Jingyi Tang

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EDUCATION

Columbia University in the City of New York, New York City, NY   Present
Master of Science, Biostatistics, Statistical Genetics track
- Course Highlight: Data Science I, Biostatistics Method I & II, Relational Databases and SQL Programming
- GPA: 3.82/4.00

The University of Iowa, Iowa City, IA   May 2018
- GPA: 3.77/4.00
- Dean's List: June 2014 – May 2018

Bachelor of Science, Statistics, Mathematical track
- Course Highlight: Statistical Methods and Computing, Bayesian Statistics, Experimental Design and Analysis, Applied Linear Regression, Mathematical Statistics I & II, Computer Science I

Bachelor of Arts, Asian Language and Studies, Japanese

WORK & INTERNSHIP EXPERIENCE

Teaching Assistant   August 2020 – Present
Columbia University in the City of New York, New York City, NY, USA
- Assist and mentor students in group and on individual basis for Introduction to Biostatistical Methods and Relational Databases and SQL Programming
- Coummunicate with students through emails and hold weekly office hours for Q&A sessions as well as review sessions

Research Assistant   June 2020 – Present
Memorial Sloan Kettering Cancer Center, New York City, NY, USA
- Work on the batch effect and normalization process of Gastric Adenocarcinoma data from TCGA dataset
- Utilize R mainly with tidyverse, precision, TCGAbiolinks, Bioconductor packages to tidy and conduct analysis on TCGA dataset

Instructor   January 2019 – Present
New Chanel, Changsha, Hunan, China
- Taught and facilitated 25-people daily classes and one-to-one individual sessions for GRE verbal courses, A-level courses, and AP courses in Statistics, Mathematics, Computer Science and Economics
- Aided program director to develop systematic evaluation questions and lesson planning

Data Analyst   September 2018 – December 2018
Hunan Television, Changsha, Hunan, China
- Analyzed, evaluated and examined data on real-time Nielsen ratings to deliver analysis and reports
- Communicated and counseled with customers as well as supervisors on the advised price for different commercials
- Incorporated R into the data analysis process which enhanced the efficiency by about 20% compared to the old method

Supplemental Instruction Leader   August 2016 - May 2018
Academic Resource Center, University of Iowa, Iowa City, IA, USA
- Mentored and led students to gain a deeper understanding of the subject which resulted in 0.33 increase in GPA on average
- Designed and facilitated the collaborative learning activities for small groups as well as large groups of students for 3 sessions per week during each semester
- Assisted the hiring process of perspective Supplemental Instruction leaders by interviewing candidates
- Completed monthly and biweekly administrative tasks on a time basis, such as attending meetings and writing a lesson plan

Tippie Learning Coach Lead Tutor   January 2016 – May 2018
Tippie College of Business, University of Iowa, Iowa City, IA, USA
- Aided program supervisor, other tutors, and faculty with biweekly outreach communications and meetings
- Tailored Tippie Learning Coach experience to be a student-centered academic support program for larger lectures that contained over 300 students each semester
- Modified and inspected the regulations for tutors as well as supervisors in Tippie Learning Coach program
- Empowered fellow tutors on redirecting questions and enhancing students' performance by holding a workshop on the subject
- Boosted the performances and grades of tutees

Academic Resource Center Tutor   August 2015 – December 2015
Academic Resource Center, University of Iowa, Iowa City, IA, USA
- Provided academic assistance and welcoming environment for students in the subject of Statistics for Business
- Facilitated small groups of 5-10 students as well as one-on-one tutoring help

TEAM & INDIVIDUAL PROJECT

Exploring Vague Priors on a Variance Component in an LME Model
- Followed up with Brain Smith's research on PET images of cancer patient neck and head to investigate the influence of vague priors and the problem of how operators affect the average of the measurements

- Programmed and test ran in OpenBUGS and R with different priors for the variance component
- Delivered the presentation and organized the results

Epigenome-wide Association Studies between DNA Methylation and Stomach Adenocarcinoma
- Tidied and prepared data from The Cancer Genome Atlas database with a chosen topic on Gastric Adenocarcinoma
- Programmed and methods such as Principle Component Analysis, K-means Clustering with R to deliver visual as well as numerical results to draw conclusions
- Integrated information gathered in the tests and data to form a written report

SKILLS
R, SQL, SAS, OpenBUGS, Microsoft Word, PowerPoint, Excel, Access, Python
Fluent in Chinese, English, and Japanese