QI QI

+1(860)771-3086 ⋄ kikivayne007@gmail.com ⋄ https://www.qiqi-stat.com

EDUCATION

University of Connecticut 2017 - 2020
Ph.D. Statistics, Department of Statistics
Thesis: *Statistical Methods for Longitudinal Data with Applications to Dementia and Human Microbiome Projects.*
Committee: Dr. Lynn Kuo (Main advisor), Dr. Ming-hui Chen and Dr. Xiaojing Wang

University of Connecticut 2015 - 2017
M.S. Statistics, Department of Statistics

Renmin University of China 2011 - 2015
B.S. Statistics, School of Statistics

WORK EXPERIENCE

Statistical Scientist: Genentech Aug 2022 - present

- Being study lead statistician for multiple clinical trials.
- Collaborate with different functions, including clinical science, operation, safety, pharmacokinetics, biomarker, imagining science, etc.
- Author study documents (protocol, statistical analysis plan, clinical study report, conferences/publications, etc.), being responsible for study design & sample size calculation, conduct statistical analyses, QC statistical outputs.
- Lead a successful study read-out (Press Release).

Research Fellow: Boehringer - Ingelheim Dec 2019 - Jul 2020

- 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.

Internship: Boehringer - Ingelheim May 2019 - Aug 2019

- Established change point detection model based on stochastic process and applied to Chronic Kidney Disease (CKD) data.

Research Assistant: Albert Einstein College of Medicine Aug 2017 - Dec 2019

- Conducted analyses to evaluate a new memory impairment classification system and investigated the prediction performance on Alzheimer's Disease.

Statistical Consultant: University of Connecticut Aug 2017 - May 2019

- Presented workshops: *Variable Selection with Demos in R* and *Survival Study Design and Analysis.*
- 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.

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, LaTeX, Github, Mathematica