

Yuehan Zhang

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PROFILE

Master of Science in Epidemiology with experience in analyzing a broad range of public health topics. Reliable researcher skilled at programming and statistical analysis 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 epidemiologic studies. Responsible for data integrity, variable programming and database construction, development of analytic plans, data analysis, and manuscript drafting.

- Lead epidemiologic and statistical analyses, including survival analysis, longitudinal analysis, and multivariate analysis
- Provide data management support, develop and implement quality control plans
- Lead author for 3 papers, responsible for literature review and writing of manuscript for peer review
- Developed a STATA program to organize complex multi-infection multi-visit data
- Coordinate data logistics across four study sites with over 400 participants nationwide, and manage study database
- Assist in developing informed consent form and reports including NIDCR Medical Monitor Oversight Report and Quality Management Summary Report
- Program and design online surveys in Research Electronic Data Capture (REDCap) to collect data
- Collaborate with data managers, study coordinators and laboratory investigators and assist in STATA programming

Research Assistant

June 2014-May 2015

Department of Epidemiology, JHSPH

Supervisor: Dr. Gypsyamber D'Souza

- Conducted survival analysis to investigate the natural history of oral HPV infection among a cohort of young adults
- Performed cross-sectional analysis to assess patient experience and knowledge of oral HPV infection
- Generated and maintained tracking logs for participant follow-up status, vital status, sample collection at follow-up visits
- 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 Data Management and Analysis Center (WDMAC)

Supervisor: Dr. Elizabeth Golub

- Assessed exchangeability in a large multicenter cohort study by reviewing eligibility criteria over four enrollment waves
- Estimated HIV incidence rate over entire WIHS study period and summarized participants characteristics at enrollment
- Conducted exploratory longitudinal data analysis, identified and interpreted trajectories of risk behaviors between

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HIV-infected and uninfected participants over 20 years of follow-up

- Proposed specific research aims, hypotheses and data analysis plans for a written concept sheet proposal

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

RESEARCH PROJECT

Master's Thesis Project

The Impact of Substance Use on Adherence to Antiretroviral Therapy (ART) among HIV-Infected US Women

Women's Interagency HIV Study (WIHS)

Advisor: Dr. Elizabeth Golub

- Applied Poisson regression models with generalized estimating equations to 11-year follow-up data in the modern ART era
- Estimated the longitudinal effects of overall substance use and specifically marijuana use alone on ART adherence
- Explored potential interactive effect between substance use and single-tablet ART regimen on ART adherence
- Conducted literature review and wrote a manuscript submitted for publication

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. (Under Review)

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.*

SELECTED COURSES

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

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