

Mingyue Zheng

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[Researcher Profiles](#), [LinkedIn](#), [Google Scholar](#)

As an early-career researcher and data scientist, I have dedicated myself to chronic disease prevention and management for nearly 10 years. I published **17 academic papers** of quantitative and qualitative research in peer-reviewed journals and international conferences. I attracted over **\$ 115,000 grant funding** from Australia, UK, and China. My PhD project **used a national general practice database (MedicineInsight)** with data from 650+ general practices, of 2.5 M+ patients with 13M+ clinical encounters in their electronic health records (EHR).

EDUCATION

PhD in Medicine Candidate, University of Adelaide, Australia	2019 – 2023
<ul style="list-style-type: none">Full PhD scholarship, Konrad Jamrozik Student Scholarship, Adelaide Medical School HDR Research Support Awards (three times), Australasian Diabetes Congress Registration Grant, Adelaide Graduate Award	
MSc Nutrition, Physical Activity and Public Health, University of Bristol, UK	2016 – 2018
<ul style="list-style-type: none">Graduated with Merit, Bristol Plus Award (Top 5%) & Sports Leadership Award	
BSc Biological Science, Chengdu, University of Traditional Chinese Medicine (TCM), China	2011 – 2015
<ul style="list-style-type: none">GPA: 3.65, Outstanding Student Representative, Outstanding Social Worker	

EXPERIENCE

Academic Committee Adviser (Part-time, remote work)	2019 – 2022
Sichuan Shishihoupu Health Management Co., Ltd, Sichuan, China	
<ul style="list-style-type: none">Managed large clinical databases including big data extraction, analyses, and interpenetrationConducted monitoring and evaluation of hospital-based diabetes and weight management research projects	
Research Assistant	2017 – 2019
School of Health and Rehabilitation&Advanced Education Research and Quality Evaluation Center, Chengdu University of TCM, Sichuan, China	
<ul style="list-style-type: none">Conducted epidemiology studies (e.g, literature searching, data extraction, synthesis, and critical appraisal)Applied local and international grants of disease management using multiple digital devicesPrepared and assisted workshops, seminars, experiments for post-graduate and undergraduate students	

SELECTED PROJECTS

MedicineInsight database - four national projects (Stata, Tableau)	
<ul style="list-style-type: none">Identified high risk of diabetes group in Australian general practice using EHRs of 1.5M patients, and results was reported in Newsletter (Medical Xpress - medical research advances and health news)Investigated the different national profile between newly diagnosed diabetes and prevalent diabetes from 2.5M patients' EHR, found less than 20% of patients had blood glucose, blood pressure and cholesterol under control.Evaluated the effectiveness of Metformin use for prediabetes therapy by using an contractual approach; the used comprehensive syntax and models can be used for other national medical databasesCompared glucose changes between early or delay use of anti- diabetic medication from 10M+ issued prescriptions and provided evidence to stakeholders, which had potential impact on pharmacologic policy changes	
Self-built TCM Prescription Database (R, Ms Excel)	
<ul style="list-style-type: none">Processed and tested the dosage of Danggui and Chuanxiong and selected the optimal copula function (Link)Evaluated the dosage relationship between Panax ginseng and AMK by t-copula function for diabetes mellitus, diarrhea, and insomnia treatment (Link)	
Continuous glucose monitoring qualitative data collection and analysis (Revman, Nvivo, SPSS, Visio)	
<ul style="list-style-type: none">Evaluated the effects of CGM and self-blood glucose monitoring or usual care on blood glucose levels, weight, blood pressure, and user satisfaction in 1,311 adult patients with type 2 diabetes (Link).	

SKILLS

<ul style="list-style-type: none">Programming & Tools: Stata, Python, SQL, Winbugs, Tableau, R, Revman, Nvivo, Ms Excel, Ms VisioModeling & Data analysis: A/B test, Bayesian statistics, causal inference, Machine Learning (classification, Regressions, Random Forest, Decision Tree), Time series analysis, Survival analysis, Free-text analysis, Big data extraction and analysis, Experimental Design and relational analysis techniques	
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COMMUNITY CONTRIBUTIONS

Mackillop Ward (Rehabilitation), Calvary Adelaide Hospital, Australia	Oct/2019-April/2022
<ul style="list-style-type: none">Worked with patients, health carers, and stakeholders to deliver customize quality service	
International charity project organizer, Sue Ryder, UK	June/2016-June/2017
<ul style="list-style-type: none">Advocated innovative management ideas and initiated worldwide influential campaign programs	
Volunteer Teacher, Sing Buri Primary School, Thailand	Aug-Sept/2014
<ul style="list-style-type: none">Provided professional advice to nutrition and workshops with multicultural competence	