

XIAOMAN LU PH.D. STUDENT

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EDUCATION	Department of Computer Science, University of Warwick <i>Ph.D. in Computer Science</i> <ul style="list-style-type: none">• Advisor: Prof. Yu Guan• Research area: Deepfake Detection	Coventry, UK 2024 - 2028 (<i>expected</i>)
	Department of Mathematics, Northeastern University <i>B.S. in Mathematics and Applied Mathematics</i> <ul style="list-style-type: none">• GPA: 90.44/100.00, Rank: 8/60 (<i>Top 15%</i>)• Core Courses: Mathematical Modeling, Data Structure, Opsearch, Machine Learning	Liaoning, China 2020 - 2024
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 (AUTEEE)</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	Research on Image Information Hiding Technology based on Deep Learning <i>National Innovative Training Program for Undergraduates of China</i> 2021.12 - 2023.04	
	Intelligent Face Image Processing based on Attention Mechanism and GAN <i>Challenge Cup-National College Student Academic Works Competition</i> 2023.1 - 2023.12	
INTERNSHIPS	Intelligence Indeed Tech Ltd. Hangzhou, China <ul style="list-style-type: none">• Developed a web crawler program to gather user reviews.• Integrated CRNN into a CAPTCHA recognition model.	2023.07 - 2023.08
	Neusoft Corporation Ltd. Shenyang, China <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.	2022.07 - 2022.08
AWARDS AND HONORS	<ul style="list-style-type: none">• Outstanding Graduate Student Award, Northeastern University (<i>Top 8%</i>)• First Prize, “Challenge Cup” Curricular Academic Competition (<i>Top 5%</i>)• Second Prize, Chinese Collegiate Computing Competition (<i>Top 10%</i>)• Honorable Mention, the Mathematical Contest in Modeling (<i>Top 30%</i>)• First Class Academic Scholarship, Northeastern University (<i>Top 3%</i>)	2024.06 2023.12 2023.05 2023.02 2021.12
SKILLS	Languages: Mandarin Chinese (Native), English (Fluent) Programming: Python, C++, MATLAB, SQL, R, HTML, L ^A T _E X.	
TEACHING EXPERIENCES	Teaching Assistant: 24/25, UG3 CS355 Digital Forensics, DCS, University of Warwick, 24/25, UG1 CS133 Professional Skills, DCS, University of Warwick.	