
EDUCATION

- **Carnegie Mellon University** Pittsburgh, PA
Master of Science in Computer Vision; GPA: 4.0/4.33 Aug. 2018 – Dec. 2019
- **Georgia Institute of Technology** Atlanta, GA
Bachelor of Science in Computer Science; GPA: 3.67/4.0 Aug. 2013 – May. 2018
Bachelor of Science in Industrial and System Engineering; GPA: 3.67/4.0

PUBLICATIONS

- [1] **Y. Wang**, X. Weng, K. Kitani, “Graph Neural Network for Simultaneous Detection and Association for Multi-Object Tracking”, work under progress
- [2] X. Weng, **Y. Wang**, Y. Man, K. Kitani, “GNNMOT: Graph Neural Network for Joint 2D and 3D Online Multi-Object Tracking”, in submission
- [3] E. Chong, **Y. Wang**, N. Ruiz, J. Rehg, “Detecting Attended Visual Targets in Video”, in submission
- [4] 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]
- [5] 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

- **Carnegie Mellon University** Pittsburgh, PA
Capstone Project with Prof. Kris Kitani Jan. 2019 - Present
 - Graph Neural Network (GNN) for Simultaneous Detection and Association for Multi-Object Tracking (MOT) [1]
 - Proposed the first GNN method for simultaneous detection and association for multi-object tracking
 - Achieved performance competitive to state of the art MOT Benchmark (MOTA 56.6/48.7 on MOT15/17)
 - Worked on 2D/3D Multi-Object Tracking using GNN [2]. Paper submitted.
- **Carnegie Mellon University** Pittsburgh, PA
Research Assistant with Prof. Louis-Philippe Morency Aug. 2019 - Present
 - Implemented a Graph Neural Network based method for social intelligence modeling on Social-IQ dataset
 - Built deep face counting and deep face tracking pipelines for data preprocessing
- **Amazon** 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]. Work done while at CMU, paper submitted.
 - Designed a spatial-temporal architecture for gaze target prediction in video
 - Gaze target prediction in the wild [4]. Paper accepted in **ECCV 2018**
 - Annotated human gaze targets as in-image and out-of-image for over 120,000 images
 - Performed experiments and compared against baseline methods
- **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

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