

Jinyi Zhu

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ACADEMIC APPOINTMENTS

Vanderbilt University School of Medicine, Nashville, TN

Assistant Professor, Department of Health Policy

2022–present

EDUCATION

Harvard University, Cambridge, MA

Ph.D. in Health Policy (Decision Sciences track)

2022

Yale University, New Haven, CT

M.P.H. in Health Policy

2016

Peking University, Beijing, China

B.S. in Biological Science

2014

B.A. in Economics

2014

University of Toronto, Toronto, Canada

Public Health (Study Abroad Program)

Fall 2012

PUBLICATIONS

Peer-reviewed Original Research

- **Zhu J**, Lyatuu G, Sudfeld CR, Kiravu A, Sando D, Machumi L, Minde J, Chisonjela F, Cohen T, Menzies NA. Re-evaluating the Health Impact and Cost-effectiveness of Tuberculosis Prevention for Modern ART Cohorts: A Modelling Analysis Using Data From Tanzania. *The Lancet Global Health*. 2022.
- Pandya A, Paulden M, **Zhu J**, Lavelle T, Hammitt J. Trends in Author-Reported Cost-Effectiveness Thresholds in the US from 1995-2018: Implications for Discount Rates. *Medical Decision Making*. 2022.
- Chen T, Huang S, Li G, Zhang Y, Li Y, **Zhu J**, Shi X, Li X, Xie G, Zhang L. An integrated framework for modelling quantitative effects of entry restrictions and travel quarantine on importation risk of COVID-19. *J Biomed Inform*. 2021.

- Gupta S, **Zhu J**, McCarty TR, Pruce J, Kassam Z, Kelly C, Fischer M, Allegretti JR. Cost-Effectiveness Analysis of Sequential Fecal Microbiota Transplantation for Fulminant C. difficile Infection. J Gastroenterol Hepatol. 2021.
- He Q, **Zhu J**, Wang A, Ji K, Ji X, Zhang J, Wu X, Li X, Bu Z, Ji J. A Decision Analysis Comparing Three Strategies for Peritoneal Lavage Cytology Testing in Staging of Gastric Cancer in China. Cancer Med. 2020.
- Spahillari A*, **Zhu J***, Ferket BS, Hunink MGM, Carr JJ, Terry JG, Nelson C, Mwasongwe S, Mentz RJ, O'Brien EC, Correa A, Shah, RV, Murthy VL, Pandya A. Cost-Effectiveness of Contemporary Statin-Allocation Guidelines with or without Coronary Artery Calcium in African Americans. JAMA Cardiol. 2020.

(*Co-first authors)

- Mason SE, **Zhu J**, Rahaghi FN, Washko GR, Pandya A. Cost-effectiveness microsimulation of catheter-directed thrombolysis in submassive pulmonary embolism using a right ventricular function model. J Thromb Thrombolysis. 2020.
- Pandya A, Doran T, **Zhu J**, Walker S, Arntson E, Ryan AM. Modelling the cost-effectiveness of pay-for-performance in primary care in the UK. BMC Med. 2018.

Editorials/Commentaries/Correspondence

- **Zhu J**, Pandya A. The Advantages and Nuances of Using Disability-Adjusted Life Years to Characterize Cardiovascular Disease Burden: Insights From Parents and Offspring. Circ Cardiovasc Qual Outcomes. 2022.
- Pandya A, **Zhu J**, Spahillari A. Cost-effectiveness of Statin Use Guidelines-Reply. JAMA Cardiol. 2021.

WORKING PAPERS

- **Zhu J**, Haneuse S, Menzies NA, Pandya A. *“Evaluating Bias and Variance across Different Validation Methods for Simulation Models.”* Under review.
- Corlis J, **Zhu J**, Macul H, Tiberi Orrin, Boothe MAS, Resch SC, *“Incorporating patient perspectives and affordability measures in cost-effectiveness analysis—with an illustrative case of HIV treatment in Mozambique.”* Under review.
- **Zhu J**, Kamel H, Gupta A, Mushlin AI, Menzies NA, Gaziano TA, Rosenthal MB, Pandya A. *“Prioritizing Quality Measures in Acute Stroke Care: A Cost-Effectiveness Analysis.”* R&R, Annals of Internal Medicine.

CONFERENCE PRESENTATIONS

- **Zhu J**, Kamel H, Rosenthal MB, Pandya A, *“Prioritizing Quality Measures in Acute Stroke Care – A*

Cost-effectiveness Framework,” E-Poster Presentation at the SMDM Annual North American Meeting, 2021.

- **Zhu J**, Lyatuu G, Sudfeld CR, Menzies NA, “*Health and Economic Implications of an Isoniazid Preventive Treatment Expansion Program Among People Living with HIV in Tanzania*,” Oral Virtual Presentation at the International Health Economics Association (iHEA) Congress, 2021.
- **Zhu J**, Sy S, Sudfeld CR, Pandya A, Lyatuu G, Menzies NA, “*The Use of Common Random Numbers in Improving the Efficiency of Microsimulation Model Calibration*,” Oral Virtual Presentation at the SMDM Annual North American Meeting, 2020.

Lee B. Lusted Student Award finalist in the Quantitative Methods and Theoretical Development Category

- **Zhu J**, Pandya A, “*Evaluating Bias and Variance across Methods for Microsimulation Model Validation*,” Poster Presentation at the SMDM Annual North American Meeting, Portland, OR, 2019.

Lee B. Lusted Student Award winner in the Quantitative Methods and Theoretical Development Category

- **Zhu J**, Pandya A, “*Friends with (Targeting) Benefits: Modeling Communicable Disease Interventions with and without the Friendship Paradox*,” Poster Presentation at the SMDM Annual North American Meeting, Montreal, QC, Canada, 2018.

Lee B. Lusted Student Award finalist in the Quantitative Methods and Theoretical Development Category

INVITED TALKS

- “*Prioritizing Quality Measures in Acute Stroke Care using a Cost-Effectiveness Approach*”
 - [Virtual] Department of Health Policy, Vanderbilt University School of Medicine, Nashville, TN, 2022
 - [Virtual] Department of Health Systems, Management & Policy, Colorado School of Public Health, Aurora, CO, 2022
- “*Evaluating Bias and Variance across Different Validation Methods for Simulation Models*”
 - [Virtual] Health Economics Seminar, University of Oslo, Norway, 2021
 - [Virtual] Program in Health Economics and Outcomes Research Methodologies (PHEnOM), University of Washington, Seattle, WA, 2020
- “*Cost-Effectiveness Analysis and Health Decision Science: A Primer*”
 - National Clinical Research Center for Neurological Diseases, Beijing, China, 2020
 - Health Economics Seminar, National School of Development, Peking University, Beijing, China, 2018

TEACHING EXPERIENCE

Vanderbilt University, *Instructor/Co-Instructor*

- Health Policy Research Seminar *Fall 2022, Spring 2023*
- Health Economics Modeling Workshop (in partnership with Vital Strategies and the CDC Foundation; ~30 participants from ~15 countries) *Fall 2022*

Harvard University, Teaching Assistant

- Health Economics with Applications to Global Health Policy *Summer 2021*
- Decision Science for Public Health *Spring 2021*
- Decision Analysis for Health and Medical Practices *Fall 2016, 2017, 2018[#], 2019[#], 2020*
([#]Head Teaching Assistant)
- Experiential Learning and Applied Research in Decision Analysis *Spring 2020*
- Decision Analysis Methods in Public Health and Medicine *Spring 2020*
- Methods for Decision Making in Medicine *Summer 2017, 2018, 2019*
- Analytic Frameworks for Policy *Fall 2018*
- Decision Analysis in Clinical Research *Summer 2017*
- Methods in Health Services Research *Spring 2016*
- Cost-effectiveness Analysis and Decision Making *Fall 2015*

Yale School of Public Health, Teaching Assistant

- Methods in Health Services Research *Spring 2016*
- Cost-effectiveness Analysis and Decision Making *Fall 2015*

FELLOWSHIPS, AWARDS & HONORS

- Joan P. Curhan Citizenship Award, *Harvard Interfaculty Initiative in Health Policy* *2022*
- Dissertation Completion Fellowship, *Harvard Graduate School of Arts and Sciences* *2021-2022*
- Teaching Assistant Recognition Award, *Harvard T.H. Chan School of Public Health* *2021*
- Harvard China Health Partnership Research Award (2,800 USD), *Harvard China Health Partnership* *2020*
- Lee B. Lusted Student Prize Stephen Pauker Award for Quantitative Methods and Theoretical Development, *The Society for Medical Decision Making (SMDM)* *2019*
- Distinction in Student Teaching for Teaching Fellows, *Harvard Kennedy School* *2019*
- Howard Raiffa Grant for Teaching Innovations (4,500 USD), *Harvard University* *2018*
- Next Generation Fellowship (merit-based award to cover tuition for the M.P.H. degree program, 65,000 USD), *China Medical Board and Institute of International Education* *2014*

PROFESSIONAL SERVICES & AFFILIATIONS

Professional affiliations: Society for Medical Decision Making | International Health Economics

Association

Statistical reviewer: JAMA Network Open

Ad-hoc peer reviewer: Applied Health Economics and Health Policy | BMC Health Services Research | BMC Public Health | BMJ | Clinical Infectious Diseases | The Lancet Global Health | Medical Decision Making | MDM Policy & Practice | Occupational Medicine | Pharmacoeconomics - Open | PLOS One