

Yijie Li

Tel.: (+86) 18310230286 E-mail: yijieli2025@u.northwestern.com

Education

Northwestern University, McCormick School of Engineering Evanston, IL
MSc in Artificial Intelligence Sep. 2023 ~ Dec. 2024 (Expected)

University College Dublin (UCD), Beijing-Dublin International College Dublin, Ireland
BSc in Software Engineering; GPA: 3.79/4.2 Sep. 2019 ~ Jun. 2023

Beijing University of Technology (BJUT), Beijing-Dublin International College Beijing, China
BEng in Software Engineering; GPA: 3.74/4.2 Sep. 2019 ~ Jun. 2023

Work Experience

Undergraduate Researcher, University College Dublin Sep. 2021 ~ Jul. 2023

Responsibility & Accomplishments:

- Conducted research related to driving scene data processing and 3D vision
- Studied and developed applications of computer vision in meteorology
- Two papers were published (listed in the [Publications](#) section)

Research Intern, Tsinghua University Jan. 2022 ~ Feb. 2023

Responsibility & Accomplishments:

- Conducted research about generative adversarial networks and image attribute manipulation
- Reproduced paper ‘Denoising Diffusion Probabilistic Models’ via PaddlePaddle
- Introduced a new efficient StyleGAN2-based image attribute manipulation method

Publications

- [1] H. Wang, Y. Li, S. Xi, S. Wang, M. S. Pathan, S. Dev, “AMDCNet: An Attentional Multi-Directional Convolution Network for Stereo Matching”, *Displays*, Elsevier, vol. 74, pp.102243, Jun. 2022.
- [2] H. Wang, B. Zhu, Y. Li, K. Gong, Z. Wen, S. Wang, S. Dev, “SYGNet: A SVD-YOLO based GhostNet for Real-time Driving Scene Parsing”, 29th IEEE International Conference on Image Processing (ICIP), pp. 2701-2705, Jun. 2022.

Honors & Awards

- BJUT Scholarships for Excellent Innovation & Entrepreneurship
- BJUT Merit Scholarships for Academic Excellence
- BJUT College Merit Scholarships for Academic Excellence
- Beijing-Dublin International College Merit Scholarships for Academic Excellence

Interests & Skills

- Language proficiency: Chinese, English (IELTS: 7.0 | L7.5, R7.5, W6.0, S6.0)
- Programming language: Python, C/C++, JAVA, JavaScript, HTML, MATLAB, Linux, LATEX
- Frameworks & Tools: PyTorch, Tensorflow, PaddlePaddle, CUDA, Git, Anaconda, Flask
- Libraries: NumPy, Pandas, Pillow, OpenCV, OpenBLAS, Pybind, Matplotlib, Albumentations