YUE (Paddy) TU

EDUCATION				
EDUCATION 2019-Present	UNIVERSITY OF SOUTHERN CALIFORNIA	LOS ANGELES, CA		
(Expected 2024)	Ph.D. Student in Biostatistics	LUS ANGELES, CA		
(Expected 2024)	• GPA: 3.8/4.0			
	 Thesis Title: Bayesian Biomarker-Adaptive Clinical Trial Design Algorithms for Peters 	ersonalized Medicine in		
	Oncology			
	Advisor: Dr. Lindsay Renfro			
	Honors: USC Provost Graduate School Fellowship			
	Relevant Courses: Advanced Statistical Computing, Algorithms, Statistical Method	s in Clinical Trial.		
	Theory of Statistics, High-Dimensional Data Analysis, Design of Clinical Studies	,		
2016-2018	COLUMBIA UNIVERSITY MAILMAN SCHOOL OF PUBLIC HEALTH	NEW YORK, NY		
2010-2010	M.S in Biostatistics			
	• GPA: 4.0/4.0			
	Practicum Title: Exploring Early Endpoints for Predicting Asthma Exacerbations			
	• Relevant Courses: Machine Learning, Design of Medical Experiments, Survival Analysis, Longitudinal			
Analysis, Pharmaceutical Statistics, Linear Regression, Inference, Categorical Data Anal				
	Generalized Linear Models			
2012-2016	UNIVERSITY OF CALIFORNIA, LOS ANGELES	LOS ANGELES, CA		
	B.S. in Biochemistry, Minor in Accounting			
	• GPA: 3.8/4.0			
	Honors: Latin Honor - magna cum laude, Golden Key International Honor Society			
	Relevant courses: Linear Algebra, Calculus of Several Variables, Statistical Program	nming with R		
WORK EXPERI	IENCE			
06/2018-08/2019	BRIGHTECH INTERNATIONAL, LLC/CIMS GLOBAL	SOMERSET, NJ		
	SAS and R Programmer			
	• Developed simulations for generalized adaptive trial design by applying Brownian r	notion method using R		
	• Pioneered the statistical support for a software program in trial designs and dynamic monitoring using R			
	and R-Shiny, which was later applied in the Chinese Clinical Trials of Remdesivir in	n treating patients with		
	COVID-19			
	 Represented the company to attend JSM EXPO Booth to evangelize the about to launch software Created statistical tables, figures and listings for clinical trial data using SAS 			
	• Participated in the study of pomalidomide(Pomalyst), which is the first new FDA ap	proved Kaposi		
00/2017 12/2017	sarcoma treatment in 20 years	NEW VODZ NV		
09/2017-12/2017	COLUMBIA UNIVERSITY DEPARTMENT OF BIOSTATISTICS <i>Teaching Assistant for Introduction to Biostatistics</i>	NEW YORK, NY		
	 Led recitations twice a week 			
	 Created SAS lab problem sets to reinforce lecture concepts 			
06/2017-09/2017	• •	AN FRANCISCO, CA		
00/201/-09/201/	Statistical Programming Analysis – Data Analytics Intern	AN FRANCISCO, CA		
	 Collaborated with Biostatisticians in exploring early endpoints for predicting asthma 	evacerbations using		
	data from trial LAVOLTA I and II	a exacerbations using		
	 Constructed logistic regression models based on univariate area under the curve (AU) 	JC) and LASSO for		
	variable selection on training dataset and compare models performance on test datas			
09/2014-01/2015	UCLA STUDENT CALL CENTER	LOS ANGELES, CA		
	Student Caller			
	• Contacted alumni for the University to raise support for the UCLA fund			
08/2014-10/2014	CANBRIDGE LIFE SCIENCES LTD.	BEIJING, CHINA		
	Intern			
	• Researched mechanism of action of caphosol (oral mucositis treatment) and promot	ed the development		
	and launch of caphosol in China			
RESEARCH EXPERIENCE				
08/2021-Present	BAYESIAN BIOMARKER-ADAPTIVE CLINICAL TRIAL DESIGN ALGORIT			
	PERSONALIZED MEDICINE IN ONCOLOGY	LOS ANGELES, CA		
	Research Assistant of Dr. Lindsay Renfro at USC			
	• Developing adaptive randomization trial design with continuous biomarkers using Bayesian modeling			
0/10010 00/2010	• Conducted literature review on basket trial and adaptive enrichment trial designs	COMEDORE NI		
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 c	lerive 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 su	m of iron transition	
	Analyzed drug's pharmacokinetics in plasma and found oral prescript	ion 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-inc	come taxpayers	
PUBLICATION	NS		
• Tu Y, Rei	nfro L.A. (2021): Biomarker-Driven Basket and Enrichment Designs: New I	Developments, In preparation.	
• Xie T, Zh	ang P, Shih WJ, Tu Y & Lan KK.(2021): Dynamic Monitoring of Ongoing	Clinical Trials, Stat Biopharm Res,	

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PRESENTATIONS

- **Tu Y** (2020): *Biomarker Clinical Trial Design for Cancer Therapy*, Seminar in Biostatistics and Epidemiology. Keck School of Medicine, USC. Online.
- **Tu Y** (2019): *Efficiency with Trade-Offs and Crossover Design*, Seminar in Biostatistics and Programming. Brightech International LLC. Somerset, NJ.
- **Tu Y** (2018): *Overview of Clinical Trial*, Seminar in Biostatistics and Programming. Brightech International LLC. Somerset, NJ.
- **Tu Y**, Borkowsky J, Jones C, Yang X (2017): *Exploring Early Endpoints for Predicting Asthma Exacerbations*, Seminar in Biometric, Statistical programming and Analysis. Genentech. San Francisco, CA.
- **Tu Y**, Bo C (2017): *Introduction to ggplot2*, Seminar in Biometric, Statistical programming and Analysis. Genentech. San Francisco, CA.

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