

XIAOMAN LU PH.D. STUDENT

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EDUCATION	<p>Department of Computer Science, University of Warwick Coventry, UK <i>Ph.D. in Computer Science</i> 2024 - 2028 (<i>expected</i>)</p> <ul style="list-style-type: none">• Advisor: Prof. Yu Guan• Research area: Deepfake Detection <p>Department of Mathematics, Northeastern University Liaoning, China <i>B.S. in Mathematics and Applied Mathematics</i> 2020 - 2024</p> <ul style="list-style-type: none">• GPA: 90.44/100.00, Rank: 8/60.• Core Courses: Mathematical Modeling, Data Structure, Opsearch, Machine Learning
PUBLICATIONS	<ol style="list-style-type: none">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. <i>Frontiers in Neurorobotics</i>, 2023.2. Xiaoman Lu, Ran Lu, Wenhao Zhao, Erbin Ma, Hegui Zhu. Image Inpainting Generation Adversative Network Based on Attention Mechanism. <i>2022 IEEE 5th International Conference on Automation, Electronics and Electrical Engineering (AUTEED)</i>, 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. <i>Chemical Product and Process Modeling</i>, 2024.
PROJECTS	<p>Research on Image Information Hiding Technology Based on Deep Learning <i>National Innovative Training Program for Undergraduates of China</i> 2021.12 - 2023.04</p> <p>Intelligent face image processing based on attention mechanism and GAN <i>Challenge Cup-National College Student Academic Works Competition</i> 2023.1 - 2023.12</p>
INTERNSHIPS	<p>Intelligence Indeed Tech Ltd. Hangzhou, China 2023.07 - 2023.08</p> <ul style="list-style-type: none">• Developed a web crawler program to gather user reviews.• Integrated CRNN into a CAPTCHA recognition model. <p>Neusoft Corporation Ltd. Shenyang, China 2022.07 - 2022.08</p> <ul style="list-style-type: none">• Developed engaging content for cross-border e-commerce platforms.• Implemented front-end features for the automobile Hi-Map Project.
AWARDS AND HONORS	<ul style="list-style-type: none">• 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	<p>Languages: Mandarin Chinese (Native), English (Fluent, IELTS 7.0)</p> <p>Programming: Python, C++, MATLAB, SQL, R, HTML, TeX\LaTeX.</p>
TEACHING EXPERIENCES	<p>Teaching Assistant: 24/25, UG3 CS355 Digital Forensics, DCS, University of Warwick, 24/25, UG1 CS133 Professional Skills, DCS, University of Warwick.</p>