

**CONTACT INFORMATION**

✉ Gibraltarvallen 2, 412 58 Gothenburg, Sweden  
📞 +46 (0)76 244 2396

**i** [LinkedIn](#)  
✉ [chensizhesh@outlook.com](mailto:chensizhesh@outlook.com)

**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  
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