Tao Pu

Ph.D. student at Sun Yat-sen University

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Education

2020–Present **Sun Yat-sen University (SYSU)**, *Guangzhou*, China.
Doctor of Philosophy, School of Computer Science and Engineering
- Advisor: Professor Liang Lin
- Major in Computer Science

2016–2020 **Sun Yat-sen University (SYSU)**, *Guangzhou*, China.
Bachelor of Science, School of Computer Science and Engineering
- Major in Information Security

Experience

Sep 2023 -Present **Cognitive Reasoning (CoRe) Lab**, *Peking University (PKU)*.
Visiting Student
- Protocol-guided Biology Video Understanding, Advisor: Dr. Yixin Zhu

Feb 2019 -May 2020 **DMAI Inc. (an AI startup)**, *Guangzhou, China*.
Research Intern
- Cross-domain Facial Expression Recognition

Awards and Scholarships

2018 **Undergraduate National Scholarship**, Ministry of Education of China

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Publications

Selected Journals

TIP 2024 **Spatial-Temporal Knowledge-Embedded Transformer for Video Scene Graph Generation**.
<u>Tao Pu</u>, Tianshui Chen, Hefeng Wu, Yongyi Lu, Liang Lin
IEEE Transactions on Image Processing (IEEE TIP), 2024.

TPAMI 2022 **Cross-Domain Facial Expression Recognition: A Unified Evaluation Benchmark and Adversarial Graph Learning**.
ESI Highly Cited
Tianshui Chen, <u>Tao Pu</u>, Hefeng Wu, Yuan Xie, Lingbo Liu, Liang Lin
IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE TPAMI), 2022.

Selected Conference

AAAI 2022 **Semantic-Aware Representation Blending for Multi-Label Image Recognition with Partial Labels**.
<u>Tao Pu</u>, Tianshui Chen, Hefeng Wu, Liang Lin
36th Association for the Advance of Artificial Intelligence (AAAI), 2022.

ICRA 2021	**AU-Expression Knowledge Constrained Representation Learning for Facial Expression Recognition**. **Tao Pu**, Tianshui Chen, Yuan Xie, Hefeng Wu, Liang Lin IEEE International Conference on Robotics and Automation (ICRA), 2021.
AAAI 2022	**Structured Semantic Transfer for Multi-Label Recognition with Partial Labels**. Tianshui Chen, **Tao Pu**, Hefeng Wu, Yuan Xie, Liang Lin 36th Association for the Advance of Artificial Intelligence (AAAI), 2022.
ACM MM 2020 Oral	**Adversarial Graph Representation Adaptation for Cross-Domain Facial Expression Recognition**. Yuan Xie, Tianshui Chen, **Tao Pu**, Hefeng Wu, Liang Lin Proceedings of the 28th ACM International Conference on Multimedia (ACM MM), 2020.

Academic Activities

Journal reviewer

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

IEEE Transactions on Neural Networks and Learning Systems (TNNLS)

IEEE Transactions on Knowledge and Data Engineering (TKDE)

Conference Reviewer

International Conference on Learning Representations (ICLR)

IEEE Conference on Computer Vision and Pattern Recognition (CVPR)

Advances in Neural Information Processing Systems (NeurIPS)

International Conference on Machine Learning (ICML)

International Joint Conference on Artificial Intelligence (IJCAI)

ACM International Conference on Multimedia (ACM MM)