

Noah Hammarlund

Assistant Professor

Health Services Research,
Management & Policy
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Date: April, 2024

Professional Positions

- Feb 2022–present **Assistant Professor**, *Department of Health Services Research, Management & Policy, University of Florida, Gainesville, FL.*
- Feb 2023–present **Affiliate Assistant Professor**, *Department of Urology, University of Washington, Seattle, WA.*
- Sep 2020–Feb 2022 **Postdoctoral Fellow**, *The Comparative Health Outcomes, Policy, and Economics Institute, University of Washington, Seattle, WA.*
- Sep 2018–Sep 2020 **Senior Fellow Trainee**, *National Library of Medicine - Biomedical Informatics and Medical Education, University of Washington, Seattle, WA.*

Education

- Aug 2012–Aug 2018 **Ph.D., Public Affairs**, *O'Neill School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, Focus: Health Economics, Applied Statistics, and Artificial Intelligence. Dissertation: Health Informatics and Clinical Decision Making for Priority Populations*
- Sep 2010–June 2012 **M.S., Economics**, *University of Oregon, Eugene, OR, Terminal Master's Degree Program.*
- Sep 2004–June 2008 **B.S., Economics**, *Western Washington University, Bellingham, Washington.*

Honors and Awards

- 2023 **UF Health Cancer Center Breast Cancer Pilot and Exploratory Study Grant**, University of Florida, Gainesville, \$50,000.
- 2023 **Southeastern Conference Travel Award**, Travel to Texas A&M University, \$2,500.
- 2023 **Clinical and Translational Science Institute Voucher**, University of Florida, Gainesville, \$1,000.
- 2016 **Grant-in-Aid of Doctoral Research**, Indiana University, Bloomington, \$1,000.
- 2016 **Doctoral Consortium**, Conference on Health IT and Analytics, Washington, DC, \$500.
- 2012–2016 **Graduate Fellowship**, SPEA Indiana University, Bloomington.

Funding Sources

- 2020–2022 **Postdoctoral Fellowship**, Health Tech Fund - Public-Private Partnership Grant - University of Washington - CHOICE.
- 2020–2022 **Postdoctoral Fellowship**, CARES Foundation Grant - Seattle Cancer Care Alliance - University of Washington.
- 2018–2020 **Senior Fellow Trainee**, National Library of Medicine - University of Washington - Biomedical Informatics and Medical Education.
- 2016 **Grant-in-Aid of Doctoral Research**, Indiana University, Bloomington.
- 2012–2016 **Graduate Fellowship**, Indiana University, Bloomington.

Bibliography

[Published](#)

1. **Hammarlund, N.**, Holt, S., Basu, A., Etzioni, R., Moorehead, D., Lee, J., Wolf, E., Gore, J., Nyame, Y. A., 2023. Isolating the Drivers of Racial Inequities in Prostate Cancer Treatment. *Cancer Epidemiology, Biomarkers & Prevention*.
2. Kim, H., Mahmood, A., Chang, C., **Hammarlund, N.**, Dobalian, A., 2023. Impact of the Affordable Care Act on participation in the Supplemental Nutrition Assistance Program among low-income older Medicare beneficiaries. *BMC Health Services Research*.
3. Bergquist, T., ..., **Hammarlund, N.**, ..., Mooney, S., 2023. Evaluation of crowdsourced mortality prediction models as a framework for assessing artificial intelligence in medicine. *Journal of the American Medical Informatics Association: JAMIA*
4. Wang, R., Carrington, J., **Hammarlund, N.**, Sanchez, O., Revere, L., B., 2022. An Evaluation of Copy and Paste Events in Electronic Notes of Patients with Hospital Acquired Conditions. *International Journal of Medical Informatics*, 104934.
5. Saldanha, I.J., Adam, G.P., Banez, L.L., Bass, E.B., Berliner, E., Devine, B., **Hammarlund, N.**, Jain, A., Norris, S.L., Skelly, A.C. and Vander Ley, K. 2022. Inclusion of nonrandomized studies of interventions in systematic reviews of interventions: updated guidance from the Agency for Health Care Research and Quality Effective Health Care program. *Journal of Clinical Epidemiology*.
6. Saldanha, I.J., Adam, G.P., Banez, L.L., Bass, E.B., Berliner, E., Devine, B., **Hammarlund, N.**, Jain, A., Norris, S.L., Skelly, A.C. and Vander Ley, K. 2022. Inclusion of nonrandomized studies of interventions in systematic reviews of interventions: updated guidance from the Agency for Health Care Research and Quality Effective Health Care program. *Journal of Clinical Epidemiology*.
7. Lee, W., Schwartz, N., Bansal, A., Khor, S., **Hammarlund, N.**, Basu, A. and Devine, B., 2022. A Scoping Review of the Use of Machine Learning in Health Economics and Outcomes Research: Part 1-Data from Wearables. *Value in Health*.
8. Lee, W., Schwartz, N., Bansal, A., Khor, S., **Hammarlund, N.**, Basu, A. and Devine, B., 2022. A Scoping Review of the Use of Machine Learning in Health Economics and Outcomes Research: Part 2-Data from Non-Wearables. *Value in Health*.
9. Kim, H., Mahmood, A., **Hammarlund, N.**, and Chang, C.F., 2022. Hospital value-based payment programs and disparity in the United States: A review of current evidence and future perspectives. *Frontiers in Public Health*.
10. **Hammarlund, N.**, 2021. Racial treatment disparities after machine learning surgical risk-adjustment. *Health Services and Outcomes Research Methodology*, 21(2), pp.248-286.
11. Basu, A., **Hammarlund, N.**, Khor, S., Bansal, A. 2021. Understanding Algorithmic Discrimination in Health Economics Through the Lens of Measurement Errors. *National Bureau of Economic Research*, w29413.
12. Freedman, S., Goodman-Bacon, A., & **Hammarlund, N.** 2021. Observational studies of the effect of Medicaid on health: Controls are not enough. *Journal of Labor Economics*, 39(S2), S619-S650.
13. Gombor, S., Bergquist, T., Pejaver, V., **Hammarlund, N.**, Murugesan, K., Mooney, S., ... & Banaei, N. 2021. SARS-CoV-2 infection and COVID-19 severity in individuals with prior seasonal coronavirus infection. *Diagnostic microbiology and infectious disease*, 100(2), 115338.
14. Yan, Y., Schaffter, T., Bergquist, T., Yu, T., Prosser, J., Aydin, Z., ...**Hammarlund, N.**, ... 2021. A Continuously Benchmarked and Crowdsourced Challenge for Rapid Development and Evaluation of Models to Predict COVID-19 Diagnosis and Hospitalization. *JAMA network open*, 4(10), e2124946-e2124946.
15. Bergquist, T., Pejaver, V., **Hammarlund, N.**, Mooney, S. D., & Mooney, S. J. 2020. Piloting a model-to-data approach to enable predictive analytics in healthcare through patient mortality prediction. *Journal of American Medical Informatics Association*.

16. Joshi, R. P., Pejaver, V., **Hammarlund, N.**, Sung, H., Lee, S. K., Furmanchuk, ..., A., Banaei, N. 2020. A predictive tool for identification of SARS-CoV-2 PCR-negative emergency department patients using routine test results. *Journal of Clinical Virology*.
17. Bergquist, T., Pejaver, V., **Hammarlund, N.**, Mooney, S. D., & Mooney, S. J. 2020. Evaluation of the secondary use of electronic health records to detect seasonal, holiday-related, and rare events related to traumatic injury and poisoning. *BMC Public Health*, 20(1), 46.
18. Freedman, S., & **Hammarlund, N.** 2019. Electronic medical records and medical procedure choice: Evidence from cesarean sections. *Health Economics*, 28(10), 1179-1193.
19. **Hammarlund, N.**, & Natarajan, S. 2017. Does Race Play a Role in Invasive Procedure Treatments? An Initial Analysis. In 2017 International Conference on Connected Health (pp. 243-244). IEEE.

Manuscripts

Basu, A., Hammarlund, N., Khor, S., Bansal, A. 2022. Understanding Algorithmic Discrimination in Health Economics Through the Lens of Measurement Errors. Under Review, *Journal of Health Economics*.

Hammarlund, N., Basu, A. 2022 Post-Selection Inference for Health Economics and Outcomes Research.

Hammarlund, N., Dugan, J., Boosheri, L. 2022. The Role of Differential Care Seeking in Treatment Disparities with Equal Coverage Populations: Evidence from Tricare.

Hammarlund, N., Dugan, J., Boosheri, L., Oddo, V. 2022. The Impact of Involuntary Migration on Health.

Hammarlund, N., Frogner, B. 2022. Predictors of Pain after Spinal Injuries.

Hammarlund, N. 2022. Decomposition of Clinical Cardiac Disparities with Machine Learning.

Conference Presentations

Hammarlund, N., Nyame, Y. N. Drivers of Prostate Cancer Treatment Disparities. Society for Medical Decision Making. Seattle, WA, 2022. Podium.

Hammarlund, N., Nyame, Y. N. The role of place in racial disparities in prostate cancer treatment. AACR Cancer Health Disparities Conference. Philadelphia, PA, 2022. Poster.

Hammarlund, N., Nyame, Y. N. Drivers of Prostate Cancer Treatment Disparities. Academy-Health. Washington DC, 2022. Podium.

Hammarlund, N. Decomposition of Clinical Disparities with Machine Learning. American Society for Health Economics. 2020. Accepted.

Hammarlund, N. 2019. Racial Treatment Disparities after Machine Learning Surgical-Risk Adjustment. American Society of Health Economists, Atlanta, GA, June 2018.

Hammarlund, N. 2019. Racial Treatment Disparities after Machine Learning Surgical-Risk Adjustment. Midwest Economics Conference, Evanston, IL, March 2018.

Hammarlund, N. 2019. Racial Treatment Disparities after Machine Learning Surgical-Risk Adjustment. Poster, Conference on Neural Information Processing Systems (NIPS), Causal Inference and ML Workshop, Long Beach, CA, December 2017.

Freedman, S., & Hammarlund, N. 2019. Electronic Medical Records and Medical Procedure Choice: Evidence from Cesarean Sections. Midwest Economics Association Conference, Evanston, IL, March 2016.

Freedman, S., & Hammarlund, N. 2019. Electronic Medical Records and Medical Procedure Choice: Evidence from Cesarean Sections. Abstract for Presentation, Association for Public Policy and Management Fall Research Conference, Miami, FL, November 2015.

Teaching Experience

University of Florida

Instructor Health Economics, Fall 2023
Guest Lecturer Population Health in Medicine, Spring 2022

[University of Florida](#)

Guest Lecturer Health Informatics & Emerging Healthcare Technologies, Spring 2022
Guest Lecturer Population Health in Medicine, Spring 2022

[University of Washington](#)

Instructor Health Economics, Spring 2020

[Indiana University](#)

Instructor Statistics, Spring 2018

Instructor Health Economics, Fall 2014, Fall 2015, Fall 2016, Spring 2017, Fall 2017

Associate Instructor Management Science, Spring 2016

Mentorship

[University of Florida](#)

2022-present Andrew Cistola - PhD student, Health Services Research
2022-present Ruixuan Wang - PhD student, Health Services Research
2022-present Allison Carrier - PhD student, Health Services Research

[University of Washington](#)

2020 - 2022 Sara Khor, Health Economics
2018 - 2020 Jim Phuong - PhD student, Biomedical Informatics
2019 - 2020 Yao Yan - PhD student, Biomedical Engineering

Professional Service

[University of Florida](#)

2022-present Council Member - Florida Prostate Cancer Advisory Council - Florida Legislature
2022-present Founding Co-Director, UF Artificial Intelligence in Public Health Seminar Series
2022-present Data Integrity and Safety Committee DISC for the Patient-Centered Outcomes Research Institute (PCORI)
2022-present Member, UF Health Cancer Center
2022-present Member, Search Committee
2022-present Member, HSRMP Departmental Seminar Committee

[University of Washington](#)

2019-2022 Founding Trainee-Director, Seminar Planning Committee, UW Artificial Intelligence in Medicine Institute
2019-2022 Founding Trainee-Member, Executive Steering Committee, UW Artificial Intelligence in Medicine Institute
2018-2022 Member and Postdoctoral Mentor, Mooney Group

[Indiana University](#)

2016-2018 Member, Health Policy Teaching Curriculum Planning Committee

[Journal Reviewer](#)

2020-present Health Services and Outcomes Research Methodology
2018-present Journal of the American Medical Informatics Association
2018-present Journal of Clinical and Translational Science

[Professional Society Membership](#)

2018-present	Member, American Association for Cancer Research
2018-present	Member, American Medical Informatics Association
2018-present	Member, Society for Medical Decision Making
2018-present	Member, International Health Economics Association
2017-present	Member, American Economic Association
2016-present	Member, Association for Public Policy Analysis and Management
2016-present	Member, American Society of Health Economists