Victor Wang

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EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN

Turing Scholars Honors | BS in Computer Science, Mathematics

GPA: 3.83

Graduation date: May 2025

Organizations: Turing Scholars Student Association, UT Programming Contest

LINKS

Website
Google Scholar
Github
LinkedIn

SKILLS

Languages: Java, C++, Python

AWARDS

- USA Computing Olympiad Platinum
- Codeforces Candidate Master
- AIME score 8
- Facebook Hacker Cup Round 2 Top 1500
- Google Code Jam Round 2 Qualifier
- Lockheed Martin Code Quest Champion
- CSEDM Data Challenge 5th

COURSEWORK

(G = Graduate, H = Honors)
Topics in NLP[G], Grounded NLP[G], Reinforcement Learning[G], Continuous Algorithms[G], Operating Systems[H], Computer Architecture[H], Data Structures[H], Algorithms & Complexity[H], Natural Language Processing, Principles of Machine Learning[H], Autonomous Driving[H], Quantum Information Science[H]

Real Analysis, Algebraic Structures, Number Theory, Complex Analysis, Mathematical Statistics, Probability, Linear Algebra, Discrete Math[H], Numerical Analysis, Stochastic Processes, Applied Machine Learning, Decision Analytics, Differential Equations

INDUSTRY

SCHLUMBERGER | ROBOTICS DEVELOPER
May 2022 – Aug 2022 | Menlo Park, CA
- Created an application to allow a robot to locate a sound source and approach it
- Worked with sensors such as a lidar, microphone array, & event-based camera

HACKERRANK | PROBLEM WRITER
Oct 2020 – Mar 2021 | Remote
- Designed, wrote and tested algorithmic problems for HackerRank coding interviews
- Collaborated with problem reviewers to best assess technical skills of developers

RESEARCH

UT NLP
Jan 2024 – Present | Austin, TX | Advisor: Dr. Eunsol Choi
- Building a QA dataset with temporal dependence, and models to tackle it

SCHOOL OF INFORMATION
May 2023 – Dec 2023 | Austin, TX | Advisors: Dr. Eunsol Choi, Dr. Min Kyung Lee
- Designed an LLM-based summarization model for case notes used by homeless services

SCHOOL OF BIOMEDICAL INFORMATICS
Apr 2021 - May 2022 | Houston, TX | Advisor: Dr. Degui Zhi
- Developed algorithms in haplotype matching and ancestral recombination graphs for applications in population genomics

UNIVERSITY OF HOUSTON
Jul 2020 - Apr 2021 | Houston, TX | Advisor: Dr. Chandra Mohan
- Researched approaches to single cell clustering

PROJECTS

SYLLABLE-PBWT
Apr 2021 – Jan 2022
- Devised and implemented an algorithm that performs haplotype query search with 100 times less memory usage than previous methods

TOWEL-FOLDING ROBOT
Sep 2017 – Jul 2018
- Built a towel-folding robot with a team of 4 under a mentor
- Used machine vision to find towel corners and send commands to the robot arm

PUBLICATIONS

- Designing LLM-Based Support for Homelessness Caseworkers (*AAAI PubLLM, 2024*). Whitney Nelson, **Victor Wang**, Eunsol Choi, Min Kyung Lee
- Syllable-PBWT for space-efficient haplotype long-match query (*Bioinformatics, 2023*). **Victor Wang**, Ardalan Naseri, Shaojie Zhang, Degui Zhi
- P-smoother: efficient PBWT smoothing of large haplotype panels (*Bioinformatics Advances, 2022*). William Yue, Ardalan Naseri, **Victor Wang**, Pramesh Shakya, Shaojie Zhang, Degui Zhi
- MorphSet: Improving Renal Histopathology Case Assessment Through Learned Prognostic Vectors (*MICCAI, 2021*). Pietro Antonio Cicalese, Syed Asad Rizvi, **Victor Wang**, Sai Patibandla, Pengyu Yuan, Samira Zare, Katharina Moos, Ibrahim Batal, Marian Clahsen-van Groningen, Candice Roufosse, Jan Becker, Chandra Mohan, Hien Van Nguyen
- Polaratio: A magnitude-contingent monotonic correlation metric and its improvements to scRNA-seq clustering (*bioRxiv, 2020*). **Victor Wang**, Pietro Antonio Cicalese, Anto Sam Crosslee Louis Sam Titus, Chandra Mohan