

# Qi (Walden) Lian

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Personal Homepage: [waldenlan.github.io](http://waldenlan.github.io) Personal Blog: [waldenlian.com](http://waldenlian.com) (under server migration)

## Education

### Shanghai Jiao Tong University

Sep 2014 ~ Aug 2018 (expected)

Dept: UM-SJTU Joint Institute

Major: Electrical and Computer Engineering

Related Courses: Principle of Database (CS022), Intro to Logic Design (VE270), Programming & Elem. Data Structures (VE280)  
Data Structure and Algorithms (VE281), Intro to Computer Organizations (VE370)  
Data Mining (VE484), Intro to Operating Systems (VE482), Intro to Algorithms (VE477)

## Research & Projects

### Design and Implementation of MIPS32 5-stage Pipelined Processors

2016 Fall

- Served as the team leader and modified the single-cycle and 5-stage pipelined MIPS32 processor design
- Implemented the single-cycle and 5-stage pipelined MIPS32 processor in Verilog
- Simulated the pipelined-version processor on FPGA

### Personal Blog Development

2016 Summer

- Bought the personal domain name and deployed the Aliyun server
- Designed and implemented the UI for personal blog with HTML, CSS, and JavaScript
- Implemented the back-end functions with PHP (CodeIgniter framework)

### TA (Teaching Assistant) Evaluation System Development

2016 Spring

- Designed the UI for the website of TA Evaluation System with HTML and CSS
- Implemented the interaction events with Javascript and jQuery

### 2016 Mathematic Contest for Modeling — Space Debris

2016 Spring

- Designed two models based on water jet and net to eliminate space debris
- Designed an evaluation model for debris elimination models based on Analytical Hierarchy Process
- Implemented the model simulation with MATLAB

### Engineering Course Project — Polynomial Actuation

2014 Fall

- Designed the physical structure of the polynomial actuation device in mould production

## Leadership & Social Experiences

### Research Assistant in Brain-like Computing and Machine Intelligence Lab at SJTU

2016.6 ~ 2016.9

- Assist in conducting the experiments to collect different people's EEG and EOG signals
- Conduct stability analysis to ensure the accuracy in emotion recognition

### Volunteer teacher in Eryuan County, Yunnan Province

2015.12 ~ 2016.1

- Taught Maths to Grade 2 and Grade 6 students at Yong An Elementary School for a month.

### Vice Director of News Department in JI Student Union

2015.8 ~ 2016.6

- Made two college journals and one freshmen orientation handbook for UM-SJTU Joint Institute.
- Wrote 15 institute news for UM-SJTU Joint Institute.
- Held lectures to teach peers how to use Adobe Indesign to edit journals.

### Director of Practice Department in JI Youth League Committee

2015.7 ~ 2016.6

- Organized the summer and winter social practice events for 250 freshmen and sophomore students in UM-SJTU Joint Institute at Shanghai Jiao Tong University.

## Skills

### Programming Languages:

C, C++, Verilog HDL, Python, Bash, HTML5/CSS3, JavaScript (jQuery), PHP (CodeIgniter), SQL, MATLAB, MIPS Assembly

### Softwares:

Linux (Ubuntu), Windows, Microsoft Office, Adobe Photoshop/Indesign/Premiere, Git, Github, Vim, Sublime Text 2/3

Research Interests

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Machine Learning, Data Mining, Web Development (Both Front-end and Back-end)

Awards

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Undergraduate Academic Scholarship (Third-class)	2016.11
Distinguished Leadership Award for 2015-2016 Academic Year	2016.11
Dean’s list for 2015-2016 Summer Term	2016.10
Outstanding Contribution Award for Joint Institute Student Work in 2015-2016 Academic Year	2016.6
2016 Mathematic Contest for Modeling Honorable Mention	2016.4
Merit student of Shanghai Jiao Tong University	2015.10
Advanced individual in SJTU Social Practice in 2015 Summer	2015.10
Excellent League Member of Shanghai Jiao Tong University	2015.5