Yuehan Zhang

615 N Wolf Street • Baltimore, MD 21205 • 443-287-4876 • yzhan176@jhu.edu • www.yhzhang.me

PROFILE

Master of Science in Epidemiology with experience in analyzing a broad range of public health topics. Reliable data analyst skilled at statistical analysis and programming in STATA and SAS.

EDUCATION

Master of Science in Epidemiology   **May 2015**

Johns Hopkins Bloomberg School of Public Health (JHSPH), Baltimore, MD (Grade: 4.0/4.0)   Advisor: Dr. Elizabeth Golub

Concentration: General Epidemiology and Methodology

Certificate: Pharmacoepidemiology and Drug Safety

Bachelor of Science in Biotechnology   **July 2013**

Shanghai Jiao Tong University, Shanghai, China (Grade: 3.8/4.0)

HONORS AND AWARDS

The Delta Omega Public Health Honor Society, Alpha Chapter	**May 2015**
AAAS/Science Program for Excellence in Science, American Association for the Advancement of Science	**May 2015**
Dorothy and Arthur Samet Student Support Fund in Epidemiology, JHSPH	**May 2015**
Master's Tuition Scholarship, JHSPH	**Sept. 2014**

WORK EXPERIENCE

Research Data Analyst   **June 2015-Present**

Department of Epidemiology, JHSPH   Supervisor: Dr. Gypsyamber D'Souza

Lead data analyst for three observational studies. Responsible for data integrity, variable programming, database construction and management, development of analytic plans, data analysis, and manuscript drafting.

- Develop and modify statistical analysis plan (SAP) to meet the study design and objective in the manuscript and proposal
- Create and validate tables and figures in publication-quality form summarizing the results of statistical analyses
- Performed statistical analyses according to SAP:
  - Descriptive statistics
  - Comparison testing: Chi Squared test, Fisher Exact, Cohen's Kappa statistics, Spearman rank correlation
  - General linear models: logistic regression, analysis of variance (ANOVA)
  - Survival analysis: Kaplan-Meier (KM) method, log-rank test, proportional hazards model (Cox model)
  - Longitudinal data analysis: Generalized estimating equations (GEE) method, mixed model, spaghetti plot
- Perform data management-related programming including organizing complex multi-infection multi-visit data, data cleaning and merging, database and variable construction, developing and implementing quality control plans
- Prepare written interpretation of analyses and write statistical sections of study reports and publication
- Manage database and coordinate data logistics across four study sites with over 400 participants nationwide
- Program and design online surveys in Research Electronic Data Capture (REDCap) to collect data
- Assist in developing reports for Quality Management and Data and Safety Monitoring and informed consent form
- Collaborate with investigators and staff and provide consulting support from programming and statistical points of view

Research Assistant   **June 2014-May 2015**

Department of Epidemiology, JHSPH   Supervisor: Dr. Gypsyamber D'Souza

- Wrote STATA programs to manage database and assisted in quality control for multiple studies
- Implemented multiple statistical models to analyze data from observational studies
- Generated and maintained tracking logs for participant vital status and sample collection at each visit of a cohort study

- Designed table shells and created tables to demonstrate study results that are clear and easy to read
- Performed literature review and developed a research-in-progress presentation on disparities in HPV infection

Research Assistant   **July-Nov. 2014**

Women's Interagency HIV Study (WIHS) Data Management and Analysis Center (WDMAC)   Supervisor: Dr. Elizabeth Golub

- Proposed specific research aims, and hypotheses and wrote a concept sheet proposal
- Communicated with investigators and developed statistical analysis plan to address identified research aims
- Assessed exchangeability in a large multicenter cohort study by reviewing eligibility criteria over four enrollment waves
- Performed statistical analyses to estimated the HIV incidence rate, and to identify the longitudinal pattern of target variables

Teaching Assistant   **June-July 2014**

Principles of Epidemiology (340.601.11)   Instructor: Dr. Lechaim Naggan

Graduate Summer Institute of Epidemiology and Biostatistics, JHSPH

- Led discussions on selected public health topics (50 students) and held daily office hours to answer student questions
- Member of instructor and teaching assistant team meeting weekly to coordinate teaching

PUBLICATIONS

D'Souza G, Wentz A, Kluz N, **Zhang Y**, Sugar E, Youngfellow RM, Guo Y, Xiao W, Gillison ML (2016). Gender Differences in Risk Factors and Natural History of Oral Human Papillomavirus (HPV) Infection. *J Infect Dis*. doi: 10.1093/infdis/jiw063

Zhang Y, Waterboer T, Pawlita M, Sugar E, Minkoff H, Cranston RD, Wiley D, Burk R, Reddy S, Margolick J, Strickler H, Weber K, Gillison M, D'Souza G (2016). HPV16 E6 Seropositivity Elevated in Subjects with Oral HPV16 Infection. (Under Review)

Zhang Y, Wilson TE, Adedimeji A, Merenstein D, Milam J, Cohen J, Cohen M, Golub ET (2016). The Impact of Substance Use on Adherence to Antiretroviral Therapy among HIV-infected Women in the United States. (Under Review)

Zhang Y, Wentz A, Jacobson L, Weber K, Strickler H, Wiley D, Reddy S, Minkoff H, Burke R, Flowers L, Margolick J, Cranston R, Sugar E, Kluz N, Youngfellow R, Gillison M, D'Souza G (2016). Differences in Oral Human Papillomavirus Prevalence by Age and Gender. (In Preparation)

PRESENTATIONS

Zhang Y, Waterboer T, Pawlita M, Burk R, Wiley D, Minkoff H, Reddy S, Jacobson L, Margolick J, Cranston R, Strickler H, Sugar E, Weber K, Gillison M, D'Souza G: HPV16 E6 Seropositivity Elevated in Subjects with Oral HPV16 Infection. *Poster at the 15th International Conference on Malignancies in AIDS and Other Acquired Immunodeficiencies. Oct. 2015.*

Zhang Y, Wilson TE, Adedimeji A, Merenstein D, Milam J, Cohen J, Cohen M, Golub ET: The Impact of Illicit Drug Use on Antiretroviral Therapy (ART) Adherence among HIV-Infected Women in the United States. *Oral presentation at the 48th Annual Meeting of the Society for Epidemiologic Research. June 2015.*

CERTIFICATE

SAS Certified Base Programmer for SAS 9 (License BP056760v9)   **Feb. 2016-Present**

SELECTED COURSES

Epidemiology Methods, Statistical Methods, Analysis of Longitudinal Data, Multilevel Statistical Models, SAS Statistical Package, STATA Programming, Survival Analysis, Causal Inference in Medicine and Public Health, Public Health Surveillance

PROFESSIONAL DEVELOPMENT

Computer Skills: STATA, SAS, R, Origin, Microsoft Office Suite, Microsoft Office Access

Membership: Delta Omega Public Health Honor Society (2015-present), American Association for the Advancement of Science (2015-2017), Society for Epidemiologic Research (2015-2016), Chinese Public Health Forum (2014-present)

Languages: English and Mandarin