

Yehua Wang

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Education Background

MSPH in Global Disease Epidemiology and Control, the Johns Hopkins Bloomberg School of Public health	2016.9-2018.6
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- Certificate in Clinical Trials; Certificate in Vaccine Science and Policy
- Thesis: Characterizing the Unmet HIV Prevention Needs and HIV Vulnerabilities of Adolescent Girls and Young Women
- Certificate project: trial protocol design “C reactive protein in guiding COPD antibiotic treatment schedule”

Bachelor of Science in Life Science, Fudan University	2012.9-2016.7
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- Honors: Fudan Freshman Scholarship (top 1%); two years of University Second Class Scholarship (top 15%); two years of Life Science Scholarship (top 30%); Fudan Outstanding Student in Year 2015 (2/120);

- Thesis: A statistical method to assess the prognosis value of serum IL-8 and Neutrophil level in clinical tumor treatment

Semester Exchange Program, National University of Singapore	2015.1-2015.5
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- Project: Cellular pathway of influenza virus infection, MKP2 regulation role in immune response against influenza virus

Work and research experience

Analyst, Real-World Solutions/HEOR, IQVIA; Shanghai, China	2019.4-current
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- Conducted a methodology review on survival curve extrapolation of CAR-T products used in cost-effectiveness analysis summarized the findings into an abstract and received 2nd-price poster at the China HTA forum.
- Extracted all oncology drug HTA submission records from 8 HTA countries in the past 3 years focusing on RWE submission, evidence type and acceptance rate by HTA agencies; detected an increase in RWE submission and differentiated acceptance rate in evidence types (higher in safety and disease burden but lower in effectiveness), showing an increase in RWE use in HTA
- Composed policy environment scan of 8 countries' HTA agencies on the special considerations in value assessment of orphan and tumor drugs; summarized the trend of appraisal consideration and supported quantitatively and qualitatively with specific drug reimbursement cases from the published HTA reports in different countries
- Developed comparative effectiveness research protocol using EMR and chart review to evaluate real-world effectiveness, safety and treatment cost of *the first-line treatment options* among advanced renal cell cancer patients in China.
- Conducted systematic literature review to map out current real-world data sources for Chinese diabetes treatment studies
- Conducted systematic literature review to understand current epidemiology and treatments of multiple myeloma in China
- Estimated the number of China cancer patients receiving highly emetogenic chemotherapy through epidemiological modeling; wrote the whole technical report of a drug's budget impact model to forecast its annual cost if covered by the national healthcare; the model served as the foundation for the 2019's National Reimbursement Drug List entry negotiation.
- Supported a drug's gastric cancer indication listing into the National Reimbursement List based on the current treatment unmet needs and synthesize clinical & economic evidence into a value dossier by literature review and client engagement
- Conducted a landscape review on RWE trends in practice and regulations in China to inform strategy planning

Research assistant, University of North Carolina-Project China; Guangzhou, China	2018.7-2019.4
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- Conducted secondary data analysis on correlates of HIV seroconversion among men who have sex with men (MSM) using a step-wedge trial database; identified MSM community engagement, bisexual behavior and multiple female partners as risk factors for HIV infection by cox regression using longitudinal variables; utilized inverse probability score to adjust for potential selection bias to validate the incidence rate; published the findings as an abstract and accepted by IUSTI, 2019.
- Conducted secondary data analysis on correlations of early MSM sex debut with risky sex behaviors such as condomless sex and lower HIV testing rate using logistic regression; published the findings as an abstract and accepted by IUSTI, 2019.
- Coordinated RCT implementation, including 300 participants interview, sample collection & sending and data management
- Designed study protocols, electronic questionnaires, data collection forms, and IRB materials and laid the logistical foundation for innovative (such as intersexual partner testing kit distribution) MSM HIV testing promotion through the Internet.
- Conducted systematic review by constructing a search term list, sifted target articles out of 180,000 manuscripts and extracted data from over 90 manuscripts for Meta-analysis about operational intervention's impact on TB treatments

Senior research assistant, USAID and Ethiopia Department of Health, Addis Ababa, Ethiopia	2017.5-2018.6
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- As a senior research assistant, assigned to Ethiopia and cooperated with the health ministry to investigate HIV prevalence and characterized HIV vulnerability among adolescent girls and young women. It's the first study in Ethiopia on this population.

- Assembled a six-member team, organized training of 20 people within 1 month; support study implementation on-site: led the team interviewed 600 people and identified 2,500 venues and verified 800 venues to collect data and GPS information
- Monitored the working progress and quality of the 6-member fieldwork team: check an average of 30 copies data forms every day and send out feedbacks within 24 hours, which provided solid supports for the whole study implementation.
- Fully responsible for the communication and coordination work between Ethiopia and US-side; summarized the 6-month field experience into 3 executory reports and venue ecology summary; made a 20-page slides presentation to the USAID; the information collected directly influenced the site selection and the subsequent sampling strategies.
- Conducted time-location-sampling based on verified venue information and made visiting calendar for the whole study
- Led the data analysis, analyzed 800 participants and 650 venues, using model and spatial analysis by Stata and ArcGIS to describe the target population's prevalence of food insecurity, sexual violence, and transactional sex; mapped out venue distribution; Published findings as the first author, an innovative approach to target hard-to-reach vulnerable population

Data analyst, AdvaHealth; Beijing, China

2017.12-2018.1

- Identified and extracted 3,000 records with HPV and Thinprep Cytology Test (TCT) result from 30,000 electronic health records
- Described HPV utilization rate, client's sociodemographic characters and No. of positive cases with virus subtype distribution
- Conducted a retrospective cohort analysis to explore the association between high-risk HPV and TCT abnormality; identified a correlation between persistent infection and High-grade Squamous Intraepithelial Lesion after propensity score adjustment
- Composed a 4000-word report and 10-page slides as presentation materials to present findings and HPV knowledge with the CEO, Obstetrics and Oncology physicians; the report was published in the center's magazine to encourage more HPV screening

Research assistant, Johns Hopkins University; Baltimore, United States

2017.4-2018.7

- Screened 35,000 published studies for Chinese-sponsored RCTs from 5 Chinese and English bibliographic system
- Detected a higher likelihood of publishing positive RCT results on English journals than on Chinese by using log-binomial model after adjusting for covariates such as study design and sample size, indicating the existence of language bias of Chinese sponsored RCT and the necessity to include articles published in Chinese journals when doing systematic review.

Part-time analyst, China Europe International Business School (CEIBS); Shanghai, China

2018.9-2019.2

- Wrote *Icotinib*, a TKI, its regulatory approval and market entry experience to reveal China's determination of spurring pharmaceutical innovation and the evidence-based assessment. The case was accepted into the CEBIS case database.

Publications

- Wang, Y., Comins, C. A., Mulu, A., Abebe, S. A., Belete, K., Balcha, T. T., ... & Schwartz, S. R. (2019). Leveraging Geospatial Approaches to Characterize the HIV Prevention and Treatment Needs of Out-of-School Adolescent Girls and Young Women in Ethiopia. AIDS and behavior, 1-11.**
- Qu, S., Wang, Y., Luo, W., Wang, H., Xie, Y., Long-term survival extrapolation in economic modeling for CAR-T therapy: A methodology review based on HTA appraisals (China HTA Forum 2019)**
- Jia, Y., Huang, D., Wen, J., **Wang, Y.**, Rosman, L., Chen, Q., ... & Celentano, D. D. (2020). Assessment of Language and Indexing Biases Among Chinese-Sponsored Randomized Clinical Trials. JAMA Network Open, 3(5), e205894-e205894.
- Shen, K., Yang, N. S., Huang, W., Fitzpatrick, T. S., Tang, W., Zhao, Y., **Wang, Y.**, ... & Tucker, J. D. A crowdsourced intervention to decrease hepatitis B stigma in men who have sex with men in China: a cohort study. Journal of Viral Hepatitis (Under press)
- Zhang, T. P., Yang, F., Tang, W., Alexander, M., Forastiere, L., Kumar, N., ... & **Wang, Y.** (2019). Pay-it-forward gonorrhea and chlamydia testing among men who have sex with men in China: a study protocol for a three-arm cluster randomized controlled trial. *Infectious diseases of poverty*, 8(1), 1-11.
- Huang, W., **Wang, Y.**, Lu, H., Wu, D., Pan, S. W., Tucker, J. D., & Tang, W. (2020, May). High HIV Incidence Among Men Who Have Sex With Men in 8 Chinese Cities: Results From a Trial. In Open Forum Infectious Diseases (Vol. 7, No. 5, p. ofaa147). US: Oxford University Press.
- Tang, W., **Wang, Y.**, Huang, W., Wu, D., Yang, F., Xu, Y., ... & Ma, W. (2020). Adolescent and non-consensual anal sexual debut among Chinese men who have sex with men: a cross-sectional study. BMC Infectious Diseases, 20(1), 1-9.
- Wu, D., Zhou, Y., Yang, N., Huang, S., He, X., Tucker, J., ... & Liu, X. (2019). Social Media-Based Secondary Distribution of Hiv/Syphilis Self-Testing Among Chinese Men Who Have Sex with Men.
- Huang, W., **Wang, Y.**, Lu, H., Tucker, J., & Tang, W. (2019). P538 High HIV incidence among men who have sex with men in eight Chinese cities: results from a cohort study. (IUSTI 2019)
- Tang, W., **Wang, Y.**, Ong, J., Wu, D., Smith, M. K., Fu, H., ... & Tucker, J. (2019). P529 Early sexual debut and non-consensual sex among Chinese men who have sex with men: a multi-city cross-sectional study. (IUSTI 2019)

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- Zhang, T., Yang, F., Tang, W., Huang, W., Wang, Y.,... & Yang, L. (2019). P018 Pay-it-forward gonorrhea and chlamydia testing among Chinese men who have sex with men: a cluster randomized controlled trial (IUSTI 2019)
 - Shen, K., Yang, N., Fitzpatrick, T., Huang, W., Tang, W., Zhao, Y., Wang, Y., Li, L., & Tucker, J. (2019). #96 Hepatitis B stigma among MSM in China: a crowdsourced intervention (APACC 2019)
 - Cai Jiangnan, Qian Wenyin, Wang Yehua, Zhang Li (2019) Conmana (*Icotinib*): the Odyssey of a New Pharmaceutical in China. CEBIS business case, case Number: STR-19-593
 - Chen, Z., Wang, Y., Liu, J., Xie, Y., (2019) **Using Real-World Evidence in Health Technology Assessment For Cancer Treatment (HTAi 2020)**
 - Yang, F., Zhang, T. P., Tang, W., Ong, J. J., Alexander, M., Forastiere, L., ... & Mi, G. (2020). Pay-it-forward gonorrhoea and chlamydia testing among men who have sex with men in China: a randomised controlled trial. *The Lancet Infectious Diseases*. Under-review
 - Jia, Y., Huang, D., Wen, J., Qureshi, Riaz., Wang, Y., Rosman L., Chen Q.,... Celentano, D. (2019) **Duplicate Patterns, Bias, and Inconsistencies among Chinese-Sponsored Randomized Controlled Trials (Annals of Internal Medicine)**
 - Wu, D., Zhou, Y., Yang, N., Huang, S., He, X., Tucker, J., Li, X., Smith, K., Ritchwood, T., Jiang, X., Liu, X., Wang, Y., Huang, W., Ong, J., Fu, H., Bao, H., Pan, S., Dai, W., Tang, W. (2019) (the Lancet Infectious Disease)

Personal skills and certificate

- Japanese Language Proficiency Test (N2); Hammond Organ Play Level 8 Certificate;
- Skill: Stata, SAS, SPSS, ArcGIS, Redcap, EndNote, Access, Outlook, Microsoft Office