

Youyuan Kong

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Education

Arcadia University, Glenside, PA

Bachelor of Science in Actuarial Science (GPA 3.9/4)

Jiangsu University, Zhenjiang, China

Bachelor of Science in Mathematics and Applied Mathematics

May 2021

Actuarial Science Exam Progress

Exam FM and P: Passed— first try

Jun and Jan 2020

Relevant Course Work: Calculus I, II, III; Financial Accounting; Financial Mathematics; Short Term

Actuarial Mathematics; Mathematical Statistics; Actuarial Science Research Capstone.

Research Experience

Summer Research Project at Arcadia University

May 2020- Aug 2020

Calibration of the SEIR Model for COVID-19

- Analyzed and predicted the spread of COVID-19 in Philadelphia
- Used the method of ordinary differential equation (ODE) model and Infectious Disease Modelling (IDM)
- Achieved maximum infected rate likelihood estimation (MLE) and Markov chain Monte Carlo (MCMC)
- Studied the correlation between mobility and infected rate by linear regression

Actuarial Science Research Capstone with Society of Actuaries

Jan 2020- May 2020

Carbon Credit Program (2020 SOA Student Research Case Study Challenge)

- Searched for exponential models and methods to estimate social cost of carbon
- Used Kaya Identity and time series to estimate the carbon price in the future
- Set the issuance frequency of carbon credits and dealt with missing data

Participant of the 7th Jiangsu University Mathematical Contest in Modeling

May 2018

Except the number of trains tickets to go home will be purchased by some students

- Analyzed and estimated the correlation between trains and tickets' information in the past year
- Constructed the logistic regression simulating relationships among students' choices and trains' states
- Used the constructed model to estimate students' choice for purchasing which kinds of tickets

Working Experience

Office Minister of Psychological Association in College of Science, Jiangsu University

Sep 2018-Jun 2019

- Edited press releases and conclude each activity
- organized some activities like psychodrama competition

Supporting college students of Chungongyi Social Service Center

Jul 2018-Aug 2019

- Participate in summer supported teaching activities
- Taught students and organized some activities for them

Member of personnel administration of student union of college of science

Sep 2017-Jun 2018

- Learned how to reimbursement and contact with University's accounting apartment

Awards and Honors

Dean's Distinguished in Arcadia University

Jun 2020

Dean's Honor List in Arcadia University

Jan 2020

The Third Prize Scholarship in Jiangsu University

Sep 2019

Merit Student and The Third Prize Scholarship in Jiangsu University

Sep 2018

Skills

Computer: JAVA, LaTeX, R, Python and Microsoft Office

Languages: English and Chinese