# Jiayi Shen

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# Professional Summary \_\_\_\_

As a Ph.D. candidate at the University of Amsterdam, I focus on multi-task learning, developing models using probabilistic modeling, graphical learning, and meta-learning, specifically neural processes. My current work includes adapting multimodal foundation models and multi-task optimization. My Master's project experience encompasses transfer learning and zero-shot learning.

### Education \_

University van Amsterdam

Amsterdam

PhD in CS

June. 2020 - Sep. 2024

**Beihang University** 

Beijing

MS in EE

Sep. 2017 - Feb. 2020

**Beihang University** 

Beijing

BS in FF

Sep. 2013 - Jun. 2017

## **Publications**

- [1] Shen, Jiayi and Zhen, Xiantong and Wang, Cheems and Worring, Marcel "Episodic Multi-Task Learning with Heterogeneous Neural Processes," [NeurIPS, 2023.] Spotlight.
- [2] Shen, Jiayi and Xiao, Zehao and Zhen, Xiantong and Snoek, Cees and Worring, Marcel "Association Graph Learning for Multi-Task Classification with Category Shifts," [NeurIPS, 2022.]
- [3] Shen, Jiayi and Zhen, Xiantong and Worring, Marcel and Shao, Ling "Variational Multi-Task Learning with Gumbel-Softmax Priors," [NeurIPS, 2021.]
- [4] Xiao\*, Zehao and Shen\*, Jiayi and Zhen, Xiantong and Shao, Ling and Snoek, Cees "A Bit More Bayesian: Domain-Invariant Learning with Uncertainty." [ICML, 2021.] (co-first author)
- [5] Shen, Jiayi and Xiao, Zehao and Zhen, Xiantong and Zhang, Lei "Spherical Zero-Shot Learning," [IEEE Trans. CSVT, 2021.]
- [6] Shen, Jiayi and Wang, Haochen and Zhang, Anran and Qiu, Qiang and Zhen, Xiantong and Cao, Xianbin "Model-Agnostic Metric for Zero-Shot Learning," [WACV, 2020.]
- [7] Shen, Jiayi and Cao, Xianbin and Li, Yan and Xu, Dong "Feature Adaptation and Augmentation for Cross-Scene Hyperspectral Image Classification," [IEEE GRSL, 2018.]
- [8] Xiao, Zehao and Shen, Jiayi and Derakhshani, Mohammad Mahdi and Liao, Shencai and Snoek, Cees. "Any-Shift Prompting for Generalization over Distributions," [CVPR 2024]
- [9] Du, Yingjun and Shen, Jiayi and Zhen, Xiantong and Snoek, Cees "SuperDisco: Super-Class Discovery Improves Visual Recognition for the Long-Tail," [CVPR, 2023.]
- [10] Du, Yingjun and Shen, Jiayi and Zhen, Xiantong and Snoek, Cees "EMO: Episodic Memory Optimization for Few-Shot Meta-Learning," [*CoLLAs*, 2023.]
- [11] Wang, Haochen and Shen, Jiayi and Liu, Yongtuo and Gao, Yan and Gavves, Efstratios "NFormer: Robust Person Re-identification with Neighbor Transformer," [CVPR, 2022.]
- [12] Zhang, Lei and Du, Yingjun and Shen, Jiayi and Zhen, Xiantong "Learning to Learn with Variational Inference for Cross-Domain Image Classification," [IEEE Trans. Multimedia, 2022.]
- [13] Zhang, Anran and Shen, Jiayi and Xiao, Zehao and Zhu, Fan and Zhen, Xiantong and Cao, Xianbin and Shao, Ling "Relational Attention Network for Crowd Counting," [ICCV, 2019.]
- [14] Zhang, Anran and Yue, Lei and Shen, Jiayi and Zhu, Fan and Zhen, Xiantong and Cao, Xianbin and Shao, Ling "Attentional Neural Fields for Crowd Counting," [ICCV, 2019.]

# Awards and Honors \_\_\_\_\_

2020	Scholarship: "National Scholarship for Postgraduates"	Beijing
2020	Honorary Title: "Outstanding Postgraduates of Beihang University"	Beijing
2017	Honorary Title: "Outstanding Graduates of Beihang University"	Beijing

## Volunteer Services \_\_\_\_\_

#### Journal Reviewer

TPAMI, TIP

#### **Conference Reviewer**

ECCV24, ICML24, CVPR24, NeurIPS23, ICCV23, CVPR23, AAAI21, CVPR20