Jiayuan Mao (茅佳源)

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Education

B.E. in Computer Science (2014.09 -)
- Special Pilot Computer Science Class (Yao Class)
- Institute for Interdisciplinary Information Sciences, Tsinghua University, Beijing, 100084 PRC
- GPA: 88/100

- 2015.10 Tsinghua Scholarship (Model Student of Academic Progress)
- 2016.10 Tsinghua-Baidu Scholarship (Second Prize)
- 2016.10 IIIS Excellent Student Cadre
- 2017.9 Yao Award (Recognition Prize)

High School (2011.09 – 2014.06)
- Shanghai High School, Shanghai, 200231 PRC

Research Experience

Visiting Student at University of Southern California (2017.03 – 2017.08)
University of Southern California, Los Angeles, CA Advisor: Joseph J. Lim
- TensorArtist: Neural network toolbox for Tensorflow.
  https://github.com/vacancy/TensorArtist
- Generative models considering compositionality. (unpublished)
- Transfer learning and life-long learning for deep reinforcement learning (DRL). (unpublished)

Research Intern in Computer Vision (2015.09 –)
Megvii Technology Inc. (No. 2 Kexueyuan South Road, Haidian District, Beijing, 100190 PRC)
- Build a negative-mining training pipeline for pedestrian detection.
- Build a real-time pedestrian detection system based on various handy-crafted filters (e.g. ACF LDCF, Rotated Filters), Adaboost and CNN-based post-filters.
- Build a CNN-based object detection system including implementation of Fast-RCNN, Faster-RCNN, RFCN and SSD.

Publications

- **Jiayuan Mao***, Tete Xiao*, Yuning Jiang, Zhimin Cao. What Can Help Pedestrian Detection?. In *IEEE Computer Vision and Pattern Recognition (CVPR), 2017*.

Skills

- Language: Chinese, English.
- Programming: Proficient: C++ and Python. Familiar with: Javascript, Golang, PHP, Java.

Awards

- 2015.3 Meritorious Winner (15%), MCM 2016 (Mathematical Contest in Modeling)
- 2013.8 Second Prize, CASTIC (China Adolescents Science & Technology Innovation Contest)
  - Noteware: Intelligent sticky note application based on OCR and lexical analysis.
- 2013.7 Silver Medal, NOI 2013 (National Olympiad in Informatics)
- 2013.5 Golden Medal, APIO 2013 (Asia-Pacific Informatics Olympiad)