

Winson Chen

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EDUCATION

Irvine Valley College

Computer Science, Associate in Science, Cum laude

- GPA: 3.58
- Honors Program

Irvine, CA

August 2020

University of California, Santa Cruz

Computer Science, Bachelor of Science, Cum laude

- GPA: 3.86

Santa Cruz, CA

June 2022

University of California, Santa Cruz

Scientific Computing and Applied Mathematics, Master of Science

- GPA: 3.86

Santa Cruz, CA

Expected June 2023

EXPERIENCE

HPC-FAIR Internship

Lawrence Livermore National Laboratory

- 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

June 2022 – Sept. 2022

Remote

ERIC Lab Assistant

University of California, Santa Cruz

- Received Amazon Alexa Prize Award to work on Alexa Prize SocialBot, TaskBot Challenge
- Collecting data with by simulating drone controller to create visual language navigation dataset
- Developed toolbox to help users to find published papers from Association for Computational Linguistics

August 2021 – Present

Santa Cruz, CA

Research Assistant

University of California, Santa Cruz

- Utilizing PySINDY package to fit the spatial-temporal data of drosophila genes using machine learning
- Experimenting various models to find the behavior of drosophila gap genes

August 2021 - December 2021

Santa Cruz, CA

CIDER Pilots In Training Program member

University of California, Santa Cruz

- Received FAA Remote Pilot License
- Pilot training in DroneDeploy, hands-on flight
- Trained skilled for flight planning,

January 2022 - March 2022

Santa Cruz, CA

Group Tutor

University of California, Santa Cruz

- Helping students with programming, debugging, and data structure
- Providing computer science help include Java, C, C++, and Python

January 2021 – May 2022

Santa Cruz, CA

CODE RELEASE

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.
- Uses natural language processing to find recent trending topics in Machine Learning.
- **Github Repository**

PUBLICATIONS

Aerial Vision-and-Dialog Navigation

Yue Fan, Winson Chen, Tongzhou Jiang, Chun Zhou, Yi Zhang, Xin Eric Wang

To be submitted to Association for Computational Linguistics (ACL'23) available at arXiv:2205.12219

Early Experience with Transformer-Based Similarity Analysis for DataRaceBench

Winson Chen, Tristan Vanderbruggen, Pei-Hung Lin, Chunhua Liao, Murali Emani

Accepted Conference Proceeding for Correctness workshop at SC22 (The International Conference for High Performance Computing, Networking, Storage, and Analysis)

Making Machine Learning Datasets and Models FAIR for HPC: A Methodology and Case Study

Pei-Hung Lin, Chunhua Liao, Winson Chen, Tristan Vanderbruggen, Murali Emani

Published Conference Proceeding for TEML'22 (2022 Fourth International Conference on Transdisciplinary AI (TransAI))

TALKS

Early Experience with Transformer-Based Similarity Analysis for DataRaceBench

Dallas, Texas 11/18/2022

In-person talk at Correctness workshop at SC22

TEACHING

Graduate Teaching Assistant

University of California, Santa Cruz

Sept. 2022 - Present

Santa Cruz, CA

- AM 214 (Applied Dynamical System): grading
- MATH 19A (Calculus for Science, Engineering, and Mathematics): discussion, grading, office hours

HONORS AND AWARDS

- Dean's Honor: Fall 2020, Spring 2021, Fall 2021, Winter 2022, Spring 2022
- Next Gen. SAM Scholar (Funded by National Science Foundation)

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