

Shangtong Zhang

Resume

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Education

- Sept.2012– July.2016 **Bachelor of Science, Computer Science, Fudan University**, Shanghai, China, GPA 3.57/4.0, Rank 9/84.
Thesis: Text matching with LSTM and Earth Mover's Distance, advised by Prof. Wenqiang Zhang
- Sept.2016– Sept.2018 **Master of Science, Computing Science, Statistical Machine Learning, University of Alberta**, Edmonton, Canada, GPA 4.0/4.0.
Supervised by Dr. Richard S. Sutton in RLAI lab

Experience

Publications

- 2017 **Learning Representations by Stochastic Meta-Gradient Descent in Neural Networks**, V Veeriah, S Zhang, RS Sutton, ECML-PKDD 2017, Co-First Authorship.
- 2015 **A Deep Neural Network for Modeling Music**, Zhang P, Zheng X, Zhang W, Li S, Qian S, He W, Zhang S, Wang Z, ICMR 2015.

Employment

- Sept.2016– Present **University of Alberta, Edmonton, Canada.**
- Teaching Assistant for CMPUT229 *Computer Organization and Architecture* (Sept.2016 - Dec.2016)
 - Research Assistant in RLAI lab supervised by Dr. Richard S. Sutton (Jan.2017 - Present)
- July.2015– May.2016 **SAP, Shanghai, China**, Javascript intern in UI commons of SuccessFactors.
- ConfigUI, a framework to render UI layout with complicate tree-structured metadata
 - DWRExplorer, a chrome plugin to parse DWR request/response into tree structure

Selected Projects

- Feb.2017– Sept.2017 **Google Summer of Code 2017**, Contribute to *MLPack* with frameworks for deep Q-learning and asynchronous deep RL methods (e.g. A3C, async n-step Q-learning etc).
- Sept.2016– Nov.2016 **RL: An Introduction**, Implement Sutton & Barto's book *Reinforcement Learning: An Introduction (2nd Edition)*.
This repository earns more than 1,200 stars and 500 forks in Github
- Jun.2016– Present **SlardarOS**, *Build my own toy OS from the very beginning with C++14 and STL containers..*
Includes virtual memory, interruption, privilege level switch and mutil-processes (in progress)
- May.2016– Present **Stack Overflow**, Earn more than 1100 reputations in C++ related tags, solve some problems about auto-completion with libclang.
- Jan.2015– Jun.2015 **MLPack**, Contribute to *MLPack*, a scalable C++ machine learning library with advanced C++ template technique.
- A framework for *Mean Shift* algorithm which is 3.7 times faster than *Scikit* does.
 - A detachable framework for various *Convolutional Neural Network* and implement *LeNet1* as a test case.
 - A uniform framework for *manifold learning* including *Isomap*, *LLE*, *MDS*.
- Feb.2014– Sept.2014 **Google Summer of Code 2014**, Contribute to *Xapian*, a C++ search engine, in optimizing the storage of *post list* and *position list* by *Vector of Splits Encoding* and *skip list*.

Awards

- Sept.2014 **EMC Scholarship**, Fudan University.
- Apri.2016 **Second Class Scholarship**, Fudan University.