

Yu, Jichao (Ciao)

614-264-2313 | ciao_yu@outlook.com

EDUCATION

Wuhan University of Science and Technology — *Hubei, China*

- Major: Electronic Information Engineering | GPA: 3.76/4.0
- B.Eng Degree Obtained, June 2021
- Outstanding Graduate Thesis Award

The Ohio State University — *Ohio, USA*

- Major: Electrical & Computer Engineering | GPA: 3.66/4.0
- MS Degree Obtained, May 2024

The University of Georgia — *Georgia, USA*

- Major: Computer Science
- Expected 5.2029

PUBLICATIONS & APPEARANCES

- Author: "Prediction Model Hadoop-based for High-risk Students," *Advances in Computer Science Research*, Volume 93. 2019:2352–538X.
- Author: "Research on Personalized Learning Space in Internet and Big Data Environment," *Software Guide*. 2019,12:1672–7800
- Co-Author: "Features Selection of Exponential Distribution-based Unbalanced Data," *Statistics & Decision*. 2019,20:1002–6487
- Co-Author: "Research on Prediction of 'Four Challenged Students' Based on Big Data," *Information and Communications*. 2019,9:1673–1131
- Co-Author: "Analysis on the technical framework of virtual college students' mental health service center," *Changjiang Information & Communications*. 2022,35(12):123-126

RESEARCH

Research on Federated Learning

05/2023 - present, OSU Department of Electrical and Computer Engineering

Advisors: Jia (Kevin) Liu, Haibo Yang

- Using PyTorch to train federated learning heterogeneous models to improve the performance of different heterogeneous models.
- ResNet and Transformer models were used to train on the CIFAR-10, CIFAR-100, and Wikitext datasets.
- The relevant research results are planned to be submitted in January 2024(ICML).

Research on Detecting Space Satellites

12/2022 - 5/2023, OSU Department of Electrical and Computer Engineering

Advisor: Wladimiro Villarroel

- Use of Matlab to preprocess satellite images and training of a ResNet model using Python.
- Achieved a final accuracy of 99%.

Big data-driven prediction and evaluation of teaching effectiveness)

01/2023 - 5/2023, HUBEI UNIVERSITY OF ECONOMICS

Advisor: Xiaogao Yu

- Chinese Society of Higher Education's Special Project on Digital Course Resources, Project Number: 21SZYB01
- Optimization of a weighted voting ensemble prediction model using Python.
- Final ensemble model achieved an accuracy of 99.3%, surpassing that of individual prediction models.

Research on Mental Health Risk Warning and Crisis Intervention for College Students (Research Assistant)

11/2021 - 12/2022, HUBEI UNIVERSITY OF ECONOMICS

Advisor: Xiaogao Yu

- Part of a major research project in philosophy and social sciences in higher education institutions in Hubei Province (China), project number: 21ZD092.
- Finish feature extraction related to learning psychology and mental health using Python.