XIAOMAN LU Ph.D. Student

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EDUCATION

Department of Computer Science, University of Warwick Coventry, UK
Ph.D. in Computer Science 2024 - 2028 *(expected)*
- Advisor: Prof. Yu Guan
- Research area: Deepfake Detection

Department of Mathematics, Northeastern University Liaoning, China
B.S. in Mathematics and Applied Mathematics 2020 - 2024
- GPA: 90.44/100.00, Rank: 8/60,
- Core Courses: Mathematical Modeling, Data Structure, Opsearch, Machine Learning

PUBLICATIONS

1. **Xiaoman Lu**, Ran Lu, Wenhao Zhao, Erbin Ma. Facial image inpainting for big data using an effective attention mechanism and a convolutional neural network. *Frontiers in Neurorobotics*, 2023.

2. **Xiaoman Lu**, Ran Lu, Wenhao Zhao, Erbin Ma, Hegui Zhu. Image Inpainting Generation Adversarial Network Based on Attention Mechanism. *2022 IEEE 5th International Conference on Automation, Electronics and Electrical Engineering (AUTEEE)*, 2022.

3. Baohua Shen, **Xiaoman Lu**, Juan Jiang, Daoguo Li. Modeling the emitted carbon dioxide and monoxide gases in the gasification process using optimized hybrid machine learning models. *Chemical Product and Process Modeling*, 2024.

PROJECTS

Research on Image Information Hiding Technology Based on Deep Learning
National Innovative Training Program for Undergraduates of China 2021.12 - 2023.04

Intelligent face image processing based on attention mechanism and GAN
Challenge Cup-National College Student Academic Works Competition 2023.1 - 2023.12

INTERNSHIPS

Intelligence Indeed Tech Ltd. | Hangzhou, China 2023.07 - 2023.08
- Developed a web crawler program to gather user reviews.
- Integrated CRNN into a CAPTCHA recognition model.

Neusoft Corporation Ltd. | Shenyang, China 2022.07 - 2022.08
- Develop engaging content for cross-border e-commerce platforms.
- Implemented front-end features for the automobile Hi-Map Project.

AWARDS AND HONORS

- **Outstanding Graduate Student Award**, Northeastern University, 2024.06
- **First Prize**, "Challenge Cup" Curricular Academic Competition 2023.12
- **Second Prize**, Chinese Collegiate Computing Competition 2023.05
- **Honorable Mention**, the Mathematical Contest in Modeling (MCM) 2023.02
- **First Class Academic Scholarship**, Northeastern University 2021.12

SKILLS

Languages: Mandarin Chinese (Native), English (Fluent, IELTS 7.0)

Programming: Python, C++, MATLAB, SQL, R, HTML, LaTeX.

TEACHING EXPERIENCES

Teaching Assistant: 24/25, UG3 CS355 Digital Forensics, DCS, University of Warwick,
24/25, UG1 CS133 Professional Skills, DCS, University of Warwick,