Chun Yu Hong (Johnny)

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EDUCATION

Ph.D. student in Statistics — August 2014 - Present
University of California, Berkeley — *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) — June 2014
B.S. in Statistics (with Honors)
University of California, Davis

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 — June 2016 - August 2016
Adobe Systems Incorporated — 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 — January 2016 - May 2016
UC Berkeley Department of Statistics — 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) — September 2014 - Present
UC Berkeley Department of Statistics — 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)	August 2016 - Present
STAT 134 (Concepts of Probability)	January 2016 - May 2016
STAT 222 (Statistics MA Capstone Project)	January 2016 - May 2016
STAT 210A (Theoretical Statistics) (Grader)	September 2015 - December 2015
STAT 135 (Concepts of Statistics)	August 2015 - December 2015
STAT 135 (Concepts of Statistics)	June 2015 - August 2015
STAT 133 (Concepts in Computing with Data)	September 2014 - December 2014

Undergraduate Researcher — August 2013 - September 2013
UC Davis Department of Mathematics — 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 — November 2012 - August 2014
Student Academic Success Center — 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 Statisical 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.