

Yuan Chang

CONTACT INFORMATION	1659 Drew cir Davis, CA 95618	(530) 760-6690 merchang@ucdavis.edu
EDUCATION	University of California, Davis, CA B.S. Computer Science, Sept 2018 - Jun 2022 <ul style="list-style-type: none">• Minor in Mathematics.• UC GPA: 3.903, Major GPA: 3.950.• Dean's honors list of Winter and Fall of 2019, Winter of 2020, Spring of 2021.	
PROGRAMMING LANGUAGES AND SKILLS	Proficient: C/C++, Python, L ^A T _E X, Maple, R, Unix, Bash script Familiar/Beginner: Java, MATLAB, Mathematica, RISC-V Assembly Languages: Chinese(Native), English(Fluent), French(Beginner)	
INTERNSHIP & EXPERIENCE	UC Davis Applied Mathematics Summer Research Research student Summer 2021 - present <ul style="list-style-type: none">• Study both theoretical Ramsey Theory and computational methods.• Modify and write scripts to aid computation.• Using Boolean algebra(SAT) to significantly reduce the cost of computation.• Research under the supervision of Prof. Jesus De Loera and Jack Wesley. International Family Union Teaching Associate Summer 2020 - 2021 <ul style="list-style-type: none">• Teaching in Computer Science.• Design and taught areas such as Unix, C++, algorithms and data structures.• Introduce advanced topics such as dynamic memory management and recursion. Davis Senior High School Teacher's Assistance Fall 2019 <ul style="list-style-type: none">• Teach along with Mr.Harvey in his robotics class.• Help program autonomous and remote controlled robots in C/C++ language.• Clerical tasks such as taking attendance and grading course works.	
PERSONAL PROJECTS & RESEARCH PAPERS	Swift Development (2021) <ul style="list-style-type: none">• Initial attempt at making a mobile application using Swift.• TicTacToe game using the core ideas of swift - MVVM, Core data, optionals.• Following the guidance of Apple's application policies. Robotic Arm Project (2020) <ul style="list-style-type: none">• Study of a specialized two segments robotic arm with computational algebra.• Analysis of many real life robotic arm problems such as kinematics singularity and reversed kinematics problems. RSA Encryption and Modular Arithmetic (2019) <ul style="list-style-type: none">• Insight look into RSA encryption through the lens of computer science and mathematics	