

# Jinyi Zhu

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## ACADEMIC APPOINTMENTS

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**Vanderbilt University School of Medicine**, Nashville, TN

Assistant Professor, Department of Health Policy

2022 – present

## EDUCATION

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**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

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- 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, Puce 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.
- Pandya A, **Zhu J**, Spahillari A. *Cost-effectiveness of Statin Use Guidelines-Reply*. JAMA Cardiol. 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.

## WORKING PAPERS

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- **Zhu J**, Lyatuu G, Sudfeld CR, Cohen T, Kiravu, A, Menzies NA. *“Health and Economic Implications of Tuberculosis Prevention Among People Living with HIV in a High-Burden Setting: A Modelling Analysis.”* Revise & Resubmit at *The Lancet Global Health*.
- **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 using a Cost-Effectiveness Approach.”* In preparation.

## CONFERENCE PRESENTATIONS

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- **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

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- “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

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### **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<sup>#</sup>, 2019<sup>#</sup>, 2020*  
(<sup>#</sup>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*

**Yale School of Public Health, Teaching Assistant**

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

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**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*

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**PROFESSIONAL SERVICE AND AFFILIATIONS**

- Professional affiliations:** Society for Medical Decision Making | International Health Economics Association
- Peer Review Referee:** BMJ | Medical Decision Making | MDM Policy & Practice | PLOS One