Mei Li

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🔗 https://**.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 catas-
trophic 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 advan-
tages.

Semi-supervised Orientation Estimation of Objects (Major revision stage of CVIU)   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 in-
vestigate 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 Label-
   ing**

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

♡ Honors and Awards

Merit Student of SJTU	2023-2024
First-Class Master's Academic Scholarship	2023
Excellent Student Scholarship	2015 & 2016 & 2017

⚙ Skills

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