

Shiying He

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PROFESSIONAL SUMMARY

- Research Assistant with the Asia Centre for Health Security and NUS-Lancet Commission on Pandemic Readiness through Institutions, Mobilising Communities, and Equity (PRIME), and co-author of its final report. Working towards a more equitable vision of health security and pandemic preparedness.
- Previously a Market Access and Health Economics Analyst in pharmaceutical consulting for two years, focusing on the Asia Pacific. Spent three years as an undergraduate working on global health research projects including global COVID-19 vaccine equity, antimicrobial resistance (AMR) policy in Asia, and HIV/AIDS in Myanmar.
- Strong project management, problem solving and interpersonal skills. Proficient at designing systematic literature reviews (SLRs), developing health technology assessment (HTA) submissions, and supporting the adaptation of cost-effectiveness models to enhance patient access to essential medicines and vaccines.
- Endeavours outside work include a repository on the biosecurity statements of AI biological design tools, engagement with the Southeast Asia Biosecurity Interest Group, painting and writing.

WORK EXPERIENCE

Research Assistant | Asia Centre for Health Security, NUS

Aug 2024 – Present

Core Team, NUS-Lancet PRIME Commission

- Conducting a scoping review and qualitative interview study focused on One Health capacity building for a project led by Dr. Alvin Chua.
- Led the Commission's Singapore country case study end-to-end, conducting 40 in-depth interviews with policymakers, civil society, academia and community groups, from IRB approval through to analysis and write-up.
- Co-authored the Commission's final report, contributing to the cross-country analysis across 20 country studies and to addressing peer reviewer comments through to publication.
- Co-developed the Commission's qualitative research protocols for a community-informed, whole-of-society analysis of national COVID-19 responses and current pandemic preparedness efforts, implemented across 20 countries.
- Served as the Commission's focal point for partner country teams (Japan, Thailand, Indonesia, Laos), advising on protocol adaptations and leading regular check-ins to ensure cross-country alignment and adherence to timelines.
- Supported the coordination of virtual and in-person high-level meetings in Spain and Singapore convening Commissioners and country coordinators from 20 countries.

Analyst, Market Access and Health Economics | Costello Medical Consulting

Jul 2022 – Feb 2024

- Coordinated projects across UK and APAC teams valued at ~\$100k each, achieving an average client satisfaction level of 9.8/10.
- Designed and delivered SLRs evaluating clinical, economic and real-world evidence. Synthesised findings into reports to inform client market access strategies across disease areas and therapeutic products.
- Supported cost-effectiveness model adaptations to estimate the economic value of pharmaceutical products in high-income and low- and middle-income (LMIC) settings to inform HTA submissions and client market access strategies.
- Developed HTA dossiers for novel drug therapies and vaccines that supported assessments of treatments impacting over 2 million patients in Singapore and the UK.
- Developed slide sets, dossiers and reports that demonstrated the clinical and economic value of medicinal products to healthcare payers, healthcare professionals and patients.

Global Health Student Research Assistant | National University of Singapore

Jan 2019 – May 2022

- Led a scoping review of the influence of global governance architecture and key players on global vaccine equity during the COVID-19 pandemic with Prof. Natasha Howard.
- Led a social network analysis of AMR experts to inform regional AMR policy in Asia with Prof. Helena Legido-Quigley and Prof. Adam Henry (publications below).
- Conducted epidemiological analyses of (1) vaccine hesitancy among university students and (2) HIV/AIDS testing in Myanmar to inform HIV testing policy with Prof. Clarence Tam.
- Evaluated Singapore's COVID-19 pandemic risk communication and community engagement (RCCE) strategies through focus group discussions with Prof. Helena Legido-Quigley.

Communications Specialist | Unbiased Science Institute, USA

Apr 2021 – Aug 2022

- Authored a weekly COVID-19 newsletter for an audience of 191,000, achieving open rates 3x the industry average.

PUBLICATIONS

Calderon-Larranaga S, Bakhti R, Etemadi M, Fakih L, Vandeskog HO, Shrestha P, **He S**, et al. The NUS–Lancet PRIME Commission: Transforming Pandemic Readiness for Equity. *The Lancet*. *Forthcoming 2026*. *Joint second author*.

Ang C, **He S**, Schenck M, Calderon-Larranaga S, Vandeskog HO, Bakhti R, Legido-Quigley H. Exploring the Role and Structures of Scientific Advice in Shaping Policy Responses to COVID-19: A Scoping Review of Global Practices and Lessons Learned. *BMJ Global Health*. *Forthcoming 2026*.

Santoro JD, Demakakos P, **He S**, Kumar S, Murton M, Tennigkeit F, Hemingway C. A Systematic Review of the Epidemiology of Pediatric Autoimmune Encephalitis: Disease Burden and Clinical Decision-Making. *Frontiers in Neurology*. 2024;15:1408606.

He S, Shrestha P, Henry AD, Legido-Quigley H. Leveraging Collaborative Research Networks against Antimicrobial Resistance in Asia: A Mixed-Methods Analysis. *Frontiers in Public Health*. 2023;11:1191036.

Shrestha P, **He S**, Legido-Quigley H. Antimicrobial Resistance Research Collaborations in Asia: Challenges and Opportunities to Equitable Partnerships. *Antibiotics*. 2022; 11(6):755.

EDUCATION AND AWARDS

London School of Hygiene and Tropical Medicine (LSHTM)

Master of Science in Public Health (Part-Time, Distance Learning Student)

Oct 2025 – Aug 2027

Leader of Tomorrow, 54th St. Gallen Symposium

Selected as one of 100 globally-nominated attendees; held at the University of St. Gallen, Switzerland

May 2025

National University of Singapore (NUS)

GPA: 4.63/5.00

Bachelor of Arts in Global Studies, Minor in Public Health

Aug 2018 – May 2022

- Recipient of the NUS Global Merit Scholarship and the University Scholars Programme Honour Roll.
- Recipient of the Laidlaw Undergraduate Research and Leadership Scholarship.

Ngee Ann Polytechnic, Singapore

GPA: 3.99/4.00

Diploma with Merit in Pharmacy Science

Apr 2015 – Feb 2018

- Recipient of the Lee Kuan Yew Award for the top student from a science and technology course.
- Recipient of the National University Hospital Gold Medal and Prize for best performance in Pharmacy Science.

TECHNICAL SKILLS

Tools: Microsoft Word, Excel and PowerPoint, R, Stata, NVivo, Python, SPSS, Rayyan.

Research: Data Analysis, Data Visualisation, Epidemiology, Focus Group Discussions, Health Technology Assessments, In-Depth Interviews, Medical Writing, Social Network Analysis, Systematic Literature Reviews, Thematic Analysis.

Languages: English (Fluent), Mandarin (Native Speaker).