

Jincenzi Wu

Email: jincenziw@outlook.com/Tel.: (+86)18725532619/Add.: AnHui Polytechnic University, Wuhu Anhui, China, 241000

EDUCATION BACKGROUND

New York University (NYU)

Master of Science in Computer Engineering

- GPA: 3.556/4.0
- Honor: Academic Scholarship (09/2019)

New York, United States

09/2019 - 05/2021

Deakin University

Bachelor of Information Technology (Honours)

- GPA: 4.0/4.0 (WES)
- Honor: Academic Scholarship (02/2018)

Melbourne, Australia

07/2017 - 06/2019

Southwest University

Bachelor of Engineering in Software Engineering

- GPA: 3.46/4.0 (Rank: 5/134)
- Honors: Excellence Award of College Students Innovation and Entrepreneurship Competition (09/2018)
First Prize Scholarship; Excellent Individual of Technological Innovation (12/2016 & 12/2017)
Merit Student; Outstanding Youth Volunteer (12/2016)

Chongqing, China

09/2015 - 06/2019

Professional Skills

- Python, Java, MATLAB, C++, MySQL, TensorFlow, PyTorch
-

PUBLICATIONS

- **Jincenzi Wu**, Yuanyuan Li, Yizhou Ma, *Comparison of XGBoost and the Neural Network Model on the Class-Balanced Datasets*, The 2021 IEEE 3rd International Conference on Frontiers Technology of Information and Computer, Qingdao, 2021
 - Yuan Ge, Yan Zhang, Wengen Gao, Fanyong Cheng, Nuo Yu, **Jincenzi Wu**, *Modelling and Prediction of Random Delays in NCSs Using Double-Chain HMMs*, Discrete Dynamics in Nature and Society, vol. 2020, Article ID 6848420
 - Qicao Deng, Liping Zhang, Yiwen Dou, **Jincenzi Wu**, Tao Liu, *Edge Saliency based on Biological Inspiration for Object Edge Extraction under Low Illumination*, 11th International Symposium on Computational Intelligence and Design, HangZhou, 2018, vol. 2:346-351
-

RESEARCH EXPERIENCES

A Q&A System based on the Mental Health Consultation Knowledge Graph,

09/2021 - Present

Tsinghua University

Research Assistant, Advisor: Prof. MinLie Huang

- Mainly responsible for knowledge extraction, pre-training model construction and training
- Collected data from Wikipedia and PubMed and performed data cleaning
- Offered a knowledge graph for the mental health consulting Q&A system
- Self-learned courses of Stanford cs224 and Artificial Neural Network at Tsinghua University

Comparison of XGBoost and the Neural Network Model on the Class-Balanced Datasets

05/2021 - 08/2021

Research Assistant, Group Leader, Advisor: Prof. Victor Adamchik

- Took responsibility for XGBoost and Neural Network setting, model optimization, and model training with public class-balanced structured data
- Completed experiment data analysis and data cleaning on five public binary classification datasets from Kaggle
- Provided an option to optimize the binary classification performance of the neural network on the discrete data

Modeling and Prediction of Random Delays in NCSs Using Double-Chain HMMs, Anhui Polytechnic University

06/2020 - 09/2020

Research Assistant, Advisor: Prof. Yuan Ge

- Optimized the model parameters by using the segmental K-mean clustering algorithm
- Proposed double-chain hidden Markov model to model and predict random delays in networked control systems

Readable and Reliable Code Examples Ranking in Q & A Forum, Deakin University 04/2018 - 05/2019

Research Assistant, Advisor: Dr. Lei Pan

- Accomplished collecting stack overflow posts, application of the description estimation model and description estimation algorithm
- Sorted answers in the Question forum and provided users with readable and reliable answers by judging the readability of the code comments, and API

Edge Saliency Based on Biological Inspiration for Object Edge Extraction Under Low Illumination, Anhui Polytechnic University 10/2017 - 09/2018

Research Assistant, Advisor: Prof. Qichao Deng

- Proposed and optimized visual saliency model by using the biological heuristic intelligent algorithm
- Designed and improved Firefly algorithm to extract the salient region of edge vision and obtain edge information under low illumination

INTERNSHIP EXPERIENCES

Commonwealth Scientific and Industrial Research Organization (CSIRO), Hobart, Australia 11/2018 - 02/2019

- Engaged in the project of *Privacy-preserving Publishing of Linked Data*
- Investigated properties leading to privacy issues and linked data with the adaption of an existing anonymization model
- Assisted in the implementation of linked data anonymization operation with python

Chinese Academy of Sciences, Beijing, China 06/2018 - 08/2018

- Involved in the project of *Using Convolutional Neural Network (CNN) model for face verification*
- Adjusted the structure of the model for face verification based on the existing VGG16 network

COURSE PROJECTS

Bengali Handwritten Recognition Based on the Convolutional Neural Networks, NYU 02/2021 - 05/2021

Developer, Advisor: Prof. Chinmay Hegde

- Developed a character recognition model based on the convolutional neural network
- Implemented the classification model based on the Efficient Net

Motion Planning in Robotics, NYU 09/2020 - 12/2020

Developer, Advisor: Prof. Giuseppe Loianno

- Designed a second-order inversion kinematic algorithm
- Generated a trajectory in the robot operational space

Embedded Sentry, NYU 02/2020 - 05/2020

Developer, Advisor: Prof. Matthew Campisi

- Collected the data with the MPU-6050 accelerometer
- Used a microcontroller 'Atmel SAM D21' to process the data and set a hand movement sample
- Identified the hand movement on Arduino via C++ code

EXTRACURRICULAR ACTIVITIES

Volunteer for Allplay, an Australian Disability Website 03/2019

- Gathered information on organizations that provide activities for children with disabilities across Australia and created a visualized dynamic map navigation
- Reduced fear of unfamiliar environments for disabled children

Class Student Committee Member, Southwest University 09/2016 - 07/2017

- Organized class regular volleyball and basketball training
- Led the team to win second place in the college basketball tournament in 2016

Volunteer at Wuhu Railway Station, Anhui, China 02/2016 & 02/2017

- Facilitated passengers in need during Spring Festival
- Helped elderly passengers to buy tickets

Acting Director of Arts and Culture Department of the College Student Union, SWU 09/2015 - 09/2016

- Adopt incentive methods to organize training activities for team members
 - Successfully organized the 2016 Freshman Arts Competition and the 2016 Graduating Class Party
-