

Xihan LI

Room 2320, Science Building II, Peking University, Beijing, 100871
xihanli@pku.edu.cn • +86 188 6818 0208 • <https://snowkylin.github.io/about>

EDUCATION

Peking University, Beijing, China

- M.S. Candidate in Computer Science and Technology (Machine Intelligence) Sep 2016 – current
Advisor: Prof. Yunhai Tong
Focus: Data Mining, Machine Learning, Deep Learning

National Chiao Tung University, Hsinchu, Taiwan

- Exchange Student, College of Electrical and Computer Engineering Feb 2015 - Jun 2015

Zhejiang University, Hangzhou, Zhejiang, China

- B.Eng. in Computer Science and Technology Sep 2012 – Jun 2016
Minor Courses Certificate in Biological Science.
Graduated with Chu Kochen College Honors.
Cumulative GPA: 3.6 / 4.0; Major GPA: 3.8 / 4.0

RESEARCH EXPERIENCE

Key Laboratory on Machine Perception (Ministry of Education), Peking University

- Graduate Research Student Sep 2016 – current
Advisor: Prof. Yunhai Tong
Focus: Data Mining, Machine Learning, Deep Learning
- Improved Google Deepmind's asynchronous methods for deep reinforcement learning on weight update process.
- Reimplemented Google Deepmind's DRAW model for image generation and Alex Graves' RNN handwriting prediction & synthesis model with TensorFlow.
- Wrote several analytical articles and reviews about new models and methods in machine learning and deep learning.

Institute of Microbiology, Chinese Academy of Sciences

- Invited Visiting Research Student Jul 2016
Inviter and Advisor: Prof. Yijian Yao
Focus: Bioinformatics, Software Development
Project: Chinese Species Red List - Fungus Volume

Institute of Artificial Intelligence, College of Computer Science, Zhejiang University

- Undergraduate Research Student May 2014 – Jun 2016
Advisor: Prof. Xiaogang Jin
Focus: Complex Network Analysis, Recommendation Algorithm
Project: Research and Implementation of Intelligent Recommendation Algorithm for Wikipedia Dec 2015 – Jun 2016
Project: Analysis of the Influence Factor in Complex Reply Network May 2014 – Nov 2015

TEACHING EXPERIENCES

Data Warehousing and Data Mining Technology, Peking University

- Teaching Assistant Spring and Summer Semester, 2017
Designed the detailed instruction and criteria of the four choices of final course project. Directed the project class. Maintained the server for course resources.

AWARDS AND SCHOLARSHIPS

- Outstanding Undergraduate Thesis, Zhejiang University Jun 2016
- Outstanding Winner (top 9 in 2137), 2015 Interdisciplinary Contest in Modeling Apr 2015
- Scholarship for Outstanding Merits, Zhejiang University Dec 2014
- Scholarship for Outstanding Students, Zhejiang University Dec 2014
- Excellent Student Award, Zhejiang University Dec 2014
- Outstanding Student Leader Award, Zhejiang University Dec 2014
- First Prize of Undergraduate Group, 2014 Contemporary Undergraduate Mathematical Contest in Modeling Dec 2014
- First Prize, 2014 Mathematical Contest in Modeling, Zhejiang University Jun 2014
- Scholarship for Outstanding Merits, Zhejiang University Dec 2013

	<ul style="list-style-type: none"> ▪ Gold Medal & Best Experimental Measurement Approach, Asia, 2013 International Genetically Engineered Machine competition Nov 2013 ▪ First Prize, 2011 National Olympiad in Informatics in Provinces Dec 2011
SELECTED COURSES	<ul style="list-style-type: none"> ▪ Maching Learning (highest score in class), Deep Learning, Pattern Recognition, Complex Network Analysis, Computational Intelligence, Artificial Intelligence, Data Mining, Mathematical Modeling, Computation Theory, Applied Operational Research.
COMPUTER SKILLS	<ul style="list-style-type: none"> ▪ Programming Languages: Python, Matlab, L^AT_EX, Java, PHP, R, Bash, C, C++, Pascal, Verilog, JavaScript, CSS, HTML, SQL, XML ▪ Frameworks: TensorFlow, NumPy, Android SDK, scikit-learn, OpenCV, OpenGL, LLVM, Arduino, ThinkPHP, Jekyll
INDEPENDENTLY DEVELOPED PROGRAMS AND SOFTWARES	<p>async_rl Jan 2017 – Mar 2017 An open-source TensorFlow implementation of asynchronous 1-step Q learning with improvement on weight update process to speed up training. Available on GitHub: snowkylin/async_rl.</p> <p>rnn-handwriting-generation Dec 2016 – Jan 2017 An open-source reimplementation of Alex Graves' RNN handwriting prediction & synthesis model by TensorFlow. Available on GitHub: snowkylin/rnn-handwriting-generation.</p> <p>rnn-vae Nov 2016 – Jan 2017 An open-source reimplementation of variational autoencoder integrated with RNN based on Google DeepMind's DRAW model for image generation by TensorFlow. Available on GitHub: snowkylin/rnn-vae.</p> <p>Course Management System of Student Association of Zhejiang University Nov 2014 – Jan 2015 Designed for students to choose courses offered by clubs and student associations in ZJU. Used and modified by Student Association Union of ZJU on http://www.zjustjpkc.com/.</p> <p>Wilddream Platform May 2014 – current An easy-to-use, mobile friendly online multiuser art gallery system with multilanguage support. Used by WildDream Art on http://www.wilddream.net. With Computer Software Copyright Registration Certificate (Registration No: 2017SR111204) issued by National Copyright Administration of the PRC.</p>
CAMPUS AND SOCIAL ACTIVITIES	<p>Animal Protector Association, Zhejiang University 9th, 10th, 11th President Sep 2013 – Mar 2016</p> <p>Wildlife Conservation Society Intern Student Jul 2015 – Sep 2015</p>
CERTIFICATES AND LICENCES	<ul style="list-style-type: none"> ▪ Occupational Qualification Certificate of Psychological Consultant (Level III), the Ministry of Human Resources and Social Security, The People's Republic of China.

[Short CV compiled on 2017-04-20 for Machine Learning Camp Jeju 2017]