Jiazhen GUO

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EDUCATION

Zhejiang University (ZJU), Hangzhou, China Aug 2017-Present
B.S. in Information Engineering (expected in June 2021)

- Overall GPA: **3.90/4.00**
- Rank: **13/146** in the Information Engineering Department, College of Information Science & Electronic Engineering
- Member of the Chu Kochen Honors College (Minor in Advanced Honor Class of Engineering Education)
- 7 years of programming experience in C, Python, Go and MATLAB
- Core courses: Digital Signal Laboratory (94) / Signal and Systems (91) / Data Analysis and Algorithm Design (93) / Digital Signal Processing (92) / Computer Organization and Design (94) / Information, Control & Computing (91) / Digital Image Processing (95) / Principles of Communications (90) / Computer Vision (97)

RESEARCH EXPERIENCE

Institute for Data Engineering and Science | Georgia Institute of Technology | Remote | Research Assistant
Advisor: Prof. ***Chao Zhang***

Bert and Self-training Assisted Event Extraction with Distant Supervision Jul 2020-Oct 2020

- Improved recall by fine-tuning the RoBERTa model on distantly-matched labels generated from open-domain corpora by Snorkel with defined rules and key words
- Devised a self-training scheme to tackle with the noisy label problem and further improved the recall.

Institute of Multisource Perception and Machine Intelligence | Zhejiang University | Research Assistant
Advisor: Prof. ***Chunguang Li***

Semi-Supervised Ordinal Regression for Image Ranking Jan 2021-Present

- Conducted extensive research on optimization problem design of ordinal regression mode with semi-supervised learning.

Asymmetry Deep Double-bit Hash Learning for Image Retrieval Apr 2019-Apr 2020

- Proposed an end-to-end deep model asymmetrically learns compact and efficient hash code for cases with large-scale database, the MAP result increase from 87.84 to 90.04 on NUS-WIDE.
- Devised the formulation of hashing problem with bits balance and uncorrelation constraints, using double-bit quantization strategy.
- Presented a novel strategy transforming the discrete optimization problem in learning binary code into a continuous one without relaxations and improved the performance of the model.

HONORS AND AWARDS

Provincial Government Scholarship (21 out of 146)	2020
Second-Class Scholarship for Outstanding Merits, Zhejiang University (top 8% at ZJU)	2020
Third-Class Scholarship for Outstanding Merits, Zhejiang University (top 15% at ZJU)	2019
National Scholarship (Official Honor of the Highest Level, 2 out of 146)	2018
First-Class Scholarship for Outstanding Merits, Zhejiang University (top 3% at ZJU)	2018
Academic Excellence Awards (top15% at ZJU)	2018, 2019, 2020
Outstanding Volunteer (7 out of 311)	2020

SELECTED COURSE PROJECTS

An Intelligent Home Temperature and Humidity Detection System Feb 2019 – Jun 2019
Course: ***IoT System Design*** | Zhejiang University | Project Leader

- Front-end web development was based on UmiJS+Ant Design+dva, presenting the current temperature and humidity detected by the hardware terminal
- Back-end development was based on MySQL+MyBatis-Spring. data was retrieved from the Aliyun Cloud
- Embedded programming was based on AIoT-KIT, sending the detected data to the cloud

SKILLS AND OTHERS

Languages: Mandarin (native); English (fluent), TOEFL: 99/120
Computer Skills: Experienced in PyTorch, OpenCV, Docker