LISHENG WU

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EDUCATION

University College London(UCL)

Sep 2017 - Nov 2018

- MRes Web Science and Big Data Analytics

- GPA: 74.7/100 (Distinction)

Sep 2013 - Jul 2017

Shanghai Jiao Tong University(SJTU)

- B.S. in Computer Science(IEEE Honor Class) - GPA: 85.8/100 (3.55/4.0)

PUBLICATIONS

- [1] Learning Shared Dynamics with Meta-World Models. Lisheng Wu, Minne Li, Jun Wang, Arxiv.
- [2] Learning multi-agent implicit communication through actions: a case study in Bridge, a collaborative imperfect information game. Zheng Tian, Shihao Zou, Tim Warr, Lisheng Wu, Jun Wang, Arxiv.
- [3] Unsupervised Deep Domain Adaptation for Pedestrian Detection. Lihang Liu, Weiyao Lin, Lisheng Wu, Yong Yu, Michael Ying Yang, ECCV Workshop 2016 (accepted).

TECHNICAL SKILLS

Caffe, MXNet, Tensorflow, PyTorch, ROS2, AWS, Web, Hadoop Tools

Languages Python, C++, CUDA, MATLAB, SQL

WORK EXPERIENCE

Wayve Nov 2018 - Jan 2019 Research Internship Cambridge

- · Implemented vehicle logging module to subscribe messages from ROS2 and write them to disk.
- · Accelerated the control model from 12Hz to over 110Hz with NvMedia, CUDA and TensorRT. Trained deep learning models with multi-camera inputs end to end.

Nvidia APAC, Devteach Group

Deeplearning Software Engineer Internship

Jul 2017 - Sep 2017 Beiiina

· Implemented new StarCraft I micro-scenes on qym-starcraft and implemented the multiagent algorithm BiCNet to learn the cooperation among multiple agent on the micro-scenes.

PROJECTS

Unify Representations with Shared Dynamics

Jun 2018 - Sep 2018

- · Proposed to learn world models for multiple RL environments using shared dynamics.
- · The trained models represent corresponding states in different environments with similar representations. We associate the results with the self-consciousness phenomenon and human learning process.

Implicit Communications in Bridge Bidding

Apr 2018 - Sep 2018

- · Implemented one bridge bidding environment whose rewards are computed by *Double Dummy Solver*.
- · Designed belief module and communication rewards to help the bidding players communicate.

Curiosity-driven based exploration on Montezuma Revenge

Feb 2017 - May 2017

· Implemented curiosity-driven based exploration methods on one most challenging atari game Montezuma Revenge and achieve 2500 scores on average. Was ranked as the 2nd place on openai leadboard.

Pedestrian Detection and Tracking

Jan 2016 - Oct 2016

- · Implemented one real-time pedestrian detection system(36fps) based on ReInspect architectures.
- \cdot Realized pedestrian tracking by matching features (30fps) and won first place in MOT16.

Unsupervised Deep Domain Adaptation for Pedestrian Detection Apr 2016 - Jul 2016

· Proposed a new derived MMD Loss and utilized semi-supervised learning to perform domain adaption.

MCTS Based Computer Go

Nov 2015 - Jan 2016

- · Implemented MCTS, AMAF, UCT algorithms and performed Monte-Carlo rollout with fixed patterns.
- · Competed with students in groups with only 3s allowed for each step and won the 3rd out of 16 teams.