

HAOYANG CHEN

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EDUCATION

University of Southern California

M.S. Computer Science

- GPA 3.68/4.0

Los Angeles, CA
08/2020-present

The Ohio State University

B.S. Computer Science and Engineering

- Selected awards: DEAN LIST (AU16, SP17, AU19, SP20)

Columbus, OH
08/2016-05/2020

ACADEMIC EXPERIENCE

Interactive and Collaborative Autonomous Robotics Lab (Prof. Stefanos Nikolaidis)

Research Assistant, University of Southern California

Human Robot Collaboration

07/2021-present

- Created simulation environments for testing and did testing on real robots.
- Did multi-agents task and motion planning
- Trained neural network and GNN to make the planner learn from previous experience
- Researched on how collaboration strategies can be helpful

Enhancing Neuro Imaging Genetics Through Meta Analysis (Prof. Yolanda Gil)

Research Assistant, University of Southern California

NeuroDISK

05/2021-present

- Created WINGS workflow and implement neuroimaging meta-analysis methods
- Did neuroimaging data extraction and cleaning
- Predicting brain age through deep learning
- Created the NeuroDISK website (<https://knowledgecaptureanddiscovery.github.io/NeuroDISK/>)

Scientific Discovery in Aging

01/2021-04/2021

- Created WINGS workflow to analyzing correlation among genes, sleep and aging automatically
- Analyzed Drosophila data using Python, Plink and GWAS scan
- Adjusted p-values for SNPs and do visualization
- Created the Aging website (<https://sites.google.com/usc.edu/scientificdiscoveryinaging/home?authuser=3>)

WORK EXPERIENCE

The Ohio State University

Grader, Department of Computer Science and Engineering

Columbus, OH
01/2020-05/2020

- Grader of Computer Animation
- Assisted to grade student's projects and assignments

Beijing GE Hualun Medical Equipment Company Limited

Intern

Beijing, China
05/2017-07/2017

- Labeled X-ray image for the machine learning research
- Did data analysis on X-ray image data
- Collected data for the Healthcare

LEADERSHIP AND COMMUNITY ACTIVITIES

DataFest Competition of The Ohio State University

Team Leader

Columbus, OH
04/2019

- Predicted an athlete's performance in future games by analyzing a large amount of the athletes of data
- Made graphs for each subitem to get insights into their relationship with the athlete's daily load
- Won the Best Visualization Award

Dance of the Soul, Dance Illumination, Inc.

Treasurer

Vice Chairman of Marketing

Columbus, OH
05/2017-12/2017
11/2017 – 07/2018

- Gave dancing performance for the public on stage
- Provided instruction about Jazz skills to other members in the group
- Worked with dancers to plan out complex movements and steps on a stage during a show
- Won the Award of Senior Dancer in December 2016