

# Tianye (Jerry) Ding

## Curriculum Vitae

### PERSONAL INFORMATION

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Homepage: [jerrygcding.github.io](https://jerrygcding.github.io)  
GitHub: <https://github.com/JerryGCDing>  
Google Scholar: <https://scholar.google.com/citations?user=-hFUtCcAAAAJ>

### EDUCATION

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**B.S., Computer Science** 09/2020 - 04/2024  
Khoury College of Computer Sciences, Northeastern University

### EXPERIENCE

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**Research Assistant** 01/2023 - Present  
Visual Intelligence Lab at Northeastern, Northeastern University  
Conduct computer vision research works under the supervision of Professor Huaizu Jiang.

**Machine Learning Research Engineer Intern** 08/2022 - 12/2022  
Deep Ivy Inc.  
Develop and maintain open-source unified machine learning framework Ivy.  
Project repository: [github.com/unifyai/ivy](https://github.com/unifyai/ivy)

### PUBLICATIONS

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\* or † represents equal contribution or equal advising, depending on the roles of the authors.

#### Preprints

**Tianye Ding\***, Yiming Xie\*, Yiqing Liang\*, and Moitrey Chatterjee, Pedro Miraldo, Huaizu Jiang  
*LASER: Layer-wise Scale Alignment for Training-Free Streaming 4D Reconstruction*  
arXiv, 2025.

#### Publications

Fangrui Zhu\*, Hanhui Wang\*, Yiming Xie, Jing Gu, **Tianye Ding**, Jianwei Yang, Huaizu Jiang  
*Struct2D: A Perception-Guided Framework for Spatial Reasoning in MLLMs*  
Neural Information Processing Systems (NeurIPS), 2025.

**Tianye Ding\***, Hongyu Li\*, Huaizu Jiang  
*ODTFormer: Efficient Obstacle Detection and Tracking with Stereo Cameras Based on Transformer*  
IEEE/RSJ International Conference on Intelligent Robots and Systems (**IROS**), 2024.  
Project homepage: [jerrygcding.github.io/odtformer](https://jerrygcding.github.io/odtformer)

### PRESENTATIONS

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**Tianye Ding**, Hongyu Li, and Huaizu Jiang  
*ODTFormer: Efficient Obstacle Detection and Tracking with Stereo Cameras Based on Transformer*  
Spotlight Presentation at IROS 2024 Workshop on Planning, Perception and Navigation for Intelligent Vehicles, Abu Dhabi, UAE, October 2024.

### AWARDS AND HONORS

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**Magna Cum Laude**  
04/2024

Northeastern University

**Dean's List**

2021 - 2023

Northeastern University

**TEACHING EXPERIENCE**

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**CS 2510 Fundamentals of Computer Science II**

01/2022 - 05/2022

Teaching Assistant

Khoury College of Computer Sciences, Northeastern University

**SKILLS**

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**Languages**

Python | Java | C++ | C | LaTeX | MySQL

**Libraries**

PyTorch | NumPy | TensorFlow | OpenCV | OpenGL

**Systems**

Windows | Linux | macOS

**Applications**

Git | Slurm | JetBrains Suite | Adobe Creative Suite