou, Yi Zhang, Xin Eric Wang *arXiv:2205.12219*

TECHNICAL SKILLS

Languages: Python, C, C++, Matlab, Java, Swift, Latex
Frameworks: Flask, PostgreSQL, React Native
Developer Tools: Visual Studio Code, Vim, Xcode
Libraries: Pandas, Numpy, Keras, BeautifulSoup