CHRISTINA A. NGUYEN
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EDUCATION

2019- **MIT Sloan School of Management**, Ph.D. in Technological Innovation, Entrepreneurship, and Strategic Management
Courses: Economics of Innovation/Entrepreneurship/Digitization, Econometrics, Microeconomic Theory, Org Theory

2016 **Harvard University**, A.B. in Sociology (Highest Honors and *Summa* empirical thesis), secondary in Global Health and Health Policy; HBS CORe: Credential of Readiness (Honors) (2016); Graduate Certificate in Data Science (2019)

2014 **University of Cambridge**, Cordeiro Fellowship, Robotics, Behavioral Ecology, and Health IT (First-class Honours)

RESEARCH EXPERIENCE

2016- **HealthCare Markets & Regulation Lab, Dept of Health Care Policy, Harvard Medical School**, Sr Research Analyst (07/18-), Research Analyst (05/17-06/18), Research Assistant II (08/16-04/17), Michael Chernew, Mary Beth Landrum

2014-15 **Institute for Quantitative Social Science**, Research Scholar and Research Assistant, Michèle Lamont

2014 **Dept of Medicine, Massachusetts General Hospital**, Researcher, Katrina Armstrong

2013 **Leonard Davis Institute of Health Economics (LDI), University of Pennsylvania**, Research Scholar, Scott Halpern

2012-13 **National Economic Council, The White House**, Intern, Gene Sperling, Michael Shapiro, Jessica Schumer

SELECTED HONORS, FELLOWSHIPS, AND GRANTS

2020- National Science Foundation Graduate Research Fellowship ($138,000)

2019- MIT Presidential Fellowship ($85,721), selected by MIT President and Provost

2019- MIT Sloan Doctoral Fellowship (~$465,000)

2018 Poster Walk Presentation, selected by AcademyHealth as among most significant and thought-provoking

2015 Quincy House Coat of Arms, Harvard College, for stand-out character and leadership to community

2015 Harvard College Research Program Grant ($1,000), to support travel for 3 single-author presentations

2015 New Venture Competition Semi-finalist (Co-lead, Global E-Medical Archive), Harvard Business School

2014 Elected Class Leader (1 of 20), Harvard College and Harvard Alumni Association

2014 Cordeiro Research Fellowship ($3,000) (clinical informatics, advisor: Warner Slack), Harvard College

2014 David Rockefeller International Experience Grant ($8,200), Harvard College, full scholarship

SELECTED PUBLICATIONS

1. Auriemma CL, **Nguyen CA**, Bronheim R, Kent S, Nadigu S, Pardo D, Halpern SD. Stability of End-of-Life Preferences: A Systematic Review of the Evidence. JAMA Internal Medicine. 2014; 174(7):1085-1092.
2. **Nguyen CA**, Shih JA, Lin KV, Aladesanmi OA. Targeting National Emergency Department Overuse: A Case for Primary Care, Financial Incentives, and Community Awareness. Harvard Health Policy Review. 2014; 14(1):23-26.
3. Auriemma CL, Chen L, Olorunnisola M, Delman A, **Nguyen CA**, Cooney E, Gabler NB, Halpern SD. Public opinion regarding financial incentives to engage in advance care planning. American Journal of Hospice and Palliative Care. 2017; 34(8):721-728.
4. McDowell A, **Nguyen CA**, Chernew ME, Tran KN, McWilliams JM, Landon BE, Landrum MB. Comparison of Approaches for Aggregating Quality Measures in Population-based Payment Models. Health Services Research. 2018; 53(6):4477-4490.
5. **Nguyen CA**, Gilstrap LG, Chernew ME, McWilliams JM, Landon BE, Landrum MB. Social Risk Adjustment of Quality Measures for Diabetes and Cardiovascular Disease in a Commercially-Insured US Population. JAMA Network Open. 2019; 2(3):e190838.
6. Gilstrap LG, Chernew ME, **Nguyen CA**, Alam S, Bai B, McWilliams JM, Landon BE, Landrum MB. Association Between Clinical Practice Group Adherence to Quality Measures and Adverse Outcomes. JAMA Network Open. 2019; 2(8):e199139.
7. Landrum MB, **Nguyen C**, O'Rourke E, Jung M, Amin T, Chernew M. Measurement Systems: A Framework for Next Generation Measurement of Quality in Health Care. National Quality Forum White Paper. 2019.
8. **Nguyen CA**, Chernew ME, Ostrer I, Beaulieu ND. Comparison of Healthcare Delivery Systems in Low- and High-Income Communities. The American Journal of Accountable Care. 2019; 7(4):11-18. Lead article.
9. **Nguyen CA**, Gilstrap LG, Chernew ME, McWilliams JM, Landon BE, Landrum MB. Identifying Low-Quality Physician Groups Based on Consistency Across Quality Domains and Years. Under review.
10. **Nguyen CA**, Chernew ME, McWilliams JM, Landon BE, Landrum MB. Can Machine Learning Reduce the Burden of Quality Measurement? Working paper.
11. **Nguyen CA**, Beaulieu ND, Wright A, Keating NL, Landrum MB. Cancer Care Delivery Systems. Working paper.
12. **Nguyen CA**, Beaulieu ND, Ghosh K, Keating NL, Chernew ME, Cutler D, Landrum MB, Wright AA. Variation and Consistency of End-of-Life Measures for Cancer Care in Health Care Systems. Working paper.

SELECTED PRESENTATIONS

2020: International Conference on Health Policy Statistics; **2019**: Leonard Davis Institute of Health Economics, AcademyHealth, Women in Data Science, HMS Health Policy Coder's Corner; **2018**: Dana-Farber Cancer Center, NBER, AcademyHealth, HHS Agency for Healthcare Research and Quality; **2017**: AcademyHealth; **2016**: AcademyHealth; **2015**: Eastern Sociological Society

SERVICE AND SKILLS

Reviewer: American Journal of Managed Care, Journal of Health Care for the Poor & Underserved, Journal of Palliative Medicine.
Active Member: American Statistical Association, AcademyHealth.
Leadership: LDI Cohort Co-Captain (2018-19); Harvard College Alumni Marshal (2017-); Harvard Elected Class Leader (2014-).
Teaching: Python Programming (2017-18); Statistics and Research Tutor (2012-15); Stanford Summer School Advisor (2012).
Skills: Python, Stata, R, Java, LaTeX, R Markdown, Azure ML, NVivo, Bloomberg. ML, web scraping, simulation, data mining.

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As a college sophomore in spring 2013, I had the opportunity to work in the White House National Economic Council for 6 months. The White House exposed me not only to pressing issues in the economy and how policymakers thought about those issues, but also to the ways automation could change how organizations operated, made decisions, and influenced privacy and data protection laws. We are in an increasingly experimental age in which corporate powerhouses leverage AI to simplify complex tasks, increase efficiency, and reduce costs. I see opportunity, using big data and novel databases, to answer questions that could inform business and policy decisions that simultaneously regulate innovation and improve customer experience, particularly in health care.

For the past four years, I have been able to work in the Department of Health Care Policy at Harvard Medical School and to use large datasets to study ways to improve the infrastructure and quality of care for patients. My work has spanned the creation of a database that allows us to analyze local delivery systems for low- and high-income communities nationally and the development of rigorous statistical approaches to risk adjust and aggregate quality measures. When motivated by the burden of quality measurement, I built machine learning algorithms that minimize the data collection required to identify low-quality providers.

I have spent several years in data science, understanding and using it as a tool. I want to expand my research to study the implementation, diffusion, and use of AI in organizations, and its impact on both patients and the health care market. For example, when Google invested in AI for health care, how did hospitals, insurance companies, and patients respond? With growing AI in health care, medical technologies, and health data, the set of topics and methods that can be used to study important management questions is expanding. I am interested in them all (and when to apply them). I am excited about the opportunity to learn from leading scholars and discussions in the field through this NBER workshop.