Zeping Yang

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EDUCATIONAL BACKGROUND

Peking University Health Science Center (PUHSC), Beijing, China   Sep.2018-Jun.2023
➢ Bachelor of Medicine in Preventive Medicine
➢ Core Coursework: Epidemiology, Environmental Health, Maternal and Child Health, Child and Adolescent Health, Social Medicine, Public Health Leadership, Public Health Communication

Department of Epidemiology and Biostatistics, PUHSC, Beijing, China   Sep.2023-Present
➢ Master of Science in Epidemiology and Health Statistics
➢ Core Coursework: Reproductive and Perinatal Epidemiology, Spatial Epidemiology, Genetic Epidemiology, Application of R Packages in Clinical Epidemiology, Medical Research with Public Data, Management and Analysis of Medical Big Data

PUBLICATIONS

First Author Papers

1. **Yang, Z.**, Huang, N., Zhuang, Z., Jin, M., Zhang, Z., Song, Y., Cui, H., Zhang, S., Huang, T., Liu, X., & Li, N *. Earlier age at menopause, plasma metabolome, and risk of premature mortality. Metabolites. **2024**, 14, 571. doi:10.3390/metabo14110571 (**IF = 3.4**)
2. Cui, H. #, **Yang, Z.** #, Zhang, Y., Lü, J., Hao, Y., & Yu, C *. Age-period-cohort model analysis on trends of morbidity and mortality of esophageal cancer in China from 1990 to 2019. Chinese Journal of Prevention and Control of Chronic Diseases. **2023**, 31(4), 241-245. doi:10.16386/j.cjpccd.issn.1004-6194.2023.04.001 (in Chinese).
3. **Yang, Z.**, Li N., et al. Accelerated biological aging, plasma metabolome, and late-life risk of CKM syndrome: A prospective cohort study in the UK Biobank. **2024** (In preparation)

Co-authored papers

1. Liu, X., Liu, X., Huang, N., **Yang, Z.**, Zhang, Z., Zhuang, Z., Jin, M., Li, N. *, & Huang, T. Women's reproductive risk and genetic predisposition in type 2 diabetes: A prospective cohort study. Diabetes research and clinical practice. **2024**, 208, 111121. doi:10.1016/j.diabres.2024.111121 (**IF = 6.1**)
2. Liu, X., Jin, M., **Yang, Z.**, Zhang, Z., Huang, N., Huang, T., & Li, N *. Association of early-life factors with biological age acceleration and the mediating effect of social environment risks in middle-aged and elder adults. Age and Ageing. **2024** (**IF = 6.0,** Accepted).
3. Liu, X., Liu, X., **Yang, Z.**, Li, Z., Zhang, L., Zhang, Y., Liu, J., Ye, R., & Li, N *. The Association of Infant Birth Sizes and Anemia under Five Years Old: A Population-Based Prospective Cohort Study in China. Nutrients. **2024**, 16(12), 1796. doi:10.3390/nu16121796 (**IF = 4.8**)
4. Cui, H., Shen, S., Chen, L., Fan, Z., Wen, Q., Xing, Y., Wang, Z., Zhang, J., Chen, J., La, B., Fang, Y., **Yang, Z.**, Yang, S., Yan, X., Pei, S., Li, T., Cui, X., Jia, Z. *, & Cao, W. Global epidemiology of severe fever with thrombocytopenia syndrome virus in human and animals: a systematic review and meta-analysis. The Lancet regional health. Western Pacific. **2024**, 48, 101133. doi:10.1016/j.lanwpc.2024.101133 (**IF = 7.6**)
5. Zhang, S., Lodder, P., Yang, F., Huang, N., **Yang, Z.**, Feng, X., & Guo, J *. Social determinants of health and depressive symptoms in 142,600 older adults: A multi-cohort study. BMJ Global Health. **2024** (**IF = 7.1**, Accepted).
6. Zhang, Z., Liu, X., Huang, N., Jin, M., Zhuang, Z., **Yang, Z.**, Liu, X., Huang, T., & Li, N *. Joint association and interaction of birth weight and lifestyle with hypertension: A cohort study in UK Biobank. Journal of clinical hypertension (Greenwich, Conn.). **2024**, 26(5), 483-490. doi:10.1111/jch.14792 (**IF = 2.7**)
7. Jin, M., **Yang, Z.**, Zhang, Z., Luo, Z., Huang, N., Huang, T., Liu, X., & Li, N *. Associations of premature menopause, biological age, and polysocial risk score with incident cardiovascular-kidney-metabolic syndrome: A prospective cohort study. Atherosclerosis. **2024** (Submitted).
8. Liu, X., **Yang, Z.**, Zhang, Z., Huang, N., Zhuang, Z., Liu, X., Huang, T., & Li, N *. Causality of obesity on hypertensive disorders of pregnancy: A two-sample Mendelian randomization study. Obesity. **2024** (Submitted).

[# equal contribution; * corresponding author]

RESEARCH EXPERIENCE

Data Analysis of Pregnancy Nutrition Intervention Project (PNIP) in Hebei, China   Jul.2024-Present
Research Assistant; Advisor: Professor Rongwei Ye, Institute of Reproductive and Child Health, PUHSC
➢ Analyzed data from the Pregnancy Nutrition Intervention Project (N = 18,775), a randomized controlled trial from 2006-2009 which ran in five counties in Hebei and was conducted by the Institute of Reproductive and Child Health, Peking University, in collaboration with the U.S. Centers for Disease Control and Prevention (CDC).
➢ Investigated the association between particle matter (PM) and normalized difference vegetation index (NDVI) during pregnancy and newborn birth weight and size.
➢ Honed skills in data management, statistical analysis (R, Stata, ArcGIS, Python, SPSS), and teamwork.

UK Biobank Public Database Data Mining (Beijing Natural Science Foundation)   Aug.2023-Oct.2024
Group Leader; Advisor: Professor Nan Li, Institute of Reproductive and Child Health, PUHSC
➢ Led the entirety of the research process using the UK Biobank (N = 502,000), including conducting literature reviews, performing data analysis, drafting the manuscript, and responding to editorial and peer review comments for revisions.
➢ Applied machine learning methods to analyze 167 metabolites in plasma, identifying a distinct metabolomic signature related to age at menopause which mediates the association between earlier age at menopause and premature mortality. Wrote a paper as first-author entitled *Earlier age at menopause, plasma metabolome, and risk of premature mortality*, which has been published at *Metabolites*.

Web Data Mining for Analysis of Third-Party Medical Testing Institutions in China Jun.2022-Apr.2023
Group Leader; Advisor: Professor Wen Feng, Department of Health Policy and Management, PUHSC
➢ Led a group in data collection and analysis for a study on the current status and personnel needs of third-party medical testing institutions in China, culminating in a comprehensive final report.
➢ Developed skills in team management, web scraping with Python, statistical analysis and visualization using R, and research report writing.

Global Burden of Disease (GBD) Data Mining for Esophageal Cancer Trends in China Oct.2021-May.2022
Group Leader; Advisor: Professor Canqing Yu, Department of Epidemiology & Biostatistics, PUHSC
➢ Leveraging esophageal cancer data from the GBD database, conducted data analysis using an age-period-cohort approach, wrote and published the research findings as an article.
➢ Gained skills in teamwork, mining public databases, data analysis using R software, applying age-period-cohort models, and writing academic publications.

Social Medicine Course Project: a Qualitative Study Sep.2020-Jan.2021
Group Leader; Advisor: Professor Hui Yin, Department of Global Health, PUHSC
➢ Led the entire process of a qualitative research study focused on sources and mechanisms of peer pressure among Peking University undergraduates, which entailed overseeing data collection, data analysis, and drafting the report and publication.
➢ As the first author, this study was accepted as a poster presentation by the Consortium of Universities for Global Health (CUGH).
➢ Honed skills in brainstorming research topics, team management, qualitative data collection and management, and qualitative analysis using NVivo software.

INTERNSHIP

Beijing Chaoyang District Center for Diseases Prevention and Control (CDC) Sep.2022-Nov.2022
➢ Aided in the Disinfection and Vector Control Department, conducting field inspections with the supervising officer to examine public health standard compliance across various public places.
➢ Led the epidemiological investigation team during a COVID-19 resurgence, coordinating team members in collecting and compiling contact tracing information via community phone calls.

Beijing Haidian Hospital Feb.2021-Jan.2022
➢ Learned clinical theory and skills in internal medicine, surgery, and pediatrics, practiced basic clinical skills, such as cardio-pulmonary resuscitation and electrocardiography, and participated in case discussions.
➢ Completed internship rotations in Internal Medicine, Surgery, Obstetrics and Gynecology, Pediatrics, Community Health Center, and within the Infectious Disease Research Institute.
➢ Assisted in electrocardiogram examinations, surgical suturing, and ward rounds with the attending physician.

EXTRACURRICULAR ACTIVITIES

Global Health Governance Training Program, Mahidol University & Thai Ministry of Public Health Aug.2023-Sep.2023
Core Member
➢ Communicated with professors and students from Mahidol University, discussing tobacco control, maternal and child health, and air pollution.
➢ Engaged with officials and experts from the Ministry of Public Health of Thailand, exchanged ideas and discussed innovative health financing, disease surveillance, and traditional medicine practices.

Preventive Medicine Undergraduate Class, PUHSC Mar.2022-Jul.2023
Class Monitor, Class Committee
➢ Managed daily class affairs and organized activities to enhance student engagement and cohesion.

The Student Branch of Peking University Red Cross Society, Peking University Sep.2022-Sep.2023
President
➢ Oversaw the branch's daily operations, led promotional and designed initiatives to enhance visibility and engagement.

SELECTED HONORS AND AWARDS

➢ Silver Award, 8th China International "Internet+" Innovation and Entrepreneurship Competition Apr.2023
➢ First Prize, 29th "Challenge Cup" Interdisciplinary Competition at Peking University Jun.2021
➢ First Prize, 28th "Challenge Cup" Interdisciplinary Competition at Peking University Jun.2020

PROFESSIONAL SKILLS

➢ **Computer Skills**: R, Stata, SPSS, Python, C, EpiData, PASS, ArcGIS, ENVI, IDL, Linux Command, Word, Excel, PowerPoint, Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro.
➢ **Language Skills**: Chinese (Native), English (Fluent).
➢ **Hobbies**: Programming, Language learning, Table Tennis, Badminton, Tennis, Basketball, Swimming.