Rachel Tsong

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SKILLS

Languages/Technologies:
R • SAS • SQL
MPlus • Git • GitHub
Microsoft Office • MySQL
Soft Skills:
Teamwork • Communication • Writing
Adaptability • Leadership • Organization

EDUCATION

COLUMBIA UNIVERSITY MAILMAN SCHOOL OF PUBLIC HEALTH
MS Biostatistics
May 2020 | New York, NY
GPA: 3.89

UNIVERSITY OF ARIZONA HONORS COLLEGE
BS Ecology & Evolutionary Biology
BS Environmental Science
Magna Cum Laude
Dec 2014 | Tucson, AZ
GPA: 3.79

COURSEWORK

GRADUATE
Biostatistical Methods I & II
Relational Databases & SQL
Data Science I & II

UNDERGRADUATE
Systematic Botany
Genetics
Human Health Risk Assessment
Fundamentals of Public Health
Honors Technical Writing

AWARDS & HONORS

Data Science Institute Scholar:
• Awarded $5000, Feb 2020
University of Arizona Outstanding Graduating Senior:
• Recipient for the Ecology & Evolutionary Biology Dept., Dec 2014

EXPERIENCE

GRADUATE RESEARCH ASSISTANT | Columbia University
Jun 2019 – present | New York, NY | 10-20 hrs/wk, end pay $25/hr
- Report results of exploratory data analysis, create new variables, and clean data from a large, longitudinal, open-cohort study
- Perform statistical analysis such as latent class analysis and GEE using MPlus/R and write meticulously commented code using GitHub for version control and collaboration
- Create publication worthy figures and help prepare manuscript for submission
- Solve statistical issues by consulting literature and software documentation
- Started as unpaid intern and promoted to paid position

GRADUATE RESEARCH ASSISTANT | Columbia University
Jan 2020 – present | New York, NY | 20-25 hrs/wk, $23/hr
- Prepare manuscripts, conduct literature reviews, assist in grant writing for a project examining social risk factors of cognitive disorders
- Juggle multiple projects, tasks, and deadlines including handling data requests, IRB approvals, and other research related duties
- Use SAS/R to conduct statistical analyses such as regression discontinuity, survival analysis, and marginal structural models

TEACHING ASSISTANT | Columbia University
Aug 2019 – Dec 2019 | New York, NY | 15 hrs/wk, $4000 stipend
- Attended class and answered student questions during in-class activities for an introductory biostatistics course
- Held office hours twice a week and reported student concerns to instructor
- Created new homework questions, answer keys, and graded homeworks, labs and quizzes
- Created and presented introductory SAS tutorial for students

DATA SCIENCE INSTITUTE SCHOLAR | Columbia University
Feb 2019 – Dec 2019 | New York, NY | 15 hrs/wk, $5000 stipend
- Used RNA-seq data derived from a mouse model of bladder cancer to discover genes associated with bladder cancer progression and then used GSEA to test the mouse gene signature against human bladder cancer progression
- Compiled collection of publicly available clinical and genomic human bladder cancer datasets
- Created publication worthy heatmaps and other figures

VOLUNTEERING & LEADERSHIP

COVID-19 STUDENT SERVICE CORPS | Team Member
Mar 2020 – present
Compiled list of published scientific literature articles regarding COVID-19, assessed for quality, and summarized information for dissemination to healthcare workers

ALPHA ZETA HONORARY | Vice President
Aug 2013 – Dec 2014
Organized meetings, coordinated volunteer opportunities, and planned events for the Arizona chapter of an honorary fraternity of approximately 20 members