

QI QI

+1(650)438-6543 ◇ qi.qi@gene.com ◇ <https://www.qiqi-stat.com>

EDUCATION

University of Connecticut Ph.D. Statistics, Department of Statistics Thesis: <i>Statistical Methods for Longitudinal Data with Applications to Dementia and Human Microbiome Projects.</i> Committee: Dr. Lynn Kuo (Main advisor), Dr. Ming-hui Chen and Dr. Xiaojing Wang	2017 - 2020
University of Connecticut M.S. Statistics, Department of Statistics	2015 - 2017
Renmin University of China B.S. Statistics, School of Statistics	2011 - 2015

WORK EXPERIENCE

Statistical Scientist: Genentech <ul style="list-style-type: none">Work on the Phase III trial of Fenebrutinib for Multiple Sclerosis.Conduct QT study for Fenebrutinib.	Aug 2020 - present
Research Fellow: Boehringer - Ingelheim <ul style="list-style-type: none">Conducted research for potential type I error inflation if using Chronic slope to assess treatment effect. Promoted random change point model regarding preserved type I error rate.Conducted research for exposure-response analysis and construct segmented sigmoid Emax model for Phase II dose finding study.	Dec 2019 - Jul 2020
Internship: Boehringer - Ingelheim <ul style="list-style-type: none">Established change point detection model based on stochastic process and applied to Chronic Kidney Disease (CKD) data.	May 2019 - Aug 2019
Research Assistant: Albert Einstein College of Medicine <ul style="list-style-type: none">Conducted analyses to evaluate a new memory impairment classification system and investigated the prediction performance on Alzheimer's Disease.	Aug 2017 - Dec 2019
Statistical Consultant: University of Connecticut <ul style="list-style-type: none">Presented workshops: <i>Variable Selection with Demos in R</i> and <i>Survival Study Design and Analysis</i>.Conducted R shiny apps to visualize the occupancy of classrooms at University of Connecticut. Built a web-page for registrar office to describe the difficulties of classroom schedule and analyze the compliance of standard meeting pattern.Completed several full projects, provided walk-in and online service.	Aug 2017 - May 2019

RESEARCH INTERESTS

Longitudinal Data Analysis, Survival Analysis, Joint Modeling, Multi-stage Analysis, Stochastic Models, Data Visualization, Bayesian Methods, Machine Learning, Statistical Computing.

TECHNICAL SKILLS

R (mainly using packages *nimble*, *ggplot2*, *shiny*, *dplyr*, *R2jags*, *vegan*, *phyloseq*, etc.), SAS, SQL, Python, BUGS, JAGS, SPSS, AMOS, Matlab, Stata, L^AT_EX, Github, Mathematica

LEADERSHIP AND SCIENTIFIC ACTIVITIES

- | | |
|--|------|
| • Committee Member: Conference on Bayesian Modeling, Computation and Applications | 2018 |
| • Session Chair:
– Joint Statistical Meeting | 2019 |

WORKING PAPERS

- Qi Qi, Lynn Kuo, Susan Resnick, Ellen Grober. A Bayesian Joint Model of Longitudinal Ordinal Outcomes and Time-to-Event Data.
- Qi Qi, Lynn Kuo, Ming-Hui Chen, Yanjiao Zhou. A Bayesian Multistage Model for Joint Transitional Data.
- Qi Qi, Lynn Kuo, Yanjiao Zhou. A Bayesian Transitional Model for High Dimensional Data with Application to Human Microbiome Project.
- Yaoshi Wu, Wansuk Choi, Qi Qi, Zhichao Sun, Qiqi Deng, Brian Jin. A Random Change Point Model Using Stopping Time of Poisson Process for Estimating Two Intersecting Lines.
- Yaoshi Wu, Qi Qi. A Random Two-change-point Model Using Stopping Time of Poisson Process and Estimation Function for Estimating Three Intersecting Lines.
- Yaoshi Wu, Qi Qi. Segmented Emax model of exposure-response relationship for clinical trials.
- Ellen Grober, Qi Qi, Lynn Kuo, Jason Hassenstab, Richard J. Perrin, Richard B. Lipton. Stages of Objective Memory Impairment Predict Alzheimer's Disease Neuropathology.
- Ellen Grober, Qi Qi, Lynn Kuo, Jason Hassenstab, Richard J. Perrin, Richard B. Lipton. The Free and Cued Selective Reminding Test Predicts Braak Stage.

WORK IN PROGRESS

- Qi Qi, Lynn Kuo, Susan Resnick, Ellen Grober. A Multi-stage Stochastic Transitional Model with Application to Baltimore Longitudinal Study of Aging.

PRESENTATIONS

Interactive Visualization of Housing Condition Changes in NYC 2019
Speed presentation and e-poster for data challenge competition: *Joint Statistical Meeting (JSM)*

Predicting Alzheimer's Disease Using a New Classification System Based on Objective Memory Impairment Assessment 2019
Poster session for student paper competition: *the 33rd New England Statistics Symposium (NESS)*

A Multi-Stage Stochastic Model in the Analysis of Longitudinal Data 2018
Invited presentation: *Conference on Bayesian Modeling, Computation and Applications*

TEACHING EXPERIENCE

- Instructor, Introduction to Mathematical Statistics II (STAT 3345)
 - Spring 2019, Teaching Evaluation: 4.0 out of 5, Class Size: 41
- Instructor, Discussion Section of Introduction to Statistics (STAT 1000Q) and Elementary Concepts of Statistics (STAT 1100Q)
 - Fall 2018, Spring 2018, Fall 2017, Spring 2017, Class Size: 12
- Teaching Assistant, Advanced Probability (STAT 6325)
 - Fall 2018