

Boya PENG

EMAIL: boya@stanford.edu WEBSITE: emmabypeng.github.io PHONE: (650) 2728720

EDUCATION

- SEPT 2015 - Present **Stanford University**, Stanford, CA
M.S. Candidate, Computer Science
Relevant Coursework: Natural Language Processing, Machine Learning, Computational Biology
- SEPT 2012 - JUNE 2015 **The University of Hong Kong**, Hong Kong
B.Eng. Computer Science, GPA: 3.81, CLASS RANKING: 1st/42
Relevant Coursework: Machine Learning, Computer Vision, Programming Languages, Compilers, Computer Networks, Software Engineering, Databases
- SEPT 2013 - DEC 2013 **University of California, San Diego**, San Diego, CA
Exchange Student, Computer Science, GPA: 4.0
Relevant Coursework: Operating Systems, Algorithms, Object-Oriented Programming

RESEARCH EXPERIENCE

- FEB 2015 - MAY 2015 **Compositionality and Modularity at Last!**
The University of Hong Kong, Research Assistant
› Presented a simple technique that allows non-trivial, but compositional interpretations of DSLs to be expressed in a fully modular way using folds.
- JUNE 2014 - Sept 2014 **Channel Mobility Incurred Source Routing in Cognitive Radio Networks**, *The University of Hong Kong, Research Assistant*
› Proposed a routing game that combined channel switching and route re-selection based on algorithmic game theory.
› Designed an algorithm to simulate the Fictitious Play process as the learning design.

ENGINEERING EXPERIENCE

- JUNE 2015 - AUG 2015 **Qifun Network Co., Ltd., Machine Learning Intern**
› Developed machine learning frameworks using Spark for game telemetry data. Created a data processor for data cleaning.
› Helped built the game log analysis tool using Spark, HDFS and Hive.
› Applied graph algorithms to find optimal execution order of dependent data analysis actions.

TECHNICAL SKILLS

Languages: JAVA, HASKELL, SCALA, PYTHON, C, C++
Web: HTML, CSS, PHP, JAVASCRIPT
OS: MAC OS X, UBUNTU, WINDOWS
Tools: GIT, MECURIAL, MAVEN, ~~HT~~EX, MYSQL, MICROSOFT OFFICE

SCHOLARSHIPS AND AWARDS

JAN 2015	HKMA Information Technology Management Club Scholarship 2014-2015
NOV 2014	Dean's Honors List 2013-2014
OCT 2014	Institute of Electrical and Electronics Engineers (Hong Kong Section) Prize 2013-2014
MAY 2014	Undergraduate Research Fellowship Program 2014
NOV 2013	Dean's Honors List 2012-2013
OCT 2013	HKUWW Scholarship (Exchange Studies at University of California, San Diego), 2013-2014
OCT 2013	Ho Fook's Prize in Engineering 2012-2013
OCT 2013	Walter Brown Memorial Prize in Mathematics 2012-2013