

# (Elliscope) Mingzhe Fang

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## EDUCATION

University of Southern California, Viterbi School of Engineering  
Bachelor of Science, Computer Science

Expected Graduation May 2017  
**GPA 3.69**

## SKILLS

**Programming Languages:**  
**Applications:**

C++, Java, HTML/CSS, JavaScript, Qt  
Visual Studio, Matlab, GitHub, Adobe Photoshop

## PROJECTS

### **StudyOn | Developer**

Fall 2014

TrojanHack Hackathon | Los Angeles

- Conceptualized StudyOn as an instant study-group-creating WebApp
- Programmed the Front End of Webapp using **HTML**, **CSS**, **JavaScript** and **Foundation Framework**
- Assisted teammate on Back End data base construction using **Parse Cloud Platform**
- **2<sup>nd</sup>** Place winner out of the 24 teams and over 100 participants

### **SCalendar | Designer and Back End Developer**

Fall 2014

HackSC Hackathon | Los Angeles

- Designed a WebApp that reads in students' customized schedule from Google Calendar and analyze time distribution and peers' ranking
- Programmed Back End data analysis functionality using **Google Calendar API** and **OAuth**

### **Cinelink | Co-Designer and Back End Developer**

Fall 2014

Comcast NBCUniversal Hackathon | Universal City

- Co-Designed a WebApp that recommends movie based on feedbacks of people in one's social network
- Implemented movie keyword search count and ranking system using **Twitter API** and **Spreadfast API**

### **Monopoly Game | C++ Class Final Project**

Spring 2014

- Created Monopoly game board using **Adobe Photoshop** and integrated customized game features in **C++**
- Designed and implemented Graphical User Interface using **Qt**

## WORK EXPERIENCE

### **USC Information Laboratory Medical Mobility Data Analysis, Research Assistant**

Summer 2014-Present

- Analyze patients' mobility data using **Principal Component Analysis** method
- Compute turning angle and moving speed using **Matlab**

### **USC Information Technology Services, Student Computer Consultant**

Fall 2014-Present

- Answer over **30** phone calls daily to help students and professors troubleshoot computer problems
- Execute **Bash commands** to address accounts, email, and networking problems
- Collaborate with a team of **38** student workers on maintaining and updating IT troubleshooting website

## COMPETITIONS

### **USC Boeing Case Competition**

Spring 2014

- Evaluated existing aircraft data and co-designed an unmanned aircraft based on power and payload data
- Optimized plane component design and reduced overall cost by 20 percent in comparison with standard model
- Presented in front of over 20 Boeing engineers and **1<sup>st</sup> Place** winner in the overall competition

## HONORS&AWARDS

- USC Academic Achievements Award in USC 2013 fall semester
- 2013 Year USC Viterbi School Dean's list
- USC Dragon Boat Rookie of the Year