

Chun Yu Hong (Johnny)

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EDUCATION

Ph.D. student in Statistics
University of California, Berkeley

August 2014 - Present
Expected May 2019

Potential relevant coursework: Statistical Models: Theory and Application (STAT 215A),
Statistical Learning Theory (STAT 241A)

B.S. in Applied Mathematics (with Honors)
B.S. in Statistics (with Honors)
University of California, Davis

June 2014

Potential relevant coursework: Statistical Computing (R) (STA 141), Regression Analysis (STA 108),
Applied Time Series Analysis (STA 137), Bayesian Statistical Inference (STA 145)

EXPERIENCE

Data Science Intern
Adobe Systems Incorporated

June 2016 - August 2016
San Jose, CA

- Developed models for churn forecasting using time series analysis and machine learning techniques
- Created interactive visualization of model performance via R shinyApp

Statistical Consultant
UC Berkeley Department of Statistics

January 2016 - May 2016
Berkeley, CA

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

Graduate Student Instructor (Teaching Assistant)
UC Berkeley Department of Statistics

September 2014 - Present
Berkeley, CA

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

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)

August 2016 - Present
January 2016 - May 2016
January 2016 - May 2016
September 2015 - December 2015
August 2015 - December 2015
June 2015 - August 2015
September 2014 - December 2014

Undergraduate Researcher
UC Davis Department of Mathematics

August 2013 - September 2013
Davis, CA

- Developed the first version of the code of Sage program for computation and experimentation with the 1-row Gomory-Johnson infinite group problem under the supervision of Professor Matthias Köppe.

Mathematics Tutor
Student Academic Success Center

November 2012 - August 2014
Davis, CA

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

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

EXTRACURRICULAR ACTIVITIES

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.