

Education

- 2018-present **University of Manitoba**, *MSc in Computer Science*.
Computer Vision Lab
Graduate Research Assistant with Professor Yang Wang
- 2013-2017 **University of Electronic Science and Technology of China**, *Bachelor of Engineering*.
Electronic Engineering
Statistical Machine Intelligence and Learning (SMILE) Lab
- 2016 **University of California, Santa Barbara**, *Electrical Computer Engineering*.
Exchange Program
Funded by China Scholarship Council

Research Interests

Computer Vision, Deep Learning, Statistical Machine Learning, Generative Models, Similarity Learning, Meta Learning, Anomaly Detection.

Publications

(* denotes equal contribution)

- AVSS-2019 **Future Frame Prediction Using Convolutional VRNN for Anomaly Detection**, **Yiwei Lu**, Mahesh Kumar K, Seyed shahabeddin Nabavi and Yang Wang., IEEE International Conference on Advanced Video and Signal-based Surveillance.
- AAAI-2019 **Similarity Learning via Kernel Preserving Embedding**, Zhao Kang, **Yiwei Lu**, Yuanzhang Su, Changsheng Li, Zenglin Xu, Thirty-Third AAAI Conference on Artificial Intelligence .
- MMSP-2019 **Semantic Segmentation in Compressed Videos**, Ang Li*, **Yiwei Lu*** and Yang Wang, IEEE International Workshop on Multimedia Signal Processing.
- EdgeSP-2019 **Homoglyph Attack Detection with Unpaired Data**, **Yiwei Lu***, Mahesh Kumar K*, Noman Mohammed, Yang Wang, The Fourth ACM/IEEE Symposium on Edge Computing.
- Under Review **Few-shot Scene-Adaptive Anomaly Detection**, **Yiwei Lu***, Frank Yu*, Mahesh Kumar K and Yang Wang.
- Under Review **AdaCrowd: Zero-Shot Scene-Adaptive Crowd Counting**, Mahesh Kumar K, **Yiwei Lu**, Mirgank Mrochan and Yang Wang.
- Under Review **Anomaly Detection using Generative Sequential Models**, **Yiwei Lu**, Frank Yu, Mahesh Kumar K, Seyed shahabeddin Nabavi and Yang Wang.
- Under Review **Low-dimensional Structure Learning with Similarity Preserving**, **Yiwei Lu**, Zhao Kang and Zenglin Xu.

Award and Honors

- 2019-2020 University of Manitoba Graduate Funding (UMGF)
2019 University of Manitoba Graduate Studies Travel Funding
2019 University of Manitoba Graduate Student Association Travel Funding
2018-2019 University of Manitoba Graduate Fellowship
2013-2017 People's Scholarship

- 2016 China Scholarship Council Scholarship for Studying Aboard
- 2016 UESTC Travel Award

Working Experiences

- 2017-2018 **Huawei Technologies Co. Ltd.**, *Internship*.
Software Engineering: Storage Tools
Computer Vision: Video Understanding

Teaching Experiences

- 2018-2019 **Teaching Assistant**, *University of Manitoba*.
Advanced Artificial Intelligence
- 2013-2018 **Marker**, *University of Electronic Science and Technology of China*.
Statistical Machine Learning
Pattern Recognition

Skills

- Core Languages**, *C, C++, Python*.
- Web Technologies**, *HTML, CSS*.
- Deep Learning Framework**, *PyTorch, Tensorflow, CAFFE*.
- Miscellaneous**, *Matlab, Docker, Visual Studio, Git, L^AT_EX*.
- Platform**, *Linux(Ubuntu), Mac OS, Windows*.