

EDUCATION	<div>Department of Computer Science, University of Warwick <i>Ph.D. in Computer Science</i> • Advisor: Prof. Yu Guan • Research area: Deepfake Detection</div> <div>Department of Mathematics, Northeastern University <i>B.S. in Mathematics and Applied Mathematics</i> • GPA: 90.44/100.00, Rank: 8/60. • Core Courses: Mathematical Modeling, Data Structure, Opsearch, Machine Learning</div>	<div>Coventry, UK 2024 - 2028 (<i>expected</i>)</div> <div>Liaoning, China 2020 - 2024</div>
PUBLICATIONS	<div>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.</div> <div>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.</div> <div>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.</div>	
PROJECTS	<div>Research on Image Information Hiding Technology based on Deep Learning <i>National Innovative Training Program for Undergraduates of China</i> 2021.12 - 2023.04</div> <div>Intelligent Face Image Processing based on Attention Mechanism and GAN <i>Challenge Cup-National College Student Academic Works Competition</i> 2023.1 - 2023.12</div>	
INTERNSHIPS	<div>Intelligence Indeed Tech Ltd. Hangzhou, China • Developed a web crawler program to gather user reviews. • Integrated CRNN into a CAPTCHA recognition model.</div> <div>Neusoft Corporation Ltd. Shenyang, China • Developed engaging content for cross-border e-commerce platforms. • Implemented front-end features for the automobile Hi-Map Project.</div>	<div>2023.07 - 2023.08</div> <div>2022.07 - 2022.08</div>
AWARDS AND HONORS	<div>• Outstanding Graduate Student Award, Northeastern University, 2024.06</div> <div>• First Prize, “Challenge Cup” Curricular Academic Competition 2023.12</div> <div>• Second Prize, Chinese Collegiate Computing Competition 2023.05</div> <div>• Honorable Mention, the Mathematical Contest in Modeling (MCM) 2023.02</div> <div>• First Class Academic Scholarship, Northeastern University 2021.12</div>	
SKILLS	<div>Languages: Mandarin Chinese (Native), English (Fluent, IELTS 7.0)</div> <div>Programming: Python, C++, MATLAB, SQL, R, HTML, TeXTeX.</div>	
TEACHING EXPERIENCES	<div>Teaching Assistant: 24/25, UG3 CS355 Digital Forensics, DCS, University of Warwick,</div> <div>24/25, UG1 CS133 Professional Skills, DCS, University of Warwick.</div>	