
EDUCATION

- **Carnegie Mellon University** Pittsburgh, PA
Master of Science in Computer Vision; Aug. 2018 – Dec. 2019
- **Georgia Institute of Technology** Atlanta, GA
B.S. in Computer Science, B.S. in Industrial and System Engineering; Aug. 2013 – May. 2018
Honors: Summa Cum Laude

PUBLICATIONS

- [1] J. Yang*, **Y. Wang***, R. Yi, Y. Zhu, A. Rehman, A. Zadeh, S. Poria, L.P. Morency, “MTAG: Modal-Temporal Attention Graph for Unaligned Human Multimodal Language Sequences”, in **NAACL-HLT 2021**
- [2] **Y. Wang**, K. Kitani, X. Weng, “Graph Neural Network for Simultaneous Detection and Association for Multi-Object Tracking”, in **ICRA 2021**
- [3] E. Chong, **Y. Wang**, N. Ruiz, J. Rehg, “Detecting Attended Visual Targets in Video”, in **CVPR 2020**
- [4] X. Weng, **Y. Wang**, Y. Man, K. Kitani, “Graph Neural Network for 3D Multi-Object Tracking with Multi-Feature Learning”, in **CVPR 2020**
- [5] E. Chong, N. Ruiz, **Y. Wang**, Y. Zhang, A. Rozga, J. Rehg, “Connecting Gaze, Scene, and Attention: Generalized Attention Estimation via Joint Modeling of Gaze and Scene Saliency”, in **ECCV 2018** [PDF]
- [6] A. Godwin, **Y. Wang**, J. Stasko, “TypoTweet Maps: Characterizing Urban Areas through Typographic Social Media Visualization”, short paper in **European Conference on Visualization 2017** [PDF]

SELECTED EXPERIENCE

- **Amazon AWS AI** Seattle, WA
Applied Scientist I Mar. 2019 - present
 - Working on improving face recognition pipeline performance, and fairness in face recognition technologies,
- **Carnegie Mellon University** Pittsburgh, PA
Capstone Project with Prof. Kris Kitani Jan. 2019 - Mar. 2020
 - Graph Neural Network (GNN) for Simultaneous Detection and Association for Multi-Object Tracking (MOT) [2]
 - Proposed the first GNN method for simultaneous detection and association for multi-object tracking
 - Achieved State-of-the-art performance on MOTChallenge
- **Carnegie Mellon University** Pittsburgh, PA
Research Assistant with Prof. Louis-Philippe Morency Aug. 2019 - Mar. 2020
 - Designed a Graph Neural Network based method for modeling multimodal temporal human language sequences [1]
 - Built deep face counting and deep face tracking pipelines
- **Amazon AWS AI** Seattle, WA
Applied Scientist Intern with Dr. Wei Xia May 2019 - Aug. 2019
 - Designed high resolution face synthesis with disentangled control through facial identity and attributes
 - Presented work to all Amazon Scientist across the globe at Amazon All-Hands meeting
- **Georgia Institute of Technology** Atlanta, GA
Research Assistant with Prof. Jim Rehg Jan 2017 - May 2018
 - Gaze target prediction in video [3].
 - Designed a spatial-temporal architecture for gaze target prediction in video
 - Gaze target prediction in the wild [5].
 - Annotated human gaze targets as in-image and out-of-image for 120,000 sample
 - Performed experiments and designed baseline ablations
- **ADP LLC** Atlanta, GA
Software Development Intern May 2017 - Aug. 2018
 - Designed the backend pipeline for ADP Web Service Monitor Tool using NodeJS, ExpressJS and MongoDB
 - Functionalities include user registration, login/logout, continuous/manual service monitoring

SELECTED PROJECTS

- **Face Counting:** Designed a method to count the number of unique faces within a set of images
- **Attended One-Stage Visual Grounding:** Built a project on language grounding in images using attention
- **Face Tracking in Video:** Implemented a project to track human faces within videos while working on Social-IQ
- **Facial-Vocal GAN:** Designed a multi-modal Generative Adversarial Network for talking face generation
- **Multi-Source Domain Adaptation:** Applied Model Agnostic Meta-Learning for multi-source domain adaptation

PROGRAMMING SKILLS

- **Languages:** Python, MatLab, Java, C++ **Technologies:** PyTorch, NumPy, Tensorflow, OpenCV, AWS