

# Yung-Chieh Chan

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## EDUCATION

### University of California, San Diego

*Bachelor of Science in Data Science*

San Diego, California

*September 2019 - June 2022*

- Major GPA: 4.00 | Cumulative GPA: 3.98
- *Summa Cum Laude* (Top 2%)
- Eleanor Roosevelt College Provost Scholar 2022
- Relevant Coursework: Probabilistic Reason & Learning, Deep Learning, Data Mining, Intro to Comp Vision I, System for Scalable Analytics, Intro to Data Visualization, Game Theory, Data Analysis and Inference

## WORK EXPERIENCE

### Software Development Engineer Intern

*Amazon Web Services, Edge ML*

June 2022 - September 2022

*Seattle, Washington*

- Designed and implemented a serverless, end-to-end notification feature for AWS computer vision service platform using Java, React JS, and AWS services: DynamoDB, API Gateway, CloudWatch, Lambda, and Step Functions

### Undergraduate Researcher

*Cognitive Science, University of California San Diego*

December 2021 - June 2022

- Researched the possibility of integrating search algorithms in vision transformer on reinforcement learning tasks
- Developed a distributed Monte Carlo Simulation framework with ViT agents to synthesize billions of training data
- Increased the training and evaluating throughput of a Go game agent by more than 200% with resource management of multithread processes and cross-server data query optimization

### Undergraduate Researcher

*Computer Science and Engineering, University of California San Diego*

January 2021 - June 2022

- Devised an image segmentation pipeline to analyze microscopic images of skin biopsies
- Presented at Medical Image Learning with Limited & Noisy Data workshop at MICCAI 2022, Singapore

### Machine Learning Intern

*WinSanTor*

June 2021 - June 2022

*San Diego, California*

- Adapted computer vision algorithms to real-world clinical data on a digital pathology software

### Date Science Tutor

*Halcioğlu Data Science Institute, University of California San Diego*

September 2020 - March 2022

- Tutored Python and Java data structures & algorithms classes, receiving 100% feedback from students
- Held weekly office hours, designed programming assignments and exams

### Back-End Developer Intern

*Foxconn*

July 2020 - August 2020

*Taipei, Taiwan*

- Troubleshoot all issues in the error log and optimized a multi-server message exchange engine
- Designed, implemented, and tested a database backup strategy with MySQL, Redis, and MongoDB

### Data Scientist Intern

*Cmoney - FinTech company based in Taiwan*

June 2019 - August 2019

*Taipei, Taiwan*

- Achieved 98% accuracy on categorizing electronic receipts with LSTM and other NLP algorithms

## PUBLICATIONS

- Xu, Y., Hansen, N., Wang, Z., **Chan, YC.**, Su, H., Tu, Z. (2022). On the Feasibility of Cross-Task Transfer with Model-Based Reinforcement Learning. ICLR 2023, NeurIPS 2022 DeepRL Workshop, and CoRL 2022 Workshop PRL
- **Chan, YC.**, Zhang, J., Frizzi, K., Calcutt, N., Cottrell, G. (2022). Automated Skin Biopsy Analysis with Limited Data. Medical Image Learning with Limited and Noisy Data. MILLanD 2022

## OTHER EXPERIENCE

### Data Science Chair

*Chinese Computer Community, University of California San Diego*

January 2020 - June 2022

- Initiated data science & machine learning projects and managed their development process
- Organized deep learning workshops and led teams of machine learning enthusiasts in Kaggle competitions

### Data Science Capstone Project - Explainable AI, Causal Inference

*University of California San Diego*

September 2021 - March 2022

- Evaluated the fairness of machine learning applications with causal inference and model agnostic algorithms

## SKILLS

**Languages:** Python, Java, SQL, C++, Bash, JavaScript, HTML and CSS, R

**Frameworks/Developing Tools:** React, Jupyter, Docker, Kubernetes, AWS, Git/Github, Azure

**Libraries:** PyTorch, TensorFlow, Scikit-learn, Keras, Dask, Spark, Pandas, Seaborn, Altair, BeautifulSoup, AIX360