

Rongyu Zhang

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EDUCATION BACKGROUND

- 08/2017-07/2021 **Beijing University of Posts and Telecommunications (BUPT)** **Bachelor of Eng./Man.**
- International College: the Joint Program of BUPT and Queen Mary University of London(QMUL)**
- Selected courses: Advanced programming, Data mining, Database, Data structure **GPA: 3.4**
- 08/2021-03/2023 **the Chinese University of Hong Kong, Shenzhen (CUHKSZ)** **Master of Phil.**
- School of Science and Engineering, major in Computer and Information Engineering**
- Selected courses: Matrix analysis, Machine learning and applications, Cloud computing **GPA: 3.5**
- 09/2023-06/2027 **Nanjing University(NJU)** **Doctor of Phil.**
- School of Electric Science and Engineering** **GPA: /**

RESEARCH INTERESTS

- 3D Generalized Perception and Lightweighting for Large Multimodal Model
- Neural Video Delivery and Image Restoration/Super-resolution

PUBLICATIONS

- *Efficient Deweather Mixture-of-Experts with Uncertainty-aware Feature-wise Linear Modulation*
Rongyu Zhang, Yulin Luo, Jiaming Liu, Huanrui Yang, Zhen Dong, Denis Gudovskiy, Tomoyuki Okuno, Yohei Nakata, Kurt Keutzer, Yuan Du, Shanghang Zhang **AAAI 2024. (CCF-A)**
- *RepCaM: Re-parameterization Content-aware Modulation for Neural Video Delivery*
Rongyu Zhang, Lixuan Du, Jiaming Liu, Congcong Song, Fangxin Wang, Ming Lu, Xiaoqi Li, Yandong Guo, Shanghang Zhang **NOSSDAV 2023. (CCF-B)**
- *Cluster-driven GNN-based Federated Recommendation System with Biased Message Dropout*
Rongyu Zhang, Yun Chen, Chenrui Wu, Fangxin Wang **ICME 2023. (CCF-B)**
- *Efficient Personalized Federated Learning for IoT: Challenges, Opportunities and Solution*
Rongyu Zhang, Yun Chen, Chenrui Wu, Fangxin Wang, Jiangchuan Liu **Network 2023(JCR-Q1)**
- *Cloud-Device Collaborative Adaptation to Continual Changing Environments in the Real-world*
Yulu Gan, Mingjie Pan, **Rongyu Zhang**, Zijian Ling, Jiaming Liu, Lingran Zhao, Shanghang Zhang **CVPR 2023. (CCF-A)**
- *BEV-SAN: Accurate BEV 3D Object Detection via Slice Attention Networks*
Xiaowei Chi, Jiaming Liu, Ming Lu, **Rongyu Zhang**, Zhaoqing Wang, Yandong Guo, Shanghang Zhang **CVPR 2023. (CCF-A)**
- *FedAB: Truthful Federated Learning with Auction-based Combinatorial Multi-Armed Bandit*
Chenrui Wu, Yifei Zhu, **Rongyu Zhang**, Yun Chen, Fangxin Wang, Shuguang Cui **IOTJ 2023(JCR-Q1)**

INTERN EXPERIENCE

- 11/2020-05/2021 **AI Lab, LENOVO Research Institute, supervised by Jiangtao Gong**
- Optimize the ASR automatic speech recognition algorithm
 - Implement the speech dialogue system for Avator robot in Beijing Winter Olympics 2022
- 09/2022-02/2023 **OPPO Research Institute, supervised by Yandong(Eric) Guo**
- Utilizing super-resolution models for neural video delivery to reduce bandwidth consumption and computational costs
 - Exploring the multi-perspective BEV tasks and provide solutions for domain adaptation and OOD generalization
- 02/2023-06/2023 **Chiplego**
- Exploring the efficient MoE architecture for diverse weather removal tasks for open-world applications

LANGUAGE & COMPUTER SKILLS

- **English:** CET-6: 556 TOEFL:105(30/R+28/L+21/S+26/W) GRE:320(153/V+167/Q)+3.5/AW
- **Computer:** Skilled at C, C++, JAVA, python, Linux, etc.

HONORS & AWARDS

- Beijing University of Posts and Telecommunications third-class scholarship (2018-2020)
- Mathematical Contest in Model (MCM) Honorable Award
- ICCV 2023 workshop 2nd Place Winner Award for the challenge titled Continual Test-time Adaptation for Semantic Segmentation