

# Hsin-Mao Wu

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## Education

### **University of Southern California**

Master of Science in Computer Science

**Los Angeles, CA, USA**

May 2017

### **University of Illinois at Urbana-Champaign**

Master of Science in Financial Engineering (GPA: 3.34/4)

**Urbana, IL, USA**

December 2013

### **University of Illinois at Urbana-Champaign**

Bachelor of Science in Electrical Engineering (GPA: 3.36/4)

**Urbana IL, USA**

May 2012

## **Related Coursework:**

Analysis of Algorithms

Introduction to Computer Networks

Financial Computing

Machine Learning

Data Structures

Computer Engineering

## Skills

**Programming:** C++, C#, Visual Basic, Java, Python, Ruby    **Database:** SQL    **Research:** Matlab, R    **Tools:** Git

## Professional Experience

### **Eagle Seven Trading**

Associate Trader

**Chicago, IL, USA**

February 2014 – December 2014

- Managed positions of trading portfolios in a fast-paced environment to optimize for risk and performance under different market conditions.
- Conducted research for trading strategies using R and Bloomberg market data.
- Developed utility to estimate profit and loss in C#.

### **Pictet & Cie (Europe) S.A., Hong Kong Branch**

Discretionary Portfolio Management Intern

**Hong Kong, China**

May 2013 – August 2013

- Developed software tools to back-test various figures of value-at-risk.
- Determined regression factors for the group's actively managed portfolio using a large database of historical values.
- Explored various different factors in a multivariate regression in order to capture price momentum and portfolio performance indicators.
- Implemented Monte-Carlo simulation to forecast day-to-day portfolio performance.

### **Rogers Research Group**

Undergraduate Research Assistant

**Urbana, IL, USA**

June 2011 – January 2012

- Worked extensively in cleanroom facilities to fabricate semiconductor devices for the Electronic Fly-Eye project.
- Attained proficiency in laboratory procedures and equipment use.

### **Good Mind Industries Co., Ltd.**

Intern

**Kaohsiung, Taiwan**

June 2010 – July 2010

- Validated set-top box samples before shipment to clients.
- Designed and wrote product related documents.

## Projects

### **Maoshouse**

Party Tracker

**Chicago, IL, USA**

May 2014 – September 2014

- Published a Windows Phone 8.1 application written in C# that utilizes geolocation and Bluetooth to allow users to track a group of selected peers.

### **Nanex, LLC**

Practicum Project

**Urbana, IL, USA**

August 2013 – December 2013

- Wrote multi-threaded C++ programs to parse large sets of exchange information.
- Filtered and analyzed dataset in R to identify extraneous market events such as over-quoting and exchange movements.

### **CS 446 Machine Learning**

Partly Sunny with a Chance of Hashtags

**Urbana, IL, USA**

August 2013 – December 2013

- Conducted Twitter text classification and sentiment analysis using Python and Scikit-Learn.

### **ECE 445 Senior Design Project**

Improvement to Wake-on-LAN

**Urbana, IL, USA**

August 2011 – December 2011

- **Won the iteration's ECE 445 Hall of Fame: Area Award in Networking.**
- Developed and wrote a software-based Wake-on-LAN solution that monitors and routes network traffic to sleeping computers.