

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 (<i>Top 15%</i>)• 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 (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	<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 (<i>Top 8%</i>) 2024.06• First Prize, “Challenge Cup” Curricular Academic Competition (<i>Top 5%</i>) 2023.12• Second Prize, Chinese Collegiate Computing Competition (<i>Top 10%</i>) 2023.05• Honorable Mention, the Mathematical Contest in Modeling (<i>Top 30%</i>) 2023.02• First Class Academic Scholarship, Northeastern University (<i>Top 3%</i>) 2021.12
SKILLS	<p>Languages: Mandarin Chinese (Native), English (Fluent)</p> <p>Programming: Python, C++, MATLAB, SQL, R, HTML, \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>