Haoyu Wang

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EDUCATION

Shanghai Jiao Tong University, Shanghai, China Sep 2015 - Present
Bachelor of Engineering in Information Engineering Expected June 2019
GPA (overall): 89/100; **Ranking**: 10/156
Core courses: Big Data Mining (97, Top 5), Machine Learning (92, Top 3), Data Structures and Algorithms, Hardware Description Language and System Simulation (95), Computing Communication Theory, Principles and Experiments of Communications (94), Signals and Systems, Electromagnetic Field (94), Probability and Statistics, Wireless Networking Technology (96), Introduction to Engineering (98)

PUBLICATIONS

[1] Yuliang Xiu, Jiefeng Li, **Haoyu Wang**, Yinghong Fang, and Cewu Lu. "**Pose Flow: Efficient Online Pose Tracking**", BMVC 2018 (https://arxiv.org/abs/1802.00977)
[2] Zelin Zhao, **Haoyu Wang***, Gao Peng*, Haoshu Fang, Chengkun Li, and Cewu Lu. "**Estimating 6D Pose From Localizing Designated Surface Keypoints**", ICCV 2019 submission (https://arxiv.org/abs/1812.01387)
[3] **Haoyu Wang**, Vivek Kulkarni, and William Yang Wang. "**DOLORES: Deep Contextualized Knowledge Graph Embeddings**", ACL 2019 submission (https://arxiv.org/abs/1811.00147)

RESEARCH EXPERIENCES

Research Assistant (RA) in Natural Language Processing Group, UCSB July 2018 - Sep 2018
Advisor: **William Yang Wang**, Assistant Professor, Department of Computer Science, UCSB
Project: Knowledge Graph Representation
- New **knowledge graph embedding** algorithm that captures contextual cues and dependencies among entities and relations;
- State of the art results in link prediction, triple classification, and missing relation prediction (~10% improvement).

Research Assistant (RA) in Machine Vision and Intelligence Group (MVIG), SJTU Nov 2017 - Dec 2018
Advisor: **Cewu Lu**, Research Professor, Department of Computer Science and Engineering, SJTU
Project: Pose Estimation and Tracking
- New method for multi-person **pose tracking** with spatio-temporal information;
- Outperformed the state of the art by 13 mAP 25 MOTA (on the PoseTrack dataset);
- Novel architecture of detecting 3D model instance and **estimating 6D pose** under heavy occlusion;
- Outperformed state-of-the-art method without post-refinement by 23% (on the LineMod dataset).

Research Assistant (RA) in National Engineering Laboratory for Information Content Analysis Technology, SJTU
Advisor: **Shenghong Li**, Professor, School of Cyber Security, SJTU Mar 2016 - June 2018
Project: Recognition of Sensitive Content with Deep Learning
- Data pre-processing including noise, rotation, size of text images;
- Matching internet images with confidential files to identify information leak.

HONORS

- SCSK Scholarship at SJTU (Top 5%) Oct 2018
- HUAWEI Scholarship at SJTU (Top 5%) Oct 2017
- Honorable Mention in Mathematical Contest in Modeling (MCM) May 2017
- The first-class Academic Excellence Scholarship of SJTU (Top 5%) Oct 2016
- First Prize in UAV (Unmanned Aerial Vehicle) Competition of SJTU (30 teams in total) Apr 2016

TESTS

- **TOEFL:** Total: 108 **(**Reading 29, Listening 30, Speaking 22, Writing 27)
- **GRE:** Verbal 154, Quantitative 169, AW 3.5

TECNICAL STRENGTHS

Computer Languages: Experienced in Python, C++, Matlab
Tools: TensorFlow, PyTorch