

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)
Advisor: Jordanka Kovaceva; Mats Viberg

Aug. 2023 - Aug. 2025

The University of Western Ontario, London, Canada

Software Engineering (2022 Fall Graduate term)
GPA: 93%

Sept. 2022 - Dec. 2022

Nanjing University of Aeronautics and Astronautics, Nanjing, China

B.Eng. in Automation Engineering
Concentration: Excellence Program; Advisor: Ningyun Lu

Sept. 2018 - Jun. 2022

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

Xiyuan Wang, Yifan Cao, Junjie Xiong, **Sizhe Chen**, Wenxuan Li, Junjie Zhang, Quan Li. **Clue-Cart: Supporting Game Story Interpretation and Narrative Inference from Fragmented Clues**. In *ACM CHI Conference on Human Factors in Computing Systems*.
CHI 2025 · Full Paper · Best Paper Award 🎖

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 *ACM Conference on Intelligent User Interfaces*.
IUI 2025 · Full Paper

PATENT

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.

SKILLS

Research: HCI, Quantitative/Qualitative Research, Iterative Design, Human Subject Studies.

Program Language: Python, C/C#.

Software: MATLAB, Lingo, Julia, R, Creo, NI Multisim, Gazebo, ROS, Databricks & Spark ML, Axure RP, Adobe Photoshop, Flutter, Git.

Language: English, Mandarin, Swedish(A1-beginner), LATEX.

REFERENCES

- 1) **Jordanka Kovaceva**, Researcher, Mechanics and Maritime Sciences, Chalmers University of Technology, Sweden
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- 2) **Yuqing Zhao**, Assistant Professor, Mechanical Systems Engineering, Nagoya University, Japan
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