

CONTACT
INFORMATION

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RESEARCH
INTERESTS

Human Factors, Human-Computer Interaction (HCI), Creativity Support, Behaviour Change, Dynamical/Adaptive Systems, Machine Learning (ML)

EDUCATION

Chalmers University of Technology, Gothenburg, Sweden

M.Sc. in Complex Adaptive Systems (Track: ML)

Aug. 2023 - Aug. 2025

Advisor: Jordanka Kovaceva; Mats Viberg

The University of Western Ontario, London, Canada

Software Engineering (2022 Fall Graduate term)

Sept. 2022 - Dec. 2022

GPA: 93%

Nanjing University of Aeronautics and Astronautics, Nanjing, China

B.Eng. in Automation Engineering

Sept. 2018 - Jun. 2022

Concentration: Excellence Program; Advisor: Ningyun Lu

ACADEMIC
EXPERIENCE

Vehicle Safety Group, Chalmers, Gothenburg, Sweden

Research Assistant (Advisor: Yuqing Zhao)

Oct. - Nov. 2025

Conducted a driving simulation study on **driving behavior** with European adults; Collected vehicle, steering & acceleration, eye-tracking data to analyze attention and ran participant studies.

Computer Vision Group, Zenseact AB, Gothenburg, Sweden

Master Thesis Worker (Advisor: Mats Viberg)

Jan. - Jun. 2025

Developed clustering algorithms for non-uniform LiDAR point clouds (**adaptive-resolution sensors**); Achieved improved accuracy with fewer over/under-segmentation and stability in diverse scenarios.

Vehicle Safety Group, Chalmers, Gothenburg, Sweden

Research Assistant (Supervisor: Jordanka Kovaceva)

Jun. - Oct. 2024

Automated large-scale crash narrative translation; Applied pre-trained **LLMs** for structured information extraction, enabling per-vehicle collision type inference from free-text reports.

ViSeer Lab, ShanghaiTech University, Remote, Sweden

Research Assistant (Advisor: Quan Li)

Spring 2023 & Spring 2024

Systems for visual analytics of **game algorithms** and *creativity support tools* for **game storytelling**.

- Developed and evaluated a visual analytics framework for in-game friend recommendations, supporting balance of similarity and diversity and adjustment based on player behavior.
- Developed and evaluated an in-game mod for automatic clue capture and classification, supporting interactive story interpretation, and conducted a study on effectiveness and usability.

Computer Vision Division, FAW-Volkswagen Automotive Co., Shanghai, China

Research Intern (Advisor: Ningyun Lu)

2021-2022

Applied **camera fusion** and **ML perception** to automotive workshop intrusion systems, lowering misjudgment to 0.095%.

Nanjing University of Aeronautics and Astronautics, Nanjing, China,

Research Assistant (Advisor: Xin Yang)

2021

Constructed the node map of pedestrian trajectory features and output using prediction period.

PUBLICATIONS	<p>Xiyuan Wang, Yifan Cao, Junjie Xiong, Sizhe Chen, Wenxuan Li, Junjie Zhang, Quan Li. ClueCart: Supporting Game Story Interpretation and Narrative Inference from Fragmented Clues. In <i>ACM CHI Conference on Human Factors in Computing Systems</i>. CHI 2025 · Full Paper · Best Paper Award 🏆</p> <p>Xiyuan Wang, Ziang Li, Sizhe Chen, Wei Wan, Xingxing Xing, Quan Li. Prefer2SD: A Human-in-the-Loop Approach to Balancing Similarity and Diversity in In-Game Friend Recommendations. In <i>ACM Conference on Intelligent User Interfaces</i>. IUI 2025 · Full Paper</p>
PATENT	<p>Pedestrian Trajectory Prediction Method Based on Graph Neural Network with Attention Mechanism, Copyright granted by National Copyright Administration of the People's Republic of China. Registration Number: 202111171633.5, Release Date: 2022/01/04.</p>
SKILLS	<p>Research: HCI, Quantitative/Qualitative Research, Iterative Design, Human Subject Studies.</p> <p>Program Language: Python, C/C#.</p> <p>Software: MATLAB, Lingo, Julia, R, Creo, NI Multisim, Gazebo, ROS, Databricks & Spark ML, Axure RP, Adobe Photoshop, Flutter, Git.</p> <p>Language: English, Mandarin, Swedish(A1-beginner), L^AT_EX.</p>
REFERENCES	<ol style="list-style-type: none"> 1) Jordanka Kovaceva, Researcher, Mechanics and Maritime Sciences, Chalmers University of Technology, Sweden Phone: +46 (0)31 772 1266 Email: jordanka.kovaceva@chalmers.se 2) Yuqing Zhao, Assistant Professor, Mechanical Systems Engineering, Nagoya University, Japan Phone: +81 (0)52 788 6233 Email: yuqing.zhao@mae.nagoya-u.ac.jp