

LI, Zhihao

<http://codinfox.github.io>

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EDUCATION

Tongji University

B.Eng. in Software Engineering

Shanghai, China

Sept.2011 - Jun.2015 (Expected)

- GPA: 4.95/5.0 Ranking: 1/149
- Related Courses: Object-Oriented Programming, Data Structures, Operating System, Compiler Principle, Computer Architecture, Computer Network, Data Mining & Analysis, Machine Learning

Rose-Hulman Institute of Technology

Visit Student in Computer Science & Software Engineering

Terre Haute, IN

Aug.2014 - Nov.2014

- GPA: 4.0/4.0
- Related Courses: Design & Analysis of Algorithms, Artificial Intelligence

RESEARCH EXPERIENCES

Interest: Computer Vision, Machine Learning

Biologically Inspired Vision-based Indoor Localization

Directed by Prof. David Mutchler, Rose-Hulman Institute of Technology

Terre Haute, IN

Sept.2014 - Present

- Make use of biologically plausible method of Visual Saliency and Gist
 - Make use of SIFT feature and descriptor, BoF model, and SVM
 - Symposium: 11th Interdisciplinary Research Collaborative of RHIT
- Oral Presentation: *Biologically Inspired Vision-based Indoor Robot Localization and Scene Classification*

iLab@Tongji, Undergraduate Research

Directed by Prof. Laurent Itti, Tongji University and University of Southern California

Shanghai, China

Jan.2014 - Present

- Research on indoor service robot localization and navigation and applications of Saliency and Gist
- Independently implemented biologically plausible algorithm of Gist of a scene
- Independently implemented color manipulation algorithms including Retinex

Multimedia & Intelligent Computing Lab, Undergraduate Research

Directed by Prof. Hanli Wang, Tongji University

Shanghai, China

Sept.2013 - Dec.2013

- Research on computational aesthetics based image retrieval engine
- Tried to use of intensity, color, texture and shape features to assess whether a picture is beautiful
- Developer of the iOS client of a image search application

MOOC: Machine Learning Coursera Certificate

Jun.2014

TEACHING EXPERIENCES

Teaching Assistant

School of Software Engineering, Tongji University

Shanghai, China

Spring, 2013

- Teach exercise and review sessions of the first year Digital Logic course
- Outstanding Teaching Assistant Award

PROJECT EXPERIENCES

NRT (Neuromorphic Robotic Toolkit)

Cooperating with USC iLab

Contributor

Shanghai, China

Aug.2014 - Present

- Develop several color manipulation and image processing algorithms, including Retinex and Gist

GF - An Memory-aid Application for learning English Words **Shanghai, China**
Cooperating with New Oriental Education & Technology Group(NYSE:EDU) *Aug.2013 - Feb.2014*
Project Manager

- Developed an iOS application with proper algorithm to help people better memorizing English words

Using Networks to Measure Influence and Impact **Shanghai, China**
Interdisciplinary Contest in Modeling *Feb.2014*

- Used Matlab, SPSS, Excel and Gephi to do co-authorship network and do data visualization
- Proposed an Entropy-Weight-Based Gray Relational Analysis model, a quantitative method for analyzing the correlation between two subjects and avoid human interference in the weighting process.

Cellular Automaton Simulation Based Analysis Model on City Lane Occupation **Shanghai, China**
China Undergraduate Mathematical Contest in Modeling *Nov.2013*

- Used Matlab to implement cellular automaton model and simulate the city traffic

Navigation Instrument for Smartphones Based on Real-time Traffic Condition **Shanghai, China**
Funded by Shanghai Innovation Experiment Program *Nov.2011 - Nov.2013*
Team Leader

- Developed an cross-platform web-based HTML5 app to gather and share real-time traffic conditions across Shanghai automatically and provide the users with the best driving route

SmartEXPO - An Online Exhibition System **Shanghai, China**
Funded by SITP (Student Innovation Training Program), Tongji University *Mar.2013 - Jun.2013*
Web Front-end Engineer

- Developed a web-based virtual online exhibition system to aid the real-world exhibitions using HTML5

CloudEDU - An Online Education System **Shanghai, China**
Project for Microsoft ImagineCup 2014 and Course Project *Aug.2013 & Mar.2014*
Database Administrator

- Developed a C/S application to enable people to share their knowledge with SQL Server and C#

HONOURS & AWARDS

- 14' **Google Excellence Scholarship**, Google (Top 62 nation-wide, including graduate students)
Meritorious Winner of Interdisciplinary Contest in Modeling 2014 (Globally Top 10%)
Paper: Using Networks to Measure Influence and Impact
First Prize for Microsoft ImagineCup 2014 Tongji U, Microsoft
- 13' **National Scholarship**, Ministry of Education of the People's Republic of China (Top 0.2%)
I was the only one in my school who won the scholarship for two consecutive academic years.
First-class Scholarship, Tongji University (Top 10%)
Second Prize for China Undergraduate Mathematical Contest in Modeling, Shanghai (Top 10%)
Paper: Cellular Automaton Simulation Based Analysis Model on City Lane Occupation
Outstanding Student Award, Tongji University (Top 10%)
- 12' **National Scholarship**, Ministry of Education of the People's Republic of China (Top 0.2%)
First-class Scholarship, Tongji University (Top 10%)
Outstanding Student Award, Tongji University (Top 10%)
Outstanding League Member Award, Tongji University (Top 5%)
Bronze Prize for Master the Mainframe Contest, IBM

TECHNICAL STRENGTH

Programming Languages	C/C++, Matlab, Python, Java, JavaScript, HTML, CSS, L ^A T _E X, Objective-C
Platforms	Linux, Web, OS X (Unix), iOS
Tools	Git, SVN, Vim, GDB