

# Chun Yu Hong (Johnny)

2333 College Ave., Apt. 315E,  
Berkeley, CA 94704  
Phone: (510) 676-8616  
Email: jcyhong@berkeley.edu  
Website: jcyhong.github.io

## EDUCATION

### Ph.D. student in Statistics

University of California, Berkeley

Research interest: statistical computing, Bayesian modeling, latent variable models in applied sciences

Advisor: Perry de Valpine (Department of Environmental Science, Policy, and Management)

August 2014 - Present

*Expected May 2019*

### B.S. in Applied Mathematics (with Honors)

### B.S. in Statistics (with Honors)

University of California, Davis

September 2011 - June 2014

## EXPERIENCE

### Graduate Student Instructor (Teaching Assistant)

UC Berkeley Department of Statistics

- Grades exams, and occasionally suggests exam questions.
- Holds weekly lab sections and office hours, answering students' questions about the class materials.

September 2014 - Present

Berkeley, CA

STAT 134 (Concepts of Probability)

STAT 153 (Introduction to Time Series Analysis)

STAT 134 (Concepts of Probability)

STAT 222 (Statistics MA Capstone Project)

STAT 210A (Theoretical Statistics) (Grader)

STAT 135 (Concepts of Statistics)

STAT 135 (Concepts of Statistics)

STAT 133 (Concepts in Computing with Data)

January 2017 - Present

August 2016 - December 2016

January 2016 - May 2016

January 2016 - May 2016

September 2015 - December 2015

August 2015 - December 2015

June 2015 - August 2015

September 2014 - December 2014

### Data Science Intern

Adobe Systems Incorporated

- Developed models for churn forecasting using time series analysis and machine learning techniques
- Created interactive visualization of model performance via R shinyApp
- Mentors: Eugene Chen, Jian Li

June 2016 - August 2016

San Jose, CA

### Statistical Consultant

UC Berkeley Department of Statistics

- Provided statistical guidance for researchers (primarily for UC Berkeley students) in various disciplines, such as psychology, biology, and economics.
- Discussed statistical issues such as experimental design and hypothesis testing procedures.

January 2016 - May 2016

Berkeley, CA

### Undergraduate Researcher

UC Davis Department of Mathematics

- Developed the first version of the program in Sage for computation and experimentation with the 1-row Gomory-Johnson infinite group problem
- Advisor: Matthias Köppe.

August 2013 - September 2013

Davis, CA

### Mathematics Tutor

Student Academic Success Center

- Emphasized interactive learning by asking students questions instead of routinely presenting the solutions when solving problems.

November 2012 - August 2014

Davis, CA

## PROJECTS

### **An introduction to the use of hidden Markov models for stock return analysis**

- Final group project for the graduate-level course Statistical Learning Theory
- Project Role: Developed a hidden Markov model (HMM) for volatility analysis of stock returns; implemented the model in R

## COMPUTER SKILLS

Proficient programming skills in R; some experience in Python, C, C++, and MATLAB (mainly from undergraduate coursework).

## EXAMS

Actuarial Exam P - Probability: Pass (Grade: 10)

July 2013

## HONORS AND AWARDS

Dean's List

UC Davis; Fall 2011 - June 2014

Joseph Bonnheim Memorial Scholarship

UC Davis; Spring 2012, Spring 2013

Eric C. Ruliffson Scholarship in Mathematics

UC Davis; Spring 2012, Spring 2013

James and Leta Fulmor Scholarship

UC Davis; Spring 2012

Robert Lewis Wasser Memorial Scholarship

UC Davis; Spring 2012

## VOLUNTARY EXPERIENCE

### **Math Circle Teaching Assistant**

January 2013 - March 2013

University of California, Davis

Davis, CA

- Worked with a graduate student in teaching high school students elementary graph theory.
- Revised lesson plans and worksheets authored by the graduate student.
- Designed and taught independently one of the lessons.