

# LISHENG WU

(+44) 7402-421377 ◇ lisheng.wu.17@ucl.ac.uk

## EDUCATION

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### Shanghai Jiao Tong University(SJTU)

*Sep. 2013 - Expected Jul. 2017*

- B.S. in Computer Science(IEEE Honor Class)
- GPA: 85.1/100 (3.55/4.0)
- Selected Curriculums: Program Design(94/100), Data Structure(93/100), Machine Learning(92/100)

### University College London(UCL)

*Sep. 2017 - Expected Sep. 2018*

- MRes Web Science and Big Data Analytics
- Selected Curriculums: NLP(89/100), Graphical Model, Information Retrieval and Data Mining, Machine Vision

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	C++, Cuda, Python, Matlab
<b>Tools</b>	Caffe, MXNet, Tensorflow, MySQL, OpenCV
<b>Areas</b>	DL, RL, MV, NLP, Crawler, Web

## EXPERIENCE

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### Multi-Agent Reinforcement Learning(MARL) on StarCraft

Jul. 2017 - Sep. 2017

*Deep Learning Software Engineer Intern*

*Nvidia*

- Rewrite the gym-starcraft platform and create new environments to support MARL input
- Reproduced the cooperations of units using BiCNet in StarCraft I'sds micro-scenes based on ddpg.

### Pedestrian Detection and Tracking Using Deep Learning

Jan. 2016 - Oct. 2016

*Research Assistant, advised by Associate Prof. Weiyao Lin*

*SJTU*

- Implement the detection algorithm using MXNet to achieve real-time performances.( 36 fps)
- Extracted human-body features using ROI Pooling and achieved multi-object tracking using them.( 30fps)
- Won the first place in MOT16 challenges.

### Unsupervised Deep Domain Adaptation for Pedestrian Detection

Apr. 2016 - Jul. 2016

*Research Assistant in Apex Lab, cooperated with Lihang Liu*

*SJTU*

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

### MCTS Based Computer Go

Nov. 2015 - Jan. 2016

*Group leader, Artificial Intelligence Course Group advised by Prof. Liqing Zhang*

*SJTU*

- Implemented MCTS, AMAF, UCT algorithm and performed Monte-Carlo rollout using patterns.
- Maintained the liberty of each string dynamically to search faster. Won the 3rd place out of 16 teams.

### Reinforcement Learning with Sparse Reward

Feb. 2017 - June. 2017

*Research Assistant in Apex Lab, advised by Prof. Yong Yu*

*SJTU*

- Based on curiosity-based exploration, achieved average 2451 scores using pixelcnn on Montezuma-Revenge.

## PUBLICATION

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Unsupervised Deep Domain Adaptation for Pedestrian Detection *Lihang Liu, Weiyao Lin, **Lisheng Wu**, Yong Yu, Michael Ying Yang*, ECCV Workshop, accepted

## AWARDS

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**Academic Excellence Scholarship, SJTU**

*Oct. 2015 and Oct. 2016*