Dongheng Lin

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Education

University of Illinois at Urbana Champaign — *Illinois, United States*

MENG COMPUTER ENGINEERING, GPA: 3.94/4.0 — *Aug. 2023 – Dec. 2024*

University of Liverpool & Xi'an Jiaotong-Liverpool University — *Liverpool, United Kingdom*

BSc (Hons) Information and Computing Science, GPA WES GPA: 3.91/4.0, Ranked: 6/295 — *Sep. 2019 – Jun. 2023*

Selected Publications

A Unified Reasoning Framework for Holistic Zero-Shot Video Anomaly Analysis — *San Diego, USA*

NEURIPS 2025

- **Dongheng Lin**, Mengxue Qu, Kunyang Han, Jianbo Jiao, Xiaojie Jin, Yunchao Wei. Available at: `https://openreview.net/pdf?id=f1MYOG4iDG`.

What Time Tells Us? An Explorative Study of Time Awareness Learned from Static Images — *Openreview*

TMLR 2025

- **Dongheng Lin**[*], Han Hu[*], Jianbo Jiao. Available at: `https://openreview.net/pdf?id=f1MYOG4iDG`.

SPSS: A Salience-Based Poisoning Selection Strategy for Selecting Backdoor Attack Victims — *Yokohama, Japan*

IJCNN 2024

- Zihan Lyu[*], **Dongheng Lin**[*], Shengkai Sun, Ruiming Zhang, Jie Zhang[†]. Available at: `https://ieeexplore.ieee.org/document/10650242`.

Novel Conditional Metadata Embedding Data Preprocessing Method

- Juntuo Wang[1], Qiaochu Zhao[1], **Dongheng Lin**[1], Erick Purwanto[†], Ka Lok Man[2]. "Novel Conditional Metadata Embedding Data Preprocessing Method." *2022 International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery (CyberC)*, Suzhou, China, 2022, pp. 303-311, doi: 10.1109/CyberC55534.2022.00057. Available at: `https://ieeexplore.ieee.org/document/10090205/`.

Work Experience

Allsee Technology Co., Ltd. — *Birmingham, UK*

SOFTWARE/RESEARCH ENGINEER — *Aug. 2025 - Now*

- Work as a software engineer contributing on the company Enterprise Resource Planning (ERP) system and customer Content Management System.
- Also leads a research project jointly funded by *Allsee Technologies* and *University of Birmingham* on video analysis and multimodality.
- Tech stack: AWS, FastAPI, Docker.

Beijing Jiaotong University — *Remote*

RESEARCH INTERN — *Jan 2025.- July 2025*

- Worked as a research intern under supervision of Prof. Yunchao Wei.
- The primary topic of the research is about cockpit vision intelligence for advanced vehicle.
- This internship yielded a NeurIPS paper on zero-shot anomaly analysis. In additional to this, we also built a new dataset (Ongoing).

The MIx Group, University of Birmingham — *Remote*

RESEARCH INTERN — *Dec. 2023 - Jul. 2025*

- Worked under the supervision of Prof. Jianbo Jiao, with a focus on metadata-aware feature engineering and representation learning.
- This internship yielded a TMLR paper on time-awareness learnt from static images.

Wensi Haihui Information Technology Co., Ltd. (Pactera) — *Wuxi, China*

BACK-END INTERN (FULL-TIME) — *Jun. 2021 - Sep. 2021*

- Worked as a full-stack developer in a collaborative team, contributing to both front-end and back-end development.
- Tech stack: Stringboot, Vue.js, MySQL.

Skills

Programming   Java, C++, JavaScript, HTML, CSS, MySQL, Python, C#, LaTeX, Golang

Miscellaneous   Linux, Shell (Bash/Zsh), Android, Unity(VR), Git, PyTorch, SpringBoot, OpenGL, Vue.js, ProtoBuf, Docker, nginx, AWS, FastAPI