YUE(Paddy) TU

EDUCATION

2019-Present **UNIVERSITY OF SOUTHERN CALIFORNIA** **LOS ANGELES, CA**
Ph.D. in Biostatistics
- GPA: 3.8/4.0

2016-2018 **COLUMBIA UNIVERSITY MAILMAN SCHOOL OF PUBLIC HEALTH** **NEW YORK, NY**
M.S in Biostatistics
- GPA: 4.0/4.0

2012-2016 **UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)** **LOS ANGELES, CA**
B.S. in Biochemistry, Minor in Accounting
- GPA: 3.8/4.0

Honors:
USC Provost Graduate School Fellowship, Latin Honor - magna cum laude, Golden Key International Honor Society

- Relevant courses: Statistical Methods in Clinical Trial, Advanced Statistical Computing, Machine Learning, Design of Medical Experiments, Algorithms, Survival Analysis, Longitudinal Analysis, Pharmaceutical Statistics, Linear Regression, Inference

WORK EXPERIENCE

06/2018-08/2019 **BRIGHTECH INTERNATIONAL, LLC** **SOMERSET, NJ**
SAS and R Programmer
- Programmed in R for generalized adaptive trial design simulation by applying Brownian motion method
- Created statistically tables, figures and listings for clinical trial data using SAS

09/2017-12/2017 **COLUMBIA UNIVERSITY DEPARTMENT OF BIOSTATISTICS** **NEW YORK, NY**
Teaching Assistant for Introduction to Biostatistics
- Led recitations twice a week
- Created SAS lab problem sets to reinforce lecture concepts

06/2017-09/2017 **GENENTECH** **SAN FRANCISCO, CA**
Statistical Programming Analysis – Data Analytics Intern
- Collaborated with Biostatisticians in exploring early endpoints for predicting asthma exacerbations
- Constructed logistic regression models based on univariate area under the curve (AUC) and LASSO for variable selection on training dataset and compare models performance on test dataset using R

RESEARCH EXPERIENCE

08/2021-Present **BIOMARKER CLINICAL TRIAL DESIGN** **LOS ANGELES, CA**
Research Assistant of Dr. Lindsay Renfro at USC
- Developed adaptive randomization method with a single continuous biomarker using Bayesian modeling
- Conducted literature review on basket trial and adaptive enrichment trial designs

06/2018-08/2019 **GENERALIZED ADAPTIVE DESIGN FOR CLINICAL TRIAL** **SOMERSET, NJ**
Statistical Programmer of Dr.Ping Gao at Brightech International LLC
- Implemented methods of sample size re-estimation and simulated to derive unbiased inference
- Calculated a new type of critical boundary controlling type I error for seamless Phase II and III trial

01/2016-06/2016 **INVESTIGATION OF GENETIC CAUSES FOR OPTIC NERVE HYPOPLASIA**
Research Assistant of Dr. Wenhui Li at CHLA **LOS ANGELES, CA**
- Performed Next-Generation sequencing data analysis for 40 families
- Extracted DNA for ONH research samples

10/2014-03/2015 **INVESTIGATION OF PHARMACOKINETICS OF 3-AP, DI-82, VE-822 BY ORAL PRESCRIPTION AND INJECTION PRESCRIPTION** **LOS ANGELES, CA**
Research Assistant of Dr. Cauis Radu at UCLA
- Collected sample data files of 3-AP, DI-82, VE-822 and calculated sum of iron transition
- Analyzed drug's pharmacokinetics in plasma and found oral prescription of 3-AP was better method

LEADERSHIP EXPERIENCE

09/2016-12/2017 **CAREER CHINA AT CUMC** **NEW YORK, NY**
Secretary
- Carried administrative duties for the club

09/2014-03/2016 **UNITED NATIONS ASSOCIATION AT UCLA** **LOS ANGELES, CA**
Finance Committee Director
- Organized fundraising activities and applied funding for the club

COMMUNITY SERVICE EXPERIENCE

09/2013-10/2014 VOLUNTEER INCOME TAX ASSISTANCE LOS ANGELES, CA

- Provided free income tax assistance to around 30 students and low-income taxpayers

PUBLICATION

- Xie T, Zhang P, Shih WJ, **Tu Y** & Lan KK.(2021): *Dynamic Monitoring of Ongoing Clinical Trials,* Stat Biopharm Res, DOI: 10.1080/19466315.2021.1880965

ADDITIONAL

Language Skills: Bilingual English and Mandarin Chinese
Computer Skills: R, R-Shiny, Python, SAS, SQL, Stata, Git, Latex, Microsoft Office (Excel, Word, PowerPoint)
Certificate: SAS Certified Base Programmer for SAS 9, SAS Certified Advanced Programmer for SAS 9, Earned CFA Level I