# Mei Li


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https://limei0818.github.io/

https://scholar.google.com/citations?user=dT0MuV0AAAAJ

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## Education

**Shanghai Jiao Tong University**, Shanghai, China 2023.9 – Now

*Master Candidate* in Computer Science and Technology
Supervisor: Prof. Hongtao Lu @ BCMI Lab, Department of Computer Science GPA: 3.81/4.0
Main courses: Neural Network Theory and Applications (A+), Image Processing and Machine Vision (A+), Intelligent Computing System (A+)

**East China Normal University**, Shanghai, China 2014.9 – 2018.6

*Bachelor of Science* in Mathematics and Applied Mathematics
Main cources: Abstract Algebra (A), Complex Analysis (A), Combinatorics (A), Modern Mathematics (A)

## Selected Research Experiences

**Federated Continual Learning (Expect to be submitted to ICLR2026)** 2025.2 – Now

Keywords: Federated Learning, Continual Learning
Federated continual learning with gradient projection allows multiple clients to collaboratively train a global model on sequential tasks without forgetting old knowledge. It works by having clients project their gradients onto a subspace that minimizes interference with previously learned information, effectively balancing stability (retaining old knowledge) and plasticity (learning new tasks) despite data heterogeneity.

**Continual Learning with Adaptive Model Merging (Accepted by ICML2025)** 2024.6 – 2025.1

Keywords: Continual Learning, Catastrophic Forgetting, Model Merging
Continual Learning (CL) aims to progressively acquire knowledge from sequential tasks while preventing catastrophic forgetting. A fundamental challenge in CL involves achieving an optimal balance between stability (preserving previously learned knowledge) and plasticity (adapting to new tasks). We investigate how model merging can improve this stability-plasticity trade-off and offer theoretical analysis that highlights its advantages.

**Semi-supervised Orientation Estimation of Objects (CVIU Major revision)** 2024.5 – 2024.9

Keywords: Orientation Estimation, Semi-supervised Learning
Semi-Supervised Orientation Estimation aims to predict 3D orientations of objects from 2D images using only a limited set of labeled data, leveraging abundant unlabeled samples to improve learning efficiency. We investigate the effectiveness of curriculum-guided pseudo-labeling, enhancing label reliability and improving semi-supervised rotation regression performance.

## Publications

1. **BECAME: BayEsian Continual Learning with Adaptive Model MErging**
   **Mei Li**, Yuxiang Lu, Qinyan Dai, Suizhi Huang, Yue Ding, Hongtao Lu
   International Conference on Machine Learning. **(ICML 2025)**
2. **HACMatch: Semi-Supervised Rotation Regression with Hardness-Aware Curriculum Pseudo Labeling**
   **Mei Li**, Huayi Zhou, Suizhi Huang, Yuxiang Lu, Yue Ding, Hongtao Lu
   Major Revision. (CVIU)

3. **NT-LLM: A Novel Node Tokenizer for Integrating Graph Structure into Large Language Models**
   Yanbiao Ji, Chang Liu, Xin Chen, Yue Ding, Dan Luo, **Mei Li**, Wenqing Lin, Hongtao Lu
   Arxiv preprint.

## ♡ Honors and Awards

Merit Student of SJTU 2023-2024
First-Class Master's Academic Scholarship 2023
Excellent Student Scholarship 2015-2017

## ☑ Services

**2025** CVPR, IJCAI, ICCV Reviewer
**2024.09 - 2025.01** TA, Computer Vision and Image Processing, SEIEE, SJTU
**2024.02 - 2024.07** TA, Data Structure, SEIEE, SJTU

## ⚙ Skills

**Programming Languages:** Python, C/C++
**Development:** PyTorch, OpenCV, Git, CUDA
**English Proficiency:** CET6: 531