YUJIA CHEN

yujiac2@andrew.cmu.edu | (412) 304-2391 | linkedin.com/in/yujia-chen-631905120 | github.com/IssacCyj

EDUCATION

Carnegie Mellon University – School of Computer Science Pittsburgh, PA
Master of Science in Computer Vision 08/2018 - 12/2019
In-progress Coursework: Computer Vision; Machine Learning; Math Foundations for Robotics

University of Science and Technology Beijing (USTB) GPA 3.83/4.0 (overall); 3.97/4.0 (major courses) Beijing, China
Bachelor of Science in Computer Engineering - Internet of Thing 09/2014 - 06/2018
Honors: National Scholarship; National College Student Data Mining Contest, national wide Third Prize

PUBLICATION

- ***Yujia, C**; Lingxiao, S; He, R; Yibo, H. 2017. Adversarial Occlusion-aware Face Detection. The 9th IEEE International Conference on Biometrics: Theory, Applications, and Systems (BTAS 2018) **(Oral)***
- ***Yujia, C**; Li, C. 2017. GM-Net: Learning Features with More Efficiency. The 4th Asian Conference on Pattern Recognition (ACPR 2017) **(Oral)***
- *A. Wulamu; Yuanyu, Z; Yonghong, X; Xu, Y; **Yujia, C**. 2017. Structural Technology Research on Symptom Data of Chinese Medicine. 19th International Conference on E-health Networking, Application & Services **(Poster)***
- ***Yujia, C**; Yifeng, P; Leiqi, W; Yuanyu, Z; Tao, Z. 2016. Cyber-Enabled Traditional Chinese Medicine. In IEEE International Conference on IoT. **(Video Demo)***

UNPUBLISHED

- ***Yujia, C**; Linsen, S; Shixue, Z. 2016. The Analysis of Factors That Influence Human Health between Air Condition, Weather Conditions and Comfort Index and Prediction Modeling. (The analytical methods have been accepted by the Ministry of Science and Technology of P.R.C)*

PROFESSIONAL EXPERIENCE

Chinese Academy of Sciences, Institute of Automation Beijing, China
Intern Researcher 05/2017 - 06/2018

- Designed a partial face detector with adversarial methods with Caffe that outperformed state-of-the-art results by over 10% on partial face detection benchmarks. The paper was accepted as oral presentation by BTAS 2018.
- Created an easy-to-adapt face detection model with different settings with Pytorch which was widely used as baseline model in the research teams in CASIA.
- Designed a baseline model for unsupervised human pose generation.

Laboratory of IoT&Robotics at USTB Beijing, China
Research Assistant 09/2016 - 04/2017

- Designed an efficient feature extractor with model compression methods with Keras that achieved state-of-the art results while reducing the model parameters to less than one million. The paper was accepted as oral presentation by ACPR 2017.
- Designed a low-resolution object detector and classifier with Keras which achieved top 20% in the first round evaluation in Kaggle Competition: the Nature Conservancy Fisheries Monitoring.

Oracle China Beijing, China
Intern-Software Development Division 04/2016 - 06/2016

- Participated in enterprise database management and debugging, including data management and analysis.

ACADEMIC PROJECTS

The Application of Image Caption for the Blind - Tell Me Eye Smart Glasses Beijing, China
University of Science and Technology Beijing Spring 2017

- Developed a wearable device named Tell Me Eye Smart Glasses that is capable of converting images to audio through an image caption model and set up servers and transmitted data with a raspberry pi with WIFI connection.

Biological Data Analysis on miRNA Series Beijing, China
China Academy of Mathematics and Systems Science Winter 2016

- Responsible for leading the team and choosing the research direction.
- Came up with a novel method for human microRNA-disease association prediction, which was based on PageRank with microRNA clusters.

Data Mining for the Elderly Beijing, China
University of Science and Technology Beijing Winter 2016

- Established a database for supporting local government's senior care projects.
- Crawled Personally Identifiable Information (PII) data of senior citizens from internet, as well as detailed information of local senior care facilities.

SKILLS

Programming Languages: Python, Matlab, C/C++, HTML
Toolkits: Pytorch, Caffe, Keras, Tensorflow