Rongzheng XIANG

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EDUCATION

Beijing University of Technology
School of Information Science and Technology
Bachelor of Engineering in Automation, GPA: 3.66/4.0 *Aug 2021- Jun 2025(Expected)*

Nagoya University
School of Engineering
Exchange Student of Nagoya University Program for Academic Exchange (NUPACE) *Sep 2024- Feb 2025*

PUBLICATIONS

[1] Xiang, R., Huang, J., Yang, J. (2025). Contrastive learning with adversarial masking for sequential recommendation. Electronic Commerce Research and Applications. (Under Review)

RESEARCH EXPERIENCE

Contrastive Learning with Adversarial Masking for Sequential Recommendation
Advisor: Jian YANG, Associate Professor *First Author* *Aug 2023- Aug 2024*

- ✧ Introduced adversarial masks within the embedding layer, creating different augmentation views specifically designed for the SR task
- ✧ Integrated an inference module with an occlusion module, which not only refines the mask generation mechanism but also improves the recommendation task to higher levels of accuracy and efficiency
- ✧ Conducted a comprehensive set of experiments on four public datasets, which demonstrate the superiority of our proposed model over state-of-the-art baselines

Research on Hypertension Early Warning Model Based on Electronic Health Records
Advisor: Jianhui CHEN, Associate Professor *Group Member* *Dec 2021-Mar 2023*

- ✧ Processed large volumes of textual dataset via data mining and word segmentation techniques
- ✧ Constructed the testing and training dataset with extracted key information
- ✧ Participated the hypertension early warning model based on Health Electronic Records dataset research
- ✧ Conducted the analysis, evaluation benchmark and test work on warning model

INTERNSHIP EXPERIENCE

State Grid Corporation of China | Project Assistant *July 2023 - Aug 2023*

- ✧ Maintained operation of residential electrical equipment, and collected data information including driving force, load, energy consumption, voltage, current and other aspects of power generation, transmission and distribution
- ✧ Analyzed and processed data, eliminate abnormal data and noise interference to improve data quality and reliability, and provide support for subsequent business decisions

COURSE PROJECTS

Multi-function Smart Door Ringbell Design

Advisor: Shuangye CHEN, Associate Professor *Sep 2023- Dec 2023*

- ✧ Designed the electronic door ringbell supporting dynamic lighting, door knock activity timestamp record functionality, and PWM output control for both buzzer and LEDs
- ✧ Designed the calendar and clock display for the doorbell via GPRO programming design principle, and the program cycles once a second to check if the matching key is pressed to realize special functions

Simulation of Watertank Control System based on BP Neural Network

Advisor: Anqi FU, Associate Professor *Mar 2024- Jun 2024*

- ✧ Designed a piece of code to continuously randomly generate three PID parameters and put them into the PID controller to run, recording the results of each run and manually sifting through them to produce a data set
- ✧ Designed a BP neural network model, made predictions on the training set and the test set, and plotted line plots of the predicted and actual values for comparison, and calculated and displayed the mean square error of the predictions

OTHERS

- ✧ **I.T:** Basic skills for Python; C; Java; Multisim; Program on Stm32; Matlab; Labview
- ✧ **Honors:**

  The First Prize Scholarship (top 20%), 2024

  First Prize Scholarship for Long-term Overseas Study (top 30%), 2024
- ✧ **Personal Hobbies:** Gymnastic, Badminton