**Huasen Xi**

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**Education**

**University of Chinese Academy of Science(UCAS) Sept 2021-Present**

**University of California, Berkeley(UCB) Jan 2024-Present**

**Bachelor of Engineering (Expected 2025) GPA: 3.92/4**

**Academic Experiences**

**C Language Programming for Gobang**

**September 2022 - January 2023**

Institution: University of Chinese Academy of Sciences

Director:Chenggang Wu, Ph.D. Institute of Computing Technology, Chinese Academy of Sciences.

* Completed the Gobang C language program that can achieve human-machine and human-person combat

functions, and implemented the replay and repentance functions.

* Using pruning technology to simplify the scoring function and achieve deeper levels of search.

**Airborne Synthetic Aperture Radar Imaging Project November 2021 - Present**

Institution: University of Chinese Academic of Science

Director: Prof. Dr. Robert Wang, Aerospace Information Research Institute (AIR)，Chinese Academy of Sciences

(CAS)

* Mastered the significant techs of Synthetic Aperture Radar, including Pulse Compression and Range

Migration Correction and etc. Operated phased array and other equipment on-site.

* Specifically designed the various indicators and parameters of a drone equipped with SAR.
* Successfully deployed synthetic aperture radar on drones and completed near-Earth scanning imaging.

**COD-Lab**

**February 2023- July 2023**

Institution: University of Chinese Academy of Sciences, Institute of Computing Technology

Director: Zhang Ke, Ph.D. Institute of Computing Technology, Chinese Academy of Sciences.

* Designed a single cycle CPU based on mips instructions, as well as multi cycle CPUs based on risc-v instruction set and mips instruction set with D-cache and I-cache.
* Completed the dnn convolutional neural network accelerator.

**MRI image recognition and classification of Alzheimer's disease**

**February 2023- July 2023**

Institution: University of Chinese Academy of Sciences, Institute of Automation Chinese Academy of Sciences

Director: Professor Zhaoxiang Zhang, PhD, [Center for Research on Intelligent Perception and Computing](http://www.cripac.ia.ac.cn/CN/model/index.htm" \t "https://people.ucas.edu.cn/_blank)

* Learned the use of Resnet neural networks and improved classification accuracy using the ensemble learning method of neural networks and SVM.
* Ultimately, the recognition readiness rate of Alzheimer's patients‘s MRI was increased to 0.98.

**Applying SAM to Video Segmentation**

**July 2023-August 2023**

* Systematically read the principles of SVM and attempted to apply it to each frame of the data stream to correct video segmentation.

**Honors and Awards**

**2023 American College Student Mathematical Modeling Competition s Award May 2023**

**Second class scholarship of UCAS October 2022**

**Outstanding student of UCAS October 2022 Extracurricular Activities**

**Providing academic assistance and guidance to lower grade students as peer tutoring**

**September 2022 - January 2023**

**Skills and Hobbies TOEFL:90(R22, L27, S21, W20) TEST DATE:August 15th 2023**

**Programming:C,go,python,verilog.**

**Chess:Chinese Chess, International Chess, and Japanese General Chess**

**Sports:Basketball, Pingpang, Tennis，Swimming.**