# Yuanqi Mi

E6004, 615 N Wolfe Street, Baltimore, Maryland, 21231

Tel: (667)354-8758; E-mail: miyuanqi1123@gmail.com; ymi3@jhu.edu

## EDUCATIONAL BACKGROUND

**Johns Hopkins University**, Baltimore, USA                                                      2022-2024
- Master of Science (ScM) in Epidemiology (Track: Infectious Disease Epidemiology), GPA: 3.89
- Relevant courses: Epidemiology Method, Statistics in Public Health, Statistical Programming, STATA programing, Immunology, Pathogenesis

**Peking Union Medical College & Chinese Academy of Medical Sciences (PUMC),** Beijing, China        2018-2022
- Bachelor of Science in Nursing Science, GPA: 3.55
- Relevant courses: Community Nursing Care, Data Management (Biostatistics), Health Service System, Pharmacology, Social Medicine, Nutrition, Epidemiology

## PEER-REVIEWED PUBLICATIONS: https://www.ncbi.nlm.nih.gov/myncbi/yuanqi.mi.1/bibliography/public/

- **Mi Y**, Wiginton JM, Murray SM, Lucas I, Valentine-Graves M, Dean LT, Willie TC, Willis K, Sanchez T, Baral S, Rao A. Association between homelessness and PrEP uptake among men who have sex with men: Results from the American Men's Internet Survey, 2017-2021. Soc Sci Med. 2025 Feb;366:117674. doi: 10.1016/j.socscimed.2025.117674. Epub 2025 Jan 4. PMID: 39817941; PMCID: PMC11892117.
- **Mi Y**, Wang X, Zeng Y, Guo Y, Wang P, Cheng F, Zhou M. Incidence of antiretroviral therapy regimen modification and associated factors among People Living with HIV in Beijing, China. PLOS Glob Public Health. 2025 Nov 3;5(11):e0005319. doi: 10.1371/journal.pgph.0005319. PMID: 41183094; PMCID: PMC12582487.
- **Mi Y**, Zhou M, Zeng Y, Wang P, Gao L, Cheng F. Factors Associated With Delayed and Late Initiation of Antiretroviral Therapy Among Patients With HIV in Beijing, China, 2010-2020. Int J Public Health. 2023 Jun 21;68:1605824. doi: 10.3389/ijph.2023.1605824. PMID: 37416802; PMCID: PMC10321558.
- **Mi Y**, Zeng Y, Wang P, Zhou M, Cheng F. Cost-Effectiveness of Pre-exposure Prophylaxis Among Men Who Have Sex with Men in China: A Systematic Review. Front Public Health. 2022 Jun 21;10:809268. doi: 10.3389/fpubh.2022.809268. PMID: 35801237; PMCID: PMC9253462.
- Wang D, Zhou M, Wang P, Zhang J, **Mi Y**, Cheng F, Liu J. Treatment-naïve people living with HIV aged 50 years or older in Beijing, China, 2010–2020: Joinpoint regression model analysis of surveillance data. Journal of the International AIDS Society. 2023;26(12):e26193. doi:10.1002/jia2.26193. PMCID: PMC10698805. PMID: 38054578.
- Zhang J, Zhou M, Wang P, Wang D, **Mi Y**, Liu J, Cheng F. Temporal trends of clinical characteristics and treatments in people living with HIV at the initiation of antiretroviral therapy — Beijing Municipality, China, 2010–2020. China CDC Weekly. 2023;5(6):131-136. doi:10.46234/ccdcw2023.024. PMCID: PMC10061757. PMID: 37008827.
- Wang M, Cao X, Zhou M, **Mi Y**, Yu P, Guo Y. Mixed sex disparities in elderly atopic dermatitis prevalence among US oldest-old adults: A longitudinal study. Clinical & Experimental Allergy. 2025;55(9):870-872. doi:10.1111/cea.70060. PMID: 40254551.
- Cao X, Zhao G, Peng H, **Mi Y**, Zhou M, Guo Y. Association between allergic diseases and hypertension: Co-occurrence pattern analysis. Allergy & Asthma Proceedings. 2025;46(2):e61-e69. doi:10.2500/aap.2025.46.240110. PMID: 40011983.
- Cao X, Peng H, Hu Z, Xu C, Ning M, Zhou M, **Mi Y**, Yu P, Fazekas-Pongor V, Major D, Ungvari Z, Fekete M, Lehoczki A, Guo Y. Exploring the global impact of obesity and diet on dementia burden: The role of national policies and sex differences. Geroscience. 2025;47(1):1345-1360. doi:10.1007/s11357-024-01457-w. PMCID: PMC11872863. PMID: 39612068.
- Cao X, Wang M, Zhou M, **Mi Y**, Guo Q, Fan Y, Guo Y. Global, regional and national burden of paediatric atopic dermatitis: A trend and geographic inequalities analysis. Clinical & Experimental Allergy. 2024;54(10):747-759. doi:10.1111/cea.14558. PMID: 39179382.
- Cao X, Wang M, Zhou M, **Mi Y**, Fazekas-Pongor V, Major D, Lehoczki A, Guo Y. Trends in prevalence, mortality, and risk factors of dementia among the oldest-old adults in the United States: The role of the obesity epidemic. Geroscience. 2024;46(5):4761-4778. doi:10.1007/s11357-024-01180-6. PMCID: PMC11336039. PMID: 38696055.
- **Mi Y**, Xiao X, Reform and Problem Analysis of Russian Public Medical System, Chinese Social Science Today, 2020;6(7):1. (In Chinese, CN: 11-0274)

- **Mi Y**, International experience in reducing consumption of sugar-sweetened beverage and its enlightenment to China, China Food Safety Magazine, 2020(36):51-54. (In Chinese, ISSN: 1674-0270)
- Committee on Chapter 2: Report on the current situation and prevention measures of noninfectious chronic disease. The Establishment of a New Public Health and Preventive Medicine System. Science Press, 2020. Member of Committee. (In Chinese)

## MANUSCRIPTS UNDER REVIEW

- **Mi Y,** Baral S, Voet K, Rucinski K, Wiginton JM, Lyons C, Willis K, Willie T, Sanchez T, Rao A, Homelessness and HIV Treatment Among Men Who Have Sex With Men Across U.S. Funding Contexts (manuscript under review at *JAMA Network Open*)
- **Mi Y.** (2024). Assessing the relationship between HIV-related stigma and antiretroviral treatment interruption among older and younger adults in Kenya (master thesis). Johns Hopkins University: https://jscholarship.library.jhu.edu/items/24998ff1-0db5-4706-a443-3f9c1780390c/ (manuscript under review at *AIDS & Behavior*)
- Yang C L, **Mi Y**, Zeng Y H, Cheng F, Zeng H T, Zhou M G, Cost-effectiveness analysis of ainuovirine versus efavirenz in HIV population initiating first-line combination antiretroviral therapy (co-first author, manuscript under review at *BMC Health Service Research*)

## WORKING PAPERS

- **Mi Y** et al, Identifying sexual risk profiles for clients and non-paying partners of female sex workers to inform HIV prevention in Port Elizabeth, South Africa: a latent class analysis (manuscript finalized, waiting for external partners' approval, prepared to be submitted to *BMC infectious diseases*)
- Rucinski K, **Mi Y** et al, Defining strata of women at risk of HIV in sub-Saharan Africa: A pooled latent class analysis (co-first author, manuscript finalized, waiting for external partners' approval, prepared to be submitted to *Journal of the International AIDS Society*)

## CONFERENCE ABSTRACTS

- **Mi Y,** Arimi P, Yang Z, Muriuki FK, Kamau A, Mbilu B, Kamuyu E, Kimani J, Bhattacharjee P, Voet AK, Rucinski K, Baral S, Rao A, Association Between Silent Transfers and Virologic Outcomes Among Female Sex Workers on ART in Kenya (accepted as poster presentation in Conference on Retroviruses and Opportunistic Infections 2026)
- **Mi Y,** Rao A, Reynolds E, Lucas I, Valentine-Graves M, Winter S, Caldwell J, Wiginton JM, Atkins K, Lo Hog Tian JM, Alicea-Jorgensen K, Murray S, Sanchez T, Baral S, Stigma and PrEP Use Among Transgender Women Under Differing State LGBTQ Healthcare Policies (accepted as poster presentation in Conference on Retroviruses and Opportunistic Infections 2026)
- **Mi Y,** Rosen J, Rao A, Mcingana M, Atkins K, Hausler H, Rucinski K, Mishra S, Boily MC, Vickerman P, Baral S , Schwartz S, Identifying sexual risk profiles for clients and non-paying partners of female sex workers to inform HIV prevention in Port Elizabeth, South Africa: a latent class analysis (accepted as poster presentation at AIDS Conference 2024)
- Yang C, **Mi Y**, Zeng Y, Cheng F, Zheng Y, Zhang C, Qin H, Zeng H, Zhou M, Cost-effectiveness analysis of ainuovirine versus efavirenz in HIV population initiating first-line combination antiretroviral therapy (accepted as poster presentation in HIV Glasgow, 2024: https://pmc.ncbi.nlm.nih.gov/articles/PMC12044665/)
- Rao A, **Mi Y**, Rucinski K, Wiginton JM, Lyons C, Willis K, Willie T, Sanchez T, Baral S, Homelessness and antiretroviral use among MSM in the context of varying levels of federal funding. (accepted as oral presentation in Conference on Retroviruses and Opportunistic Infections 2024)

## PROFESSIONAL EXPERIENCE

**Research Data Analyst,** *July.2024-Present* |**Principal Investigator: Dr. Stefan Baral**
Leveraging Big Data Science to Focus the HIV Response in Countries with Generalized HIV Epidemics | *Johns Hopkins School of Public Health, Center for Public Health and Human Rights,* Baltimore, MD

- Simultaneously managing 20+ integrated biological and behavioral datasets from 5 countries in Sub-Sahara Africa, quality control and assurance to datasets ensuring their alignment with study protocol and codebooks.
- Developing suitable weighting approach and innovative tool for different survey studies including respondent-driven sampling, time-location sampling, and post-stratification weighting in R studio, Python, and STATA (https://github.com/Yuanqi-Mi/REDCap-RDS-Tree-Automata-SSPSE-/).

- Development of weighted descriptive statistics report to understand the demographics and other behavioral characteristics of key population of elevated HIV burden for The Global Fund to Fight AIDS, Tuberculosis and Malaria, UNAIDS, and USAID/PEPFAR.
- Regular review and adjustment of behavioral questionnaires across countries for study design improvement.
- Leading population size estimation of key populations (female sex workers, men who have sex with men and people who inject drugs) in Burundi, Liberia, Senegal, and Central African Republic.
- Daily coordination of study logistics, analysis report and correspondence with internal and external partners to ensure alignment with specific aims/study objectives, developing meeting agendas and presentations.
- Directly managing 10 research assistants and master students, regular supervision on research design and facilitating data analysis coding support for 3 master's thesis/capstones in R and STATA.
- Leading studies regarding social and structural determinant of health and association with healthcare service access using modern epidemiologic methods and quasi-experimental causal methods.
- Designing longitudinal study on trajectories of PrEP persistence among men who have sex with men in South Africa.
- Weekly coordination with external partners and providing data analysis coding support and presentation on group-based trajectory model analysis.
- Development of innovative longitudinal calculation approach of PrEP coverage for men who have sex with men.

**Data analyst,** *July.2025-Present* |**Supervisor: Alex Garner and Dr. Stefan Baral**
Power in Q Data | *MPact Global Action for Gay Men's Health and Rights,* Oakland, CA
- Creating a robust method for gathering data on MSM, Gay and Trans populations using social media and dating apps.
- Producing reliable population size estimates for MSM, Gay and Trans communities in the target countries.
- Developing and distribute a detailed report for funders and stakeholders and producing an article to generate new methods for estimating LGBT populations and promote the findings (abstract produced for conference).

**Graduate Research Assistant,** *October.2022-May.2024* |**Principal Investigator: Dr. Sheree Schwartz**
Optimizing pre-exposure prophylaxis implementation and effectiveness among women at high risk for HIV acquisition in South Africa | *Johns Hopkins School of Public Health, Department of Epidemiology,* Baltimore, MD
- Data management and cleaning of 3 datasets of male clients and non-paying partners of female sex workers in South Africa, Cameroon and Senegal
- Leading observational study using latent class analysis on sexual vulnerability profiles of clients of female sex workers in South Africa, evaluating association between class membership and HIV seropositivity, service uptake, and HIV sero-status unawareness using R.
- Conducting a systematic review of implementation regarding pre-exposure prophylaxis promotion among cisgender women using Covidence, development of inclusion/exclusion criteria, and primary data extraction

**Graduate Research Assistant**; *January.2023-May.2024* |**Principal Investigator: Dr. Stefan Baral**
Characterizing intersecting sexual, gender, and race-based stigmas affecting communities of US transgender women and cisgender men who are sexually active with men | *Johns Hopkins Bloomberg School of Public Health, Department of Epidemiology,* Baltimore, MD
- Management and cleaning of datasets from the American Men's Internet Survey of 40,000+ participants
- Leading observational study on demographic the relationship between housing insecurity and PrEP and antiretroviral therapy uptake using STATA and R.
- Assessing the modifying effect of federal funding, injection drug use on participant's service uptake.
- Designing post-stratification weighting adjustment on race and region using R.
- Conducting a scoping review focused on mobile interventions for mental health disparities among sexual and gender minority populations using Covidence.

**Research Assistant**; *Apr.2021-June.2023* | **Principal Investigator: Dr. Feng Cheng**
***Evaluation system of 90-90-90 prevention and treatment strategies for HIV/AIDS: an empirical study; Rural emergency medical system construction program** |Tsinghua University, Vanke School of Public Health,* Beijing, China

- Leading a systematic review evaluating the cost-effectiveness of pre-exposure prophylaxis among men who have sex with men in China.
- Development of health economic assessment tool for pre-exposure prophylaxis regimen, organized by modelling approach, geographic area, population, drug cost, indirect medical cost, cost per quality-adjusted life year gained/disability-adjusted life year averted.
- Data management and cleaning on the panel data of 23,919 HIV patients enrolled in Beijing Ditan Hospital from 2010-2020 using R and SPSS.
- Leading cross-sectional and longitudinal analyses in the context of competing risk for antiretroviral therapy regimen modification and delayed ART initiation. Conducted related manuscripts as first author.
- Designing qualitative study on rural emergency medical system evaluation.
- Conducting field research and interviewed 10 staff from 5 hospitals and community services in rural area of Sichuan Province in China regarding the emergency medical system resource allocation.
- Development of transcription of interviews and qualitative data analysis report.

**Research Assistant***; Feb.2020-Nov.2020* | **Principal Investigator: Dr. Li Diao**
**Research on the opportunities, risks and challenges faced by the Belt and Road co-building in the next 3-5 years (the assessment of the public health security status of countries along the Belt and Road)** |*Wuhan University School of Economics,* Wuhan, China
- Conducting literature review and translation of articles and policy on the public health security status.
- Conducted a comprehensive review of Russia's health policy to evaluated Russia's ability to respond to the pandemic.

**Research Assistant***; Apr.2019-Sep.2020* | **Principal Investigator: Dr. Juan Zhang,**
**Landscape mapping on healthy food policies in China &** *Good Prevention of Vaccination Practice (GPP* | *PUMC, School of Population Medicine and Public Health,* Beijing, China
- Designing project protocol and completed a comprehensive review of current food policies and standards in China;
- Data extraction on 100+ hours of food advertisement in children's channel in China
- Development of Strength, Weakness, Opportunity, Threat analysis on developing and implementing food policies focusing on Front-of-pack labeling.
- Conducting field investigation of vaccination agencies in Liaoning Province.
- Data extraction from the survey questionnaires and development of descriptive analysis.

**Research Assistant***; Mar.2020-Aug.2021* | **Principal Investigator: Dr. Min Zhang,**
**Work Improvement in Health Services in the context of covid-19 in China (HealthWISE)**
| *PUMC, School of Population Medicine and Public Health,* Beijing, China
- Development of a comprehensive review of current status, legislature and actions about occupational health improvement and workplace violence;
- Member of the writing committee: *violence at work* (Chinese version);
- Interviewing 3 health professionals from The First Affiliated Hospital of Zhengzhou University and development of qualitative analysis reports.

## INTERNSHIP
**Data Analysis Intern,** *Oct.2023-May.2024* |**Advisor: Nicholas Richard**
Baltimore Crisis Response Inc. (BCRI)*,* Baltimore, MD
- Weekly communication with the leadership and community partners to identify the required data points evaluating the effectiveness of service delivered for individuals who participate in substance misuse recovery services (detox).
- Analyzing the required data points for services/hours delivered by employees in the Peer Recovery Service under the Mayor's Office of Neighborhood Safety and Engagement Grant. Development of data interpretation section in the grant report.
- Designing improved structured assessment tool to assess the mental health crisis of participants in the substance misuse recovery services.
- Working with the leadership team to create sets of infographics for communication with partners.

- Leading 2 reports regarding data points of social determinants of health: substance use and risky behaviors in relation to STI diagnosis; patterns of substance use in relation to client attrition rates in treatment units.

## CLINICAL EXPERIENCE

**Full-time Practical Nurse | Peking Union Medical College Hospital (PUMCH),** Beijing, China     Aug.2021-May.2022
- Clinical nursing internship in the ICU, operating room, delivery room, emergency room, and inpatient wards.
- Community nursing care and local families' health investigation.

**Volunteer, Daycare Services, Alenah's home**, Beijing, China                                    Fall 2018
**Volunteer, Med Services, Beijing Red Cross Blood Center**, Beijing, China          Fall 2018-Summer 2019
**Volunteer, Med Services, Peking Union Medical College Hospital**, Beijing, China      Fall 2018-Spring 2019
**Volunteer, Med Services, Song Tang Hospice**, Beijing, China                                  Fall 2018

## EDITORIAL AND PEER REVIEW ACTIVITIES
- Reviewer, BMC Public Health, 2025-
- Reviewer, BMC Infectious Diseases, 2025-
- Reviewer, Scientific Reports, 2025-
- Reviewer, AIDS Care, 2025-
- Reviewer, Frontiers in Public Health, 2025-

## HONORS AND AWARDS
- Scholarship recipient, 27th International AIDS Conference, International AIDS Society, 2024

## PROFESSIONAL SKILLS
- Microsoft Office Applications: Word, PowerPoint, Excel, Teams, OneNote.
- Research Management Software: REDCap, Covidence, EndNote.
- Statistical Analysis Software:

  **R (proficient), STATA (proficient), Python (proficient)**, MPLUS, SAS, ArcGIS, SPSS, Tableau.
- Language skills: Chinese (native), English (advanced), French (beginner)