HAOYANG CHEN

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EDUCATION

University of Southern California   Los Angeles, CA
M.S. Computer Science   08/2020-present
- GPA 3.68/4.0

The Ohio State University   Columbus, OH
B.S. Computer Science and Engineering   08/2016-05/2020
- Selected awards: DEAN LIST (AU16, SP17, AU19, SP20)

COURSEWORK

Introduction to Robotics, Machine Learning, Foundations and Applications of Data Mining, Database System, Foundations of Artificial Intelligence, Analysis of Algorithms, Computer Animation

TECHNICAL SKILLS

Technical: Python, C++, C#, R, HTML, SQL
Tools: ROS, Unity, Linux, Git, NumPy, Pandas, matplotlib, scikit-learn, PySpark, CLion, PyCharm, RStuido, Visual Studio Code

EXPERIENCE

Enhancing Neuro Imaging Genetics Through Meta Analysis (Prof. Yolanda Gil)
Research Assistant, University of Southern California   Los Angeles, CA

NeuroDISK   05/2021-present
- Created WINGS workflows and implemented neuroimaging meta-analysis methods
- Did euroimaging data extraction and cleaning
- Created the NeuroDISK website (https://knowledgecaptureanddiscovery.github.io/NeuroDISK/)
- Predicting brain age using xgboost, svm and other regression algorithms

Scientific Discovery in Aging   01/2021-04/2021
- Created WINGS workflows 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)

Interactive and Collaborative Autonomous Robotics Lab (Prof. Stefanos Nikolaidis)
Research Assistant, University of Southern California   Los Angeles, CA

Human Robot Collaboration   07/2021-11/2021
- 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

The Ohio State University   Columbus, OH
Grader, Department of Computer Science and Engineering   01/2020-05/2020
- Grader of Computer Animation
- Assisted to grade student's projects and assignments

Beijing GE Hualun Medical Equipment Company Limited   Beijing, China
Intern   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   Columbus, OH
Team Leader   04/2019
- Predicted an athlete's performance in future games by analyzing a large amount of the athletes' data
- Made graphs for each subitem to get insights into their relationship with the athletes' daily load
- Won the Best Visualization Award

Dance of the Soul, Dance Illumination, Inc.   Columbus, OH
Dancer   10/2016 - 08/2019
Vice Chairman of Marketing   11/2017 – 07/2018
- Gave dancing performance for the public on stage
- 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