

# Jijie Wu (武继杰)

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## 教育经历

### 兰州理工大学

- 本科：软件工程 2015.09 – 2019.06
- 硕士：计算机应用技术 2019.09 – 2012.06
- 博士在读（三年级）：制造业信息化系统 2022.09 – 至今
  - 导师：李晓旭教授
  - 研究方向：小样本图像分类、元学习、可解释深度学习

## 发表论文清单

### Highlights

- [1] **Jijie Wu**, Dongliang Chang, Aneeshan Sain, Xiaoxu Li\*, Zhanyu Ma, Jie Cao, Jun Guo, and Yi-Zhe Song, “Bi-Directional Ensemble Feature Reconstruction Network for Few-Shot Fine-Grained Classification,” IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**, **CCF A**, **IF:20.8**), 2024.
- [2] **Jijie Wu**, Dongliang Chang, Aneeshan Sain, Xiaoxu Li\*, Zhanyu Ma, Jie Cao, Jun Guo, and Yi-Zhe Song, “Bi-Directional Feature Reconstruction Network for Fine-grained Few-shot Image Classification,” in Association for the Advancement of Artificial Intelligence (**AAAI**, **Oral**, **CCF A**), 2023.
- [3] Xiaoxu Li, **Jijie Wu**, Zhuo Sun, Zhanyu Ma\*, Jie Cao and Jing-Hao Xue, “BSNet: Bi-Similarity Network for Few-shot Fine-grained Image Classification,” IEEE Transactions on Image Processing (**TIP**, **CCF A**, **IF:10.8**), 2021.
- [4] Zhuo Sun, **Jijie Wu**, Xiaoxu Li, Wenming Yang and Jing-Hao Xue, “Amortized Bayesian Prototype Meta-learning: A New Probabilistic Meta-learning Approach to Few-shot Image Classification,” Proceedings of the 24th International Conference on Artificial Intelligence and Statistics. (**AISTATS**, **CCF C**), 2021.

### 国际期刊

- [1] **Jijie Wu**, Dongliang Chang, Aneeshan Sain, Xiaoxu Li\*, Zhanyu Ma, Jie Cao, Jun Guo, and Yi-Zhe Song, “Bi-Directional Ensemble Feature Reconstruction Network for Few-Shot Fine-Grained Classification,” IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**, **IF:20.8**), 2024.
- [2] Xiaoxu Li, Qi Song, **Jijie Wu**, Rui Zhu, Zhanyu Ma, Jing-Hao Xue, “Locally-Enriched Cross-Reconstruction for Few-Shot Fine-Grained Image Classification,” IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**, **IF:8.3**), 2023.
- [3] Xiaoxu Li, **Jijie Wu**, Zhuo Sun, Zhanyu Ma\*, Jie Cao and Jing-Hao Xue, “BSNet: Bi-Similarity Network for Few-shot Fine-grained Image Classification,” IEEE Transactions on Image Processing (**TIP**, **IF:10.8**), 2021.

## 国际会议

- [1] Jiaming Zhang, Jijie Wu, Xiaoxu Li, “Visual semantic alignment network based on pre-trained ViT for few-shot image classification,” in Proceedings of The 16th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA, accepted), 2024.
- [2] Dongfei Chang, Jijie Wu, Xiaoxu Li, “Agent Attention Feature Reconstruction Network for Fine-Grained Few-Shot Image Classification,” in Proceedings of The 16th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA, accepted), 2024.
- [3] Jijie Wu, Dongliang Chang, Aneeshan Sain, Xiaoxu Li\*, Zhanyu Ma, Jie Cao, Jun Guo, and Yi-Zhe Song, “Bi-Directional Feature Reconstruction Network for Fine-grained Few-shot Image Classification,” in Association for the Advancement of Artificial Intelligence (AAAI, CCF A), 2023.
- [4] Xiaowei Guo, Jijie Wu, Kai Ren, Qi Song, and Xiaoxu Li, “Dual Feature Reconstruction Network Based on Few-Shot Image Classification,” in Proceedings of The 15th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA), 2023.
- [5] Zhuo Sun, Jijie Wu, Xiaoxu Li, Wenming Yang and Jing-Hao Xue, “Amortized Bayesian Prototype Meta-learning: A New Probabilistic Meta-learning Approach to Few-shot Image Classification,” Proceedings of the 24th International Conference on Artificial Intelligence and Statistics. (AISTATS, CCF C), 2021.
- [6] Yalan Li, Jijie Wu, “Cross-Domain Few-shot Classification through Diversified Feature Transformation Layers,” 2021 IEEE International Conference on Artificial Intelligence and Computer Applications (ICAICA), 2021.
- [7] Xiaoxu Li, Jintao Yan, Jijie Wu, Yuxin Liu, Xiaochen Yang and Zhanyu Ma, “Anti-noise Relation Network for Few-shot Learning,” in Proceedings of The 11th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA), 2020.
- [8] Xiaoxu Li, Jijie Wu, Dongliang Chang, Zhanyu Ma, and Jie Cao, “Mixed Attention Mechanism for Small-Sample Fine-grained Image Classification,” in Proceedings of The 11th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA), 2019.

## 中文期刊

- [1] 李晓旭, 刘忠源, 武继杰, 曹洁, 马占宇. 小样本图像分类的注意力全关系网络. 计算机学报 (CCF A), 2022.
- [2] 李晓旭, 安文娟, 武继杰, 李真, 张珂, 马占宇. 通道注意力双线性度量网络. 吉林大学学报, 2022.

## 申请专利

### 专利

- [1] 武继杰, 张志敏, 等. 一种基于特征扩散模型的图像分类方法及装置, CN116863239A, 2023.
- [2] 武继杰, 胥骁麟, 等. 一种基于类别相关特征重建的图像分类方法及装置, CN116863237A, 2023.
- [3] 武继杰, 冀璐琛, 等. 一种基于视觉迁移对齐的图像分类方法及装置, CN116863238A, 2023.
- [4] 古玲, 武继杰. 一种基于注意力机制的碳纤维丝道实时动态编号方法, CN116958739A, 2024.
- [5] 古玲, 武继杰. 一种基于卷积神经网络的碳纤维丝道识别与编号方法, CN116503615A, 2024.
- [6] 李晓旭, 郭紫杰, 刘俊, 武继杰, 等. 基于大边界贝叶斯原型学习的小样本图像分类方法及装置, CN114723998A, 2023.

## 证书与奖项

- 英语四、六级证书
- 获得兰州理工大学 2022 届优秀硕士论文奖

- 两次获得兰州理工大学一等奖学金
- 获得 2024 年博士研究生国家奖学金

## 科研服务

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### 审稿人

- NEUROCOMPUTING, 2021-至今
- IEEE Transactions on Neural Networks and Learning Systems, 2022-至今
- Association for the Advancement of Artificial Intelligenc (AAAI), 2023-至今
- IEEE Transactions on Circuits and Systems for Video Technology, 2024-至今
- Knowledge-Based Systems, 2024-至今
- Image and Vision Computing, 2024-至今
- ACM Multimedia (ACM MM), 2024-至今