

Zhao Xinyi

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EDUCATION

School of Data Science, Fudan University

Shanghai, China

Bachelor of Data Science

Sep 2019-Jun 2023

GPA (overall): **3.66/4.0**; Ranking: **18/80**

Core courses: Machine Learning, Artificial Intelligence, Neural Network and Deep Learning, Image Processing Data Visualization, Graph Data Mining, Statistical Computing, Database Principle and Application, Numerical Analysis, Stochastic Process, Probability Theory, Linear Algebra

AWARDS

2020-2021 Fudan University Undergraduate Scholarships (20/65)

Sep 2021

2019-2020 Fudan University Undergraduate Scholarships (20/65)

Sep 2020

RESEARCH EXPERIENCES

Data Visualization Research Project, Online Research | Researcher

Aug 2022-Sep 2022

Advisor: Postdoctoral Faculty Meng Xia, Human-Computer Interaction Institute, CMU

- Built an interaction interface presenting students' problem-solving processes, including hint-asking behaviors.
- Conducted a within-subject user study with math teachers to derive data insights for improving intelligent tutors.
- Paper submitted and under censoring for CHI 2023 as the second author.

Human Computer Interaction Research Project, CMU Online Intern | Intern

Jun 2022-Aug 2022

Advisor: Professor Vincent Aleven, Human-Computer Interaction Institute, CMU

- Helped build a web-based intelligent tutoring tool which provides step-wise, personalized and immediate feedback based on a cognitive model for students.
- Built an editor with formula matcher for student input and bound skills with each interaction.

Deep Learning Research Project, Fudan University | Researcher

May 2022-Jul 2022

Advisor: Professor Yanwei Fu, School of Data Science, Fudan University

- Built a neural network framework for few-shot oracle character recognition problems.
- Applied non-rigid transformation as a data augmentation method for our training and reached a significant increase of accuracy through comprehensive experiments.
- Paper accepted for ACCV2022 as the lead author.

Data Visualization Research Project, Fudan University | Researcher

Jul 2021-Mar 2022

Advisor: Professor Siming Chen, School of Data Science, Fudan University

- Independently researched on 3D point cloud segmentation, built a system for interactive point cloud labeling combined with default labeling using deep learning method.
- Proposed an innovative interactive labeling method using SVM, density-based clustering and Fitts's law.

Natural Language Processing Research Project, Online Project | Researcher

Apr 2021-Jul 2021

Advisor: Hongyin Luo, Ph.D, Computer Science & Artificial Intelligence Lab, MIT

- Did a personal research on question answering model with DistilBERT transformer using squad dataset.
- Trained a dynamic question answering model using generated QA pairs and compared its performance.
- Identified the questions that cannot be answered based on context.

Machine Learning and Business Analytics, MIT Online Course | Group Leader

Jan 2021-Feb 2021

Advisor: Professor Hui Chen, MIT Sloan School of Management

- Accomplished a hard task utilizing machine learning in quantitative investing.
- Constructed a quantitative portfolio strategy employing LASSO regression and Time series analysis which both performs both high accuracy and profit rate.
- Won total score 95/100, grade A in the end.

“Phosphor” Scientific Research Project, Fudan University | Researcher

Sep 2020-Apr 2021

Advisor: Professor Yan Zhao, Department of Materials Science, Fudan University

- Did a group research on properties of an innovative stretchable electrode material PEDOT:PSS spin-coated on silicon wafer. Compared electrical conductivity, stretchability along with transparency in different proportions.
- Analyzed the first-handed experimental data and made a literature review.

SKILLS & OTHERS

Programming Languages: Proficient: Python, JavaScript, R Intermediate: MATLAB, SQL

Language: Mandarin Chinese (Native), English (TOEFL 100) (GRE 154+169+4.0)

Interests: Chinese painting, digital graphics drawing, travel, experienced in organizing group activities.