

## CURRICULUM VITAE

Marika Mae Cusick, PhD, MS

### PROFESSIONAL DATA

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Pronouns: she/her/hers

### EDUCATION AND TRAINING

PhD	2025	Stanford University	Health Policy (Decision Science) Dissertation: Models to inform decision-making in chronic kidney disease Committee: Jeremy Goldhaber-Fiebert, Douglas Owens, Sherri Rose
MS	2019	Cornell University	Information Science in Health Tech
BA	2017	Cornell University	Statistical Science

### PROFESSIONAL EXPERIENCE

#### *Johns Hopkins University*

Assistant Professor. Department of Health Policy and Management, Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University. August 2025 – present.

Core Faculty. Center for Population Health Information Technology, Johns Hopkins Bloomberg School of Public Health, Johns Hopkins University. August 2025 – present.

Core Faculty. Hopkins Business of Health Initiative, Johns Hopkins University, August 2025 – present.

#### *Other Non-JHU Professional Experience*

Research Informatics Analyst, Weill Cornell Medicine, 2019-2020

### PROFESSIONAL ACTIVITIES

#### *Society Membership*

2020-present Society for Medical Decision-Making

## EDITORIAL AND PEER REVIEW ACTIVITIES

### *Journal Peer Review Activities*

Annals of Internal Medicine  
Journal of American Medical Informatics Association  
Journal of American Medical Informatics Association Open  
Medical Care  
Pharmacoeconomics  
Journal of Psychiatric Research  
Kidney International  
Medical Decision Making  
Medical Decision Making – Policy and Practice  
Stanford Journal of Science, Technology, and Society  
Applied Clinical Informatics

### *Conference Abstract and Paper Peer Reviews*

AMIA Informatics Summit (2020)  
Society for Medical Decision-Making 48<sup>th</sup> Annual Meeting (2026)  
7<sup>th</sup> Annual Conference on Health, Inference, and Learning (2026)  
*Area Chair for Impact and Society: Policy, Public Health, Social Outcomes, and Economics*

## HONORS AND AWARDS

### *Awards*

- 2025 Stanford Medicine Rigor and Reproducibility Award
  - Recognized as a member of the Health Policy Data Science Lab for the “highest standard of research at Stanford School of Medicine”
- 2023 Stanford Interdisciplinary Graduate Fellowship (3 years of full PhD funding)
- 2023 Society for Medical Decision-Making Lee B. Lusted Student Prize Finalist (Applied Health Economics)
- 2021 Society for Medical Decision-Making Lee B. Lusted Student Prize Finalist (Applied Health Economics)
- 2020 Agency for Health Research and Quality National Research Service Award T32 Fellow

## PUBLICATIONS

### **Journal Articles (peer-reviewed)**

1. Foryciarz A, Alarid-Escudero, Basel G, **Cusick M**, Phillips L, Bazemore A, Adams A, Rose R. A microsimulation-based framework for mitigating societal bias in primary care data. *Medical Decision Making* 2026; In press.

2. **Cusick M**, Alarid-Escudero F, Goldhaber-Fiebert J, Rose S. A novel decision-modeling framework for health policy analyses when outcomes are influenced by social and disease processes. *Medical Decision Making* 2026; In press.
3. **Cusick M**, Tisdale R, Adams A, Chertow G, Salomon J, Owens D, Goldhaber-Fiebert J. Balancing efficiency and equity in population-wide CKD screening. *JAMA Network Open* 2025; 8(4):e254740
4. **Cusick M**, Tisdale R, Chertow G, Owens D, Goldhaber-Fiebert J, Salomon J. When to start population-wide screening for chronic kidney disease: a cost-effectiveness analysis. *JAMA Health Forum* 2024; 5(11):e243892.
5. **Cusick M**, Chertow G, Owens D, Williams M, Rose S. Algorithmic changes are not enough: evaluating the removal of race adjustment from the eGFR equation. *Conference on Health, Inference, and Learning Proceedings* 2024; 248, 644–682.
6. Krichevsky S, Sholle E, Adekkanattu P, Abedian S, Ouseph M, Taylor E, Abu-Zeinah G, Jaber D, Sosner C, **Cusick M**, Savage N, Silver R, Scandura J, Campion T. Automated information extraction from unstructured hematopathology reports to support response assessment in myeloproliferative neoplasms. *Methods of information in Medicine* 2024; 63(5), 176-182
7. **Cusick M**, Tisdale R, Chertow G, Owens D, Goldhaber-Fiebert J. Population-wide screening for chronic kidney disease: a cost-effectiveness analysis. *Annals of Internal Medicine* 2023; 176(6):788–97  
     *With Reply: Cusick M*, Tisdale R, Chertow G, Owens D, Goldhaber-Fiebert J. Population-wide screening for chronic kidney disease. *Annals of Internal Medicine* 2024; 177 (1): eL230270
8. Majumder M\*, **Cusick M\***, Rose S. Measuring concordance of data sources used for infectious disease research. *BMJ Open* 2023; 13(2): e065751(\*Equal contribution)
9. Geldsetzer P, Heemann M, Tikka P, Wang G, **Cusick M**, Lenjani A, Krishnan N. Prevalence of short peer reviews in 3 leading general medicine journals. *JAMA Network Open* 2023; 6(12): e2347607
10. Cliffe C, **Cusick M**, Velupillai S, Shear M, Downs J, Epstein S, Pathak J, Dutta R. A multisite comparison using electronic health records and natural language processing to identify the association between suicidality and hospital readmission among patients with eating disorders. *International Disorder of Eating Disorders* 2023; 56(8):1581–92
11. **Cusick M**, Rowland S, DeFelice N. Impact of air pollution on running performance. *Scientific Reports* 2023; 13 (1), 1832
12. Sholle E, Davila M, Kostka K, Abedian S, **Cusick M**, Krichevsky S, Pathak J, Campion T. Comparative merits of available mortality data sources for clinical research 2023. *AMIA Annual Symposium Proceedings* 2023; 634
13. Tisdale R\*, **Cusick M\***, Zhang K, Handley T, Joyner AK, Salomon J, Chertow G, Goldhaber-Fiebert J, Owens D. Cost-effectiveness of dapagliflozin for non-diabetic chronic kidney disease. *Journal of General Internal Medicine* 2022; 37 (13), 3380-3387  
     \*These authors contributed equally to the manuscript and are co-first authors

14. **Cusick M\***, Velupillai S\*, Downs J, Champion T, Sholle E, Dutta R, Pathak J. Portability of natural language processing methods to detect suicidality from clinical text in US and UK electronic health records. *Journal of Affective Disorders Reports* 2022; 10, 10043  
\*These authors contributed equally to the manuscript and are co-first authors
15. Abedian S, Sholle E, Adekkanattu P, **Cusick M**, Weiner S, Shoag J, Hu J, Champion T. Automated extraction of tumor staging and diagnosis information from surgical pathology reports. *JCO Clinical Care Informatics* 2021; 5:1054-61
16. **Cusick M**, Adekkanattu P, Champion T, Sholle E, Myers A, Banerjee S, Alexopoulos G, Wang Y, Pathak J. Using weak supervision and deep learning to classify clinical notes for identification of current suicidal ideation. *Journal of Psychiatric Research* 2021; 136, 95-102
17. Schenck E, Hoffman K, **Cusick M**, Kabariti J, Sholle E, Champion, T. Critical care Database for Advanced Research (CEDAR): An automated method to support intensive care units with electronic health record data. *Journal of Biomedical Informatics* 2021; 118, 103789
18. Lin E, Lantos J, Strauss S, Phillips C, Champion T, Navi B, Parikh N, Merkler A, Mir S, Zhang C, Kamel H, **Cusick M**, Goyal P, Gupta A. Brain imaging of patients with COVID-19: findings at an academic institution during the height of the outbreak in New York City. *American Journal of Neuroradiology* 2020; 41(11):2001-8
19. Merkler A, Parikh N, Mir S, Gupta A, Kamel H, Lin E, Lantos J, Schenck J, Goyal P, Bruce S, Kahan J, Lansdale K, LeMoss N, Murthy S, Stieg P, Fink M, Iadecola C, Segal A, **Cusick M**, Champion T, Diaz I, Zhang C, Navi B. Risk of ischemic stroke in patients with coronavirus disease 2019 (COVID-19) vs. patients with influenza. *JAMA Neurology* 2020; 77(11):1366-72
20. **Cusick M**, Sholle E, Davila M, Kabariti J, Cole C, Champion T. A method to improve availability and quality of patient race data in an electronic health record system. *Applied Clinical Informatics* 2020; 11(05),785-791
21. Sholle E, **Cusick M**, Davila M, Kabariti J, Flores S, Champion T. Characterizing basic and complex usage of i2b2 at an Academic Medical Center. *AMIA Summits on Translation Science Proceedings* 2020; 589

## Preprints

1. Lepow L, Adekkanattu P, **Cusick M**, Coon H, Fennessy B, O'Connell S, Pierce C, Rabbany J, Sharma M, Olsson M, Bakian A, Xiao Y, Mullins N, Nadkarni G, Charney A, Pathak J, Mann J. A natural language processing pipeline based on the Columbia suicide severity rating scale.

## PRACTICE ACTIVITIES

### Practice-Related Reports

1. Stanford Human-Centered Artificial Intelligence. The Complexities of Race Adjustment in Health Algorithms.; 2024. <https://hai.stanford.edu/policy-brief/The-Complexities-of-Race-Adjustment-in-Health-Algorithms>
2. Public Health Post. Air Pollution's Effect on Athletic Performance.; 2023. <https://publichealthpost.org/environment/air-pollutions-effect-on-athletic-performance/>

### **Media Dissemination:**

1. Liam Drew. "Making kidney tests work for everyone." Nature Outlook. December 12 2024. <https://www.nature.com/articles/d41586-024-04100-y>
2. Isabella Cueto. "Routine screening for kidney disease would be cost-effective, study argues." May 22 2023. <https://www.statnews.com/2023/05/22/chronic-kidney-disease-screening-found-cost-effective/>

## **PART II**

### **TEACHING**

#### *Academic Advisees*

2023 Nakaya Frazier (Visiting Undergraduate)  
 2023 Kelvin Nguyen (Visiting Undergraduate)

#### *Classroom Instruction*

1<sup>st</sup> Term 2025 Economic Evaluation 1 (Graduate), Department of Health Policy and Management, Bloomberg School of Public Health, Johns Hopkins University, Co-instructor

Spring 2023 Analysis of Costs, Risks, and Benefits of Health Care, Department of Health Policy, Stanford University School of Medicine, Stanford University, Teaching Assistant

Summer 2024 Health Policy Summer Math Bootcamp, Department of Health Policy, Stanford University School of Medicine, Stanford University, Co-instructor

Spring 2019 Health Tech, Data, and Systems, Department of Information Science, Cornell Tech, Cornell University, Teaching Assistant

Spring 2018 Product Studio, Cornell Tech, Cornell University, Teaching Assistant

### **RESEARCH AND PRACTICE FUNDING**

#### **Internal JHU Funding**

Agency: Hopkins Business of Health Initiative

Grant title: Burden of Cardiovascular-Kidney-Metabolic Health in the U.S. Population

PI: Cusick, Marika

Dates: 9/15/2025-9/15/2026

Agency: Hopkins Business of Health Initiative

Grant title: Assessing the Fairness of the Kidney Failure Risk Equation as a Decision Tool

PI: Cusick, Marika

Dates: 1/1/2026-12/31/2026

Agency: Mid-Atlantic Center for Cardiometabolic Health

Grant title: Operationalizing Cardiovascular-Kidney-Metabolic Staging Using Real-World Claims, Electronic Health Records, and Geographic-Level Social Risk Measures

Dates: 2/1/2026-6/30/2026

### **Internal Stanford Funding**

Stanford Interdisciplinary Graduate Fellowship (2023-2026)

Awarded three years of doctoral funding

## **ACADEMIC SERVICE**

### *Department*

2023-2025 Justice, Equity, Diversity, and Inclusion Committee, Department of Health Policy, Stanford University School of Medicine, Stanford University

2021-2025 Peer Mentorship Program, Department of Health Policy, Stanford University School of Medicine, Stanford University

### *University*

2025- Faculty Coach, Varsity Women's Tennis Team, Johns Hopkins University

2025- Faculty Mentor, Hopkins Business of Health Initiative Graduate Academy

2023 Stanford Population Health Summer Program: Advancing Health Equity and Diversity (AHEaD)

2021-2022 Stanford Biosciences Student Association First Year Mentorship Program, Stanford University School of Medicine, Stanford University

## **PRESENTATIONS**

### *Scientific Meetings*

1. "A novel microsimulation framework for health policy analyses when outcomes are influenced by disease and social processes." *Society for Medical Decision Making* 46<sup>th</sup>

*Annual North American Meeting, 2024* (Oral presentation presented on my behalf by Jeremy Goldhaber-Fiebert)

2. “Algorithmic changes are not enough: evaluating the removal of race adjustment from the eGFR equation.” *Conference for Health, Inference, and Learning 2024* (Accepted paper)
3. “When to start population-wide screening for chronic kidney disease: a cost-effectiveness analysis.” *Society for Medical Decision Making 45<sup>th</sup> Annual North American Meeting, 2023* (Oral presentation)
4. “Cost-effectiveness of population-wide screening for chronic kidney disease in the United States: subgroup analysis by designated race/ethnicity.” *Society for Medical Decision Making 45<sup>th</sup> Annual North American Meeting, 2023* (Poster)
5. “Effectiveness of one-time screening for chronic kidney disease among U.S. adults.” *Society for Medical Decision Making 44<sup>th</sup> Annual North American Meeting, 2022* (Poster)
6. “Cost-effectiveness of dapagliflozin for non-diabetic chronic kidney disease.” *Society for Medical Decision Making 44<sup>th</sup> Annual North American Meeting, 2021* (Oral presentation)
7. “Impact of air pollution on high-caliber athletic performance.” *33<sup>rd</sup> Annual Conference of the International Society for Environmental Epidemiology, 2021* (Poster)
8. “Using weak supervision and deep learning to classify clinical notes for identification of current suicidal ideation.” *28<sup>th</sup> European Conference of Psychiatry, 2020* (Poster)
9. “Using weak supervision and deep learning to classify clinical notes for identification of current suicidal ideation.” *American Medical Informatics Association Informatics Summit, 2020* (Podium abstract)
10. “Missing and discordant race data documented in the health record systems at an academic medical center.” *American Informatics Association Annual Symposium, 2019* (Poster)

#### *Invited Seminars*

1. “Algorithmic changes are not enough: evaluating the removal of race adjustment from the eGFR equation.” *Department of Health Policy and Management, Johns Hopkins Bloomberg School of Public Health, September 24<sup>th</sup>, 2024*
2. “Health and economic consequences of screening for chronic kidney disease.” *American Society for Nephrology Kidney Week 2023*