

# Rongyu Zhang

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## EDUCATION BACKGROUND

08/2017-07/2021 Beijing University of Posts and Telecommunications (BUPT)	Bachelor of Eng./Man.
School of London Queen Mary, supervised by Chuang Zhang and Ming Wu	GPA: 3.4
08/2021-03/2023 The Chinese University of Hong Kong, Shenzhen (CUHKSZ)	Master of Phil.
School of Science and Engineering, supervised by Fangxin Wang	GPA: 3.5
09/2023-06/2026 (expected) Nanjing University (NJU)	Dual Doctor of Phil.
School of Electric Science and Engineering, supervised by Yuan Du	GPA: 3.5
09/2023-06/2026 (expected) The Hong Kong Polytechnic University (PolyU)	Dual Doctor of Phil.
School of Computing, supervised by Dan Wang	GPA: 3.5

## RESEARCH INTERESTS

- ♣ Efficient and Generalization Learning towards Open-world Multimodal System (**Embodied system, Federated learning**)
- ♠ Rongyu has published over **10 papers in top-tier CCF-A and CAS-Q1** international conferences and journals such as Nature Computational Science, CVPR, AAAI, TMC, and TCSVT, etc.

## SELECTED PUBLICATIONS

- *Implicit Neural Image Field for Biological Microscopy Image Compression*  
Gaole Dai, **Rongyu Zhang**, Qingbo wuwu, et.al Nature Computational Science 2025 (**CAS-Q1**)
- *Unimodal Training-Multimodal Prediction: Cross-modal Federated Learning with Hierarchical Aggregation*  
**Rongyu Zhang**, Xiaowei Chi, Wenyi Zhang, et. al. IEEE TMC 2025 (**CCF-A**)
- *RepCaM++: Exploring Transparent Visual Prompt with Inference-time Re-parameterization for Neural Video Delivery*  
**Rongyu Zhang**, Xize Duan, Jiaming Liu, Li Du, Yuan Du, Dan Wang, et. al. IEEE TMC 2025 (**CCF-A**)
- *BEVUDA++: Geometric-aware Unsupervised Domain Adaptation for Multi-View 3D Object Detection*  
**Rongyu Zhang**, Jiaming Liu, Xiaoqi Li, Xiaowei Chi, Dan Wang, Li Du, et. al. IEEE TCSVT 2025 (**CAS-Q1**)
- *VeCAF: Vision-language Collaborative Active Finetuning with Training Objective Awareness*  
**Rongyu Zhang**, Zefan Cai, Huanrui Yang, Zidong Liu, Denis Gudovskiy, et. al. ACM MM 2024 (**CCF-A**)
- *Multi-level Personalized Federated Learning on Heterogeneous and Long-Tailed Data*  
**Rongyu Zhang**, Yun Chen, Chenrui Wu, Fangxin Wang, Bo Li IEEE TMC 2024 (**CCF-A**)
- *Efficient Deweather Mixture-of-Experts with Uncertainty-aware Feature-wise Linear Modulation*  
**Rongyu Zhang**, Yulin Luo, Jiaming Liu, Huanrui Yang, Zhen Dong, Denis Gudovskiy, et. al. AAAI 2024 (**CCF-A**)

## INTERN EXPERIENCE

08/2024-04/2025	Beijing Academy of Artificial Intelligence, BAAI, supervised by Shanghang Zhang
11/2020-05/2021	AI Lab, LENOVO Research Institute, supervised by Jiangtao Gong
09/2022-02/2023	OPPO Research Institute, supervised by Yandong (Eric) Guo

## HONORS & AWARDS

- **"Endeavor Scholarship — Integrated Circuit Talent Program"**, China Education Development Foundation (CEDF)
- The First **"Young Elite Scientist Sponsorship Program (Ph.D.)"**, China Association for Science and Technology (CAST)
- Jiangsu Province Graduate Research and Practical Innovation Project
- 2nd place of the ICCV SHIFT Challenge 2023 - Continuous Test Adaptation for Semantic Segmentation