

EXPERIENCE

- **Layer6 AI/TD Bank**
Machine Learning Scientist *Jan 2019 - Present*
 - **Research:** Published papers in top conferences.
 - **Infrastructure:** Designed and implemented high-performance in-house machine learning framework. Provided multi-gpu deep learning, computer vision and natural language processing functionalities.
 - **Use Cases:** Created machine learning models for banking systems such as mortgage pre-approval. Worked with business to define functional requirements. Provided explainable insights of deep learning and xgboost models.
- **Modiface**
Machine Learning Research Intern *May 2018 - Dec 2018*
 - **Machine Learning Research:** Focused on model compression and computer vision
- **Analog Devices Inc.**
FPGA and Embedded Software Intern *May 2015 - Aug 2016*
 - **FPGA and Embedded Systems:** Optimized high speed digital signal processing software and hardware

PUBLICATIONS

- **TabPFGen – Tabular Data Generation with TabPFN** NeurIPS 2023
J Ma, A Dankar, G Stein, G Yu, A Caterini
- **X-Pool: Cross-Modal Language-Video Attention for Text-Video Retrieval** CVPR 2022
SK Gorti, N Vouitsis*, J Ma*, K Golestan, M Volkovs, A Garg, G Yu*
- **Weakly Supervised Action Selection Learning in Video** CVPR 2021
J Ma, SK Gorti*, M Volkovs, G Yu*
- **Cross-Class Relevance Learning for Temporal Concept Localization** ICCV 2019
J Ma, SK Gorti*, M Volkovs, I Stanevich, G Yu*
- **Semi-Supervised Exploration in Image Retrieval** CVPR 2019
C Chang, H Rai, SK Gorti, J Ma, C Liu, G Yu, M Volkovs
- **Guided similarity separation for image retrieval** NeurIPS 2019
C Liu, G Yu, M Volkovs, C Chang, H Rai, J Ma, SK Gorti
- **Text-to-image-to-text translation using cycle consistent adversarial networks** Arxiv 2018
J Ma, SK Gorti**

COMPETITION

- **Kaggle Competitions Master: kaggle.com/junweima**
World Rank: 168th
 - **YouTube Video Understanding Challenge 2019:** 1st place
 - **Google Landmark Retrieval Challenge 2019:** 3rd place
 - **Google Landmark Retrieval Challenge 2020:** 10th place
 - **Google Landmark Recognition Challenge 2020:** 58th place

EDUCATION

- **University of Toronto**
Master of Science in Applied Computing; GPA: 4.00 *Sep. 2017 – Jan. 2019*
 - **Teaching Assistant:** Algorithm and Data Structure
- **University of Toronto**
Bachelor of Science in Electrical and Computer Engineering; GPA: 3.77 *Sep. 2012 – May. 2017*