TIANNA OUYANG

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EDUCATION

Columbia University, Mailman School of Public Health, New York, NY   Expected May 2020

Master of Public Health (MPH), Biostatistics, Certificate in Comparative Effectiveness Outcomes Research

- Relevant Coursework: Cost Effectiveness Analysis, Health Systems, Health Economics, SQL programming, Public Health GIS, Linear Regression Models, Multivariate Regression, Analysis of Categorical Data, Data Science

Sun Yat-Sen University, Guangzhou, China   June 2018

Bachelor of Science (BS), Biotechnology

- Academic honors: Academic Excellence Scholarship, DBN Encouragement Scholarship

WORK AND RESEARCH EXPERIENCE

United Nations Population Fund, New York, NY   May 2019 – Present

Data Analyst Intern, Technical Division

- Fill funding gap from donors by generating mapping products and interactive dashboard on visualizing the challenges faced by UNPFA using Tableau and ArcGIS.
- Communicate complex analytical findings effectively through visualization of population demographics data and census questionnaires performance comparison using SAS, Excel and Tableau.
- Evaluate demographic data production capacity and quality for 240 countries through literature review and complex datasets manipulation.

Columbia University Mailman School of Public Health, New York, NY   August 2019 – Present

Graduate Teaching Assistant

- Support student learning in fundamental biostatistics and epidemiology concepts such as linear regression, logistic regression, measure of association, hypothesis testing, RCT and cohort designs, causal inference, confounding etc.
- Lead a weekly section comprised of 25 graduate students through problem sets, lab and office hours to train students to apply epidemiological and statistical methods to the breadth settings and situations in public health practice.
- Teach weekly STATA workshops to help students understand statistical concepts and apply them to real datasets.

State Key Laboratory of Biocontrol, Guangzhou, China   June 2017 – June 2018

Research Assistant

- Identified the phylogenetic position of specific bacterial strain by performing phylogenetic analysis and comparing sequencing result to available bacterial genome databases
- Conducted statistical analysis to identify taxonomic position of novel bacteria utilizing 16S rRNA sequencing, MEGA5, and DNA STAR

PUBLICATIONS

- **Ou-yang, T**., Xia, F., Qiu, L. *Acidicapsa dinghuensis* sp. Nov., a novel acidobacterium isolated from forest soil. *International Journal of Systematic and Evolutionary Microbiology*. (2018). 68. 10.1099/ijsem.0.002846.
- Xia, F., **Ou-yang, T**., Gao, Z., Qiu, L. *Edaphobacter flagellatus* sp. nov. and *Edaphobacter bradus* sp. nov., two acidobacteria isolated from forest soil. *International Journal of Systematic and Evolutionary Microbiology*. (2018). 68. 10.1099/ijsem.0.002871.

SKILLS & CERTIFICATIONS

- *Computer Skills:* R, SAS, STATA, MySQL, ArcGIS, QGIS, Tableau, TreeAge, and Microsoft Office Suite (Excel, PowerPoint, Access, Word)
- *Language Skills:* Quadrilingual: Fluent in English and Korean; Native in Chinese and Cantonese
- *Certifications:* SAS Certified Specialist: Base Programming using SAS 9.4, SAS Advanced Programming Credentials, HIPAA (patient privacy), CITI (human subjects research)