Haipeng GAO

CONTACT INFORMATION

WEBSITE: hg90.github.io EMAIL: gaoh@live.unc.edu

SCHOOL: Hanes Hall B4, Chapel Hill, NC, 27599

INDUSTRY EXPERIENCE

Aug 2018 | Summer Intern at PayPal | San Jose, CA

May 2018- | Global Risk & Data Science, Merchant Risk Modeling team

Developed non-homogeneous hidden Markov models to forecast merchants' activities. Implemented adaptive machine learning models and Super Learners for merchant risk

detection at both transaction and account levels using Python, Hadoop, h2o.

Aug 2017 | Summer Intern at UNC Management Company | Chapel Hill, NC

May 2017- Investment Strategy & Risk Management

Developed and maintained non-homogeneous hidden Markov models to support team's directional strategy on stock market indices. Developed change-point detection to sup-

port team's momentum strategies on indices, using R and Python.

EDUCATION

University of North Carolina at Chapel Hill | Chapel Hill, NC

MAY 2019 PhD in Interdisciplinary Statistics and Operations Research

Dissertation: "Bayesian Inference on Stochastic Cusp Catastrophe Models"

Under supervision of Prof. CHUANSHU JI

Courant Institute of Mathematical Sciences, NYU | New York, NY

MAY 2015 MS in MATHEMATICS

University of North Carolina at Chapel Hill | Chapel Hill, NC

DEC 2012 BS Highest Distinction in APPLIED MATHEMATICS, minor in MATHEMATICAL DECISION SCIENCE

TEACHING EXPERIENCE

current | Instructor at University of North Carolina | Chapel Hill, NC

Jan 2017- Department of Statistics and Operations Research

Taught Introduction to Data Models and Inference (STOR 155) in Spring 2017, Fall 2017, Spring

2018 and Fall 2018, class size of 50 students

COMPUTER SKILLS

Data Science: Python (with Scikit-learn, tensorflow, h2o), Hadoop, Spark, Matlab

Programming: Python, JAVA, C/C++, Git/GitHub

INTERESTS AND ACTIVITIES

Participated in NYU Intramural Basketball in Spring 2014 Personal investment on US equity