

# Dongheng Lin

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## Education

### University of Birmingham

PHD. COMPUTER SCIENCE

West Midlands, United Kingdom

Aug. 2025 - Now

### University of Illinois at Urbana Champaign

MENG COMPUTER ENGINEERING, GPA: 3.94/4.0

Illinois, United States

Aug. 2023 – Dec. 2024

### University of Liverpool & Xi'an Jiaotong-Liverpool University

BSc (HONS) INFORMATION AND COMPUTING SCIENCE, GPA WES GPA: 3.91/4.0, RANKED: 6/295

Liverpool, United Kingdom

Sep. 2019 – Jun. 2023

## Selected Publications

### A Unified Reasoning Framework for Holistic Zero-Shot Video Anomaly Analysis

NEURIPS 2025

San Diego, USA

- 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

TMLR 2025

Openreview

- 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

IJCNN 2024

Yokohama, Japan

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

## Work Experience

### Allsee Technology Co., Ltd.

SOFTWARE/RESEARCH ENGINEER

Birmingham, UK

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

RESEARCH INTERN

Remote

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 addition to this, we also built a new dataset (Ongoing).

### The Mlx Group, University of Birmingham

RESEARCH INTERN

Remote

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)

BACK-END INTERN (FULL-TIME)

Wuxi, China

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