

**The Faculty of Medicine of Harvard University  
Curriculum Vitae**

**Date Prepared:** October 25, 2021  
**Name:** Zirui Song  
**Office Address:** Department of Health Care Policy  
Harvard Medical School  
180A Longwood Avenue  
Boston, MA 02115  
**Phone:** 617-432-3430  
**Fax:** 617-432-0173  
**E-mail:** song@hcp.med.harvard.edu

**Education:**

9/2002–5/2006	B.A. with General and Departmental Honors	Major: Public Health Studies Minor: Economics	Johns Hopkins University
8/2006–5/2014	M.D., Magna Cum Laude	Medicine	Harvard Medical School
8/2008–5/2012	Ph.D.	Health Policy Economics concentration	Harvard University

**Postdoctoral Training:**

6/2014–6/2015	Internship	Internal Medicine, Primary Care	Massachusetts General Hospital
6/2015–6/2017	Residency	Internal Medicine, Primary Care	Massachusetts General Hospital

**Clinical and Research Fellowships:**

6/2010–5/2012	Pre-Doctoral Fellow	Fellowship in Aging and Health Economics	National Bureau of Economic Research
6/2012–5/2013	Post-Doctoral Fellow	Fellowship in Aging and Health Economics	National Bureau of Economic Research
6/2014–6/2017	Clinical Fellow	Medicine	Harvard Medical School

**Faculty Academic Appointments:**

7/2017–	Assistant Professor	Health Care Policy	Harvard Medical School
7/2018–	Assistant Professor	Medicine	Harvard Medical School
9/2021–	Associate Professor	Health Care Policy	Harvard Medical School

**Appointments at Hospitals/Affiliated Institutions:**

8/2017–5/2020	Assistant in Medicine	Medicine (DGIM)	Massachusetts General Hospital
5/2020–	Assistant Physician	Medicine (DGIM)	Massachusetts General Hospital

**Other Professional Positions:**

2004–2006	Intern (2004-05), Special Guest (2005-06) Center on Social and Economic Dynamics	The Brookings Institution, Washington, DC
2005–2006	Clinical Research Fellow, Department of Medicine	Union Memorial Hospital, Baltimore, MD
2015	Analyst/Advisor, Medicare Advantage payment policy Office of Health Policy, Office of the Assistant Secretary for Planning and Evaluation (Jul-Aug)	U.S. Department of Health and Human Services
2015–2016	Visiting Fellow, Accountable Care, Health Policy Commission	Commonwealth of Massachusetts
2016	Visiting Scholar, Dartmouth Institute for Health Policy and Clinical Practice (Aug-Sep)	Geisel School of Medicine, Dartmouth College
2016	Visiting Scholar, Leonard Davis Institute of Health Economics and Department of Medical Ethics and Health Policy (Oct-Nov)	Perelman School of Medicine, University of Pennsylvania
2017–	Faculty Affiliate, Center for Primary Care	Harvard Medical School

### **Administrative Leadership Positions:**

#### **Local**

2003–2005	Founder and Editor-in-Chief, Epidemic Proportions: Johns Hopkins Undergraduate Public Health Journal	Johns Hopkins University
2005–2006	President, Alpha Epsilon Delta: Johns Hopkins Pre- Medical Honor Society	Johns Hopkins University
2008–2012	Resident Tutor, Pre-Medicine Committee	Cabot House, Harvard College
2010–2011	Co-President, Harvard University Student Chapter	AcademyHealth
2013–2014	Co-Chair, Student Leadership Committee	Center for Primary Care, Harvard Medical School
2018–	Co-Director, Evidence, Insight and Strategy for Optimizing Health Benefits Course	Harvard Medical School Office for External Education
2018–	Co-Director, Mass General Brigham Centers of Expertise Health Policy Course	Mass General Brigham
2021–	Co-Director, Essentials of the Profession (EOP) 1— Health Policy Course	Harvard Medical School
2021–	Director, Health Policy Concentration, Internal Medicine Residency Program	Department of Medicine, Massachusetts General Hospital

### **Committee Service:**

#### **Local**

2011–2014	Student Steering Committee, MD-PhD Program	Harvard Medical School
2014–2015	Community Advisory Board, Center for Primary Care	Harvard Medical School
2015–2016	Leadership Council, The Family Van	Harvard Medical School
2015–2017	Representative of the Department of Medicine, Trainee Quality and Safety Committee (2-year term)	Massachusetts General Hospital

2016–2017	Resident Co-Leader, Department of Medicine Resident Quality and Safety Committee	Massachusetts General Hospital
2016–2017	Resident Co-Leader, Department of Medicine Resident Leadership Curriculum	Massachusetts General Hospital
2017–	Committee on Higher Degrees in Health Policy	Harvard University
2018–2019	Finance Committee, Internal Medicine Associates	Massachusetts General Hospital
2018–	Standing Committee on Health Policy	Ph.D. Program in Health Policy Harvard University
2021–	Diversity, Equity, and Inclusion Scholarship and Research Committee	Harvard Medical School

### **Regional**

2009–2012	Committee on Publications	Massachusetts Medical Society
2010–2012	Task Force on Health Care Reform	Massachusetts Medical Society
2010–2015	Boston Advisory Board	Albert Schweitzer Fellowship

### **National**

2015	Technical Expert Panel: “Improving Medicare Advantage Benchmarks,” Office of the Assistant Secretary for Planning and Evaluation	U.S. Department of Health and Human Services
2016	Payment Transformation Blue Ribbon Panel	Hawaii Medical Service Association
2020	Technical Expert Panel	Health Care Cost Institute
2020–2021	Co-chair, Scientific Abstract Committee	Society of General Internal Medicine
2021	Technical Expert Panel	American Board of Family Medicine
2021–2022	Chair, Scientific Abstract Committee	Society of General Internal Medicine
2021–	Transforming Health Care to Create Whole Health: Strategies to Assess, Scale, and Spread the Whole Person Approach to Health	National Academies of Sciences, Engineering, and Medicine

### **Professional Societies:**

2008–	Massachusetts Medical Society
2009–	American Society of Health Economists
2011–	AcademyHealth
2014–2015	American College of Physicians
2014–	Society of General Internal Medicine
2018–	American Economic Association

### **Grant Review Activities:**

2016	NIA-S: Standing Committee on Behavioral and Social Science of Aging (Ad hoc Grant Reviewer)	National Institute on Aging, National Institutes of Health
2018	Scientific review panel (Ad hoc Grant Reviewer)	National Institute on Aging,

**Other Review Activities:**

2014	Abstract Reviewer, Annual Research Meeting	AcademyHealth
2015–2016	Student Poster Abstract Committee	AcademyHealth
2019	Abstract Reviewer, 25th Annual National Research Service Award (NRSA) Trainees Research Conference	Agency for Healthcare Research and Quality (AHRQ)
2021	Medicare Payment Advisory Commission Report	MedPAC

**Editorial Activities:****Ad hoc Reviewer**

Academic Medicine  
 American Economic Review  
 American Journal of Epidemiology  
 American Journal of Managed Care  
 Annals of Internal Medicine  
 British Medical Journal  
 Circulation  
 Circulation: Cardiovascular Quality and Outcomes  
 Forum for Health Economics & Policy  
 Health Affairs  
 Health Economics  
 Health Services and Outcomes Research Methodology  
 Health Services Research  
 Healthcare  
 Inquiry  
 International Journal of Health Care Finance and Economics  
 JAMA Internal Medicine  
 JAMA Health Forum  
 Journal of Clinical Oncology  
 Journal of General Internal Medicine  
 Journal of Health Economics  
 Journal of Human Resources  
 Journal of Public Economics  
 Journal of the American Medical Association  
 Lancet Public Health  
 Management Science  
 Medical Care Research and Review  
 Milbank Quarterly  
 New England Journal of Medicine  
 PLOS Medicine  
 Psychiatric Services

**Other Editorial Roles**

2013–2017	Editor, Payment Reform	Healthcare
2013–2018	Associate Editor	Healthcare
2017–2018	Guest Editor	Inquiry (Special Collection on Medicare Advantage)
2017–	Editorial Board	PLOS Medicine

## Honors and Awards:

2002–2006	Woodrow Wilson Research Fellowship	Johns Hopkins University
2005	Finalist, Rhodes Scholarship	District XV, United States
2005–2006	Suzy Bacon Fellowship (Honorary)	Johns Hopkins University
2006	Outstanding Achievement in Public Health	Johns Hopkins University
2007	Edward Hickling Bradford Research Fellowship	Harvard Medical School
2007	PASTEUR Research Fellowship	Harvard Medical School
2009–2011	Certificate of Distinction in Teaching 2009: Advanced Topics in Health Policy (GOV 1597) 2010: Advanced Topics in Health Policy (GOV 1597) 2011: Advanced Topics in Global Health and Health Policy (GHHP 99)	Harvard University
2010	Top 10 Papers Published in 2010	Health Affairs
2010–2011	Excellence in Tutorial Facilitation Award 2010: Introduction to Health Care Policy (HC.750) 2011: Introduction to Health Care Policy (HC.750)	Harvard Medical School
2011	Best Abstract, Most Outstanding Abstract, “Health Reform Implementation” category	AcademyHealth Annual Research Meeting, Seattle
2011	First place, Health Policy/Medical Education Sixth Annual Research Poster Symposium	Massachusetts Medical Society
2011	Honorable Mention Award, Innovations Conference	Center for Primary Care Harvard Medical School
2012	Best Abstract, Most Outstanding Abstract, “Delivery System Innovations” category	AcademyHealth Annual Research Meeting, Orlando
2012	Finalist, 18th Annual Health Care Research Award	National Institute for Health Care Management Foundation
2012	Joan P. Curhan Citizenship Award	Harvard University
2013	Article-of-the-Year Award	AcademyHealth
2014	Honors in a Special Field (Magna): Health Economics and Health Policy	Committee on Awards & Honors Harvard Medical School
2014	Rose Seegal Prize (“Best research paper on the relation of the medical profession to the community”)	Faculty of Medicine Harvard Medical School
2014	Best Abstract Award (Residents) 12th Annual Celebration of Clinical Research	Department of Medicine, Massachusetts General Hospital
2014	Daniel Ford Award (“Achievement in health services and outcomes research”), General Internal Medicine Housestaff Research Awards	Division of General Internal Medicine, Johns Hopkins Medicine
2014	First Place, Oral Presentation Resident Research Category	Massachusetts Chapter, American College of Physicians
2015	National Winner, “High Value Care” category Resident/Fellow Research Poster Competition	Internal Medicine 2015, American College of Physicians

2015	Morton N. Swartz, M.D. Humanism in Medicine Award Selected by peers for “Joy in the practice of medicine and kindness to others”	Department of Medicine, Massachusetts General Hospital
2015	Hospital-Wide Individual Research Award	Massachusetts General Hospital
2016	Mack Lipkin Sr. Associate Member Scientific Presentation Award	Society of General Internal Medicine
2016	Seema S. Sonnad Emerging Leader in Managed Care Research Award	The American Journal of Managed Care
2017	Award for Excellence in Clinician Investigation	Society of General Internal Medicine, New England Region
2018	Most-Shared Health Affairs Articles of 2017	Health Affairs
2018	HCUP Outstanding Article of the Year – Honorable Mention	AHRQ and AcademyHealth
2018	Ten Influential Studies in Health Services Research	National Academy of Medicine
2019	Milton W. Hamolsky Jr. Faculty Scientific Presentation Award	Society of General Internal Medicine
2019	Bernie J. O'Brien New Investigator Award	International Society for Pharmacoeconomics and Outcomes Research
2019	Best Abstract, “Payment and Delivery System Innovations” category	AcademyHealth Annual Research Meeting, Washington
2020	Outstanding Reviewer in 2019	Health Services Research
2020	Outstanding Junior Investigator of the Year	Society of General Internal Medicine
2020	NIHCM Foundation Health Care Research Award	National Institute for Health Care Management Foundation
2020	Best Abstracts, “Addressing Consumer and Patients’ Preferences and Needs” category and “Payment and Delivery Systems Innovations” category	AcademyHealth Annual Research Meeting

## **Report of Funded and Unfunded Projects**

### **Past**

2011–2014	Provider Payment Reform and Implications for Health Care Costs National Institute on Aging (F30 AG039175) Principal Investigator
2014–2016	Impact of Payment Reform on Physician Referrals, Patient Flows and Health Care Costs National Institute for Health Care Management Foundation Co-investigator (PI: Bruce Landon)
2014–2017	“The Impact of Employee Wellness Programs: A Randomized Controlled Trial” Jameel Poverty Action Lab – North America Co-investigator (PI: Katherine Baicker)
2015–2018	“The Impact of Employee Wellness Programs: A Randomized Controlled Trial” Robert Wood Johnson Foundation (72611) Co-Project Director (with Katherine Baicker)

2017–2020 HealthCare Markets and Regulation Lab, Harvard Medical School  
Laura and John Arnold Foundation  
Co-investigator (PI: Michael Chernew)

2016–2021 “The Impact of Employee Wellness Programs”  
NIH/National Institute on Aging (R01 AG050329)  
Principal Investigator 2018–2021 (Katherine Baicker 2016–2018)

### **Current**

2017–2022 “Inequities in Health Outcomes in the Twenty-First Century: Understanding New Causes and the Impact of Delivery System Reforms on Health Care Disparities”  
Office of the Director, National Institutes of Health (DP5 OD 024564)  
Principal Investigator (NIH Director's Early Independence Award)

2020-2021 “Measuring the Clinical and Economic Outcomes Associated with Delivery Systems”  
Agency for Healthcare Research and Quality via NBER (U19HS024072, supplement)  
Co-investigator (PI: David Cutler)

2020–2023 HealthCare Markets and Regulation Lab, Harvard Medical School  
Laura and John Arnold Foundation (Grant ID: 20-04402)  
Principal Investigator of Subproject (PI: Michael Chernew)

2021– “Private Equity Acquisitions of Physician Medical Practices and Implications for Practice Patterns and Costs of Care,” National Institute for Health Care Management Foundation  
Co-investigator (PI: Jane Zhu)

2021– “Improving Medicare in an Era of Change”  
NIH/National Institute on Aging (P01 AG032952)  
Co-Investigator (PI: McWilliams/Landon)

### **Training Grants and Mentored Trainee Grants**

2008–2009 Harvard University Ph.D. Program in Health Policy Training Grant  
Agency for Healthcare Research and Quality (T32 HS000055)  
Trainee (PI: Joseph Newhouse)

2009–2010 Harvard Medical School/Harvard University Walker Grant  
Harvard University PhD Program in Health Policy  
Trainee (PI: Joseph Newhouse)

2010–2011 Pre-doctoral Fellowship in Aging and Health Economics  
National Institute on Aging via NBER (T32 AG000186)  
Pre-doctoral Fellow (PI: David Wise)

### **Report of Local Teaching and Training**

#### **Teaching of Students in Courses:**

2009–2010	Advanced Topics in Health Policy Co-Instructor, undergraduates	Harvard College 1-2 2-hour classes/week, 13 weeks
2011 Spring	Advanced Topics in Global Health and Health Policy, Co-Instructor, undergraduates	Harvard College 1 2-hour class/week, 13 weeks
2009–2015	Introduction to Health Care Policy, medical and dental medicine students 2009–2011: Head Teaching Fellow 2009–2010, 2014: Tutorial leader 2011–2015: Guest lecturer	Harvard Medical School and Harvard School of Dental Medicine 3 1-hour classes/week, 4 weeks 1 2-hour lecture/year

2015 Aug	Economics for Health Policy, Guest lecturer, Master's degree students	Harvard T.H. Chan School of Public Health, 2-hour lecture
2016 Nov	Health Care Management & Strategy, Guest lecturer, undergraduate students	Wharton School, Univ of Pennsylvania 1.5-hour lecture
2016 Fall	Health Care Systems, Guest lecturer, undergraduate students	Wharton School, Univ of Pennsylvania 2 1.5-hour lectures
2017–	Research in Health Economics, Guest lecturer, doctoral students	Harvard Kennedy School 1.5-hour lecture per year
2018 Aug	Economics for Health Policy, Guest lecturer, Master's degree students	Harvard T.H. Chan School of Public Health, 2-hour lecture
2018–	Evidence, Insight and Strategy for Optimizing Health Benefits, U.S. employers	Harvard Medical School Office for External Education, 3 days per year
2018–	MIT HMS Healthcare Innovation Bootcamp (students from 30+ countries), Guest lecturer	MIT and Harvard Medical School, 1-2 hour lecture per year
2018–	Core Course in Health Policy, Guest lecturer and Quality section leader (2020), doctoral students	Harvard University 1 to 2 2-hour lectures per year
2019–	Essentials of the Profession 1—Health Policy, Tutorial leader, medical and dental medicine students	Harvard Medical School and Harvard School of Dental Medicine 2 hours per week, 4 weeks per year
2019 Nov	U.S. Healthcare Industry and Regulatory Policy, Guest lecturer, graduate students	Harvard Kennedy School 1-hour lecture
2020–	Health Care Quality in America, Guest lecturer, Undergraduate students	Harvard College 1-hour lecture per year
2020–	Essentials of the Profession 2—Health Policy, Guest lecturer, medical and dental students	Harvard Medical School 2 1-hour lectures per year
2020–	Economics of Health Care—Public vs. Market Solutions, Guest lecturer	Harvard T.H. Chan School of Public Health, 1-hour lecture per year
2020–	HealthTech Fellowship Bootcamp, Guest lecturer	Harvard Medical School, 1-2 hour lecture per year
2020 July	MD-PhD Summer Course for entering students, Guest lecturer	Harvard Medical School 2 1-hour classes
2020 Nov	Confronting COVID-19: Future of Healthcare Policy and Healthcare Delivery, Guest lecturer	Harvard College 1-hour panel discussion

**Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):**

2015–	Department of Medicine Noon Conference on health policy, residents (PGY 1-3) and faculty	Massachusetts General Hospital 1-2 1-hour lectures per year
2015–2016	Department of Medicine Ambulatory Care Curriculum, residents (PGY 2-3)	Massachusetts General Hospital 4 1-hour lectures
2017–	Mass General Brigham Centers of Expertise Health Policy Course, residents and fellows across specialties (PGY 1-9)	Mass General Brigham, Boston, MA 1 week per year, 3-5 hours of lecture and discussion per year
2017 Mar	“Current Issues in Health Policy,” Department of Psychiatry, residents (PGY 3-4)	McLean Hospital 1-hour lecture



2017–	Department of Psychiatry Community Psychiatry Curriculum, residents (PGY 1-4)	Massachusetts General Hospital 2-5 hours of lectures per year
2017–	Department of Medicine Global Medicine Curriculum, interns (PGY 1)	Massachusetts General Hospital 1-hour lecture per year
2018–	Department of Psychiatry Child Psychiatry Fellowship Journal Club	Massachusetts General Hospital 1-hour lecture (seminar) per year
2019–	Department of Medicine Management Leadership curriculum, residents (PGY 1-3)	Brigham and Women’s Hospital 1-hour lecture per year
2020–	MGH/McLean Adult Psychiatry Residency noon conferences	Massachusetts General Hospital 1-2.5 hours per year
2021–	Health Policy Course, Department of Medicine Health Policy Concentration	Massachusetts General Hospital 4 3-hour sessions per year

**Clinical Supervisory and Training Responsibilities:**

2018–	Inpatient attending physician on the Bigelow house staff teaching service	Massachusetts General Hospital 4 weeks per year
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**Laboratory and Other Research Supervisory and Training Responsibilities:**

2017–	Supervision of doctoral student research and training, Harvard Medical School	2 hour meetings per month and 1:1 supervision 2 hours per month
2017–	Supervision of research assistants training and protocol, Harvard Medical School	1 hour meeting per week and 1:1 supervision 1 hour per week
2018–2019	Supervision of summer students research and training, Harvard Medical School	1 hour meeting per week and 1:1 supervision 1 hour per week

**Formally Mentored Harvard Medical, Dental, and Graduate Students:**

2017–	Suhas Gondi, M.D./M.B.A. candidate, Harvard Medical School and Harvard Business School; Foster Scholar in Health Policy, Advocacy, and Media, Stoeckle Center for Primary Care Innovation, Massachusetts General Hospital <ul style="list-style-type: none"> <li>• Mentoring role: research advisor and collaborator</li> <li>• Papers: <a href="#">Health Affairs Blog</a> (2019), <a href="#">JAMA</a> (2019, 2019), <a href="#">AJMC</a> (2019), <a href="#">JAMA IM</a> (2020), <a href="#">JAMA Health Forum</a> (2021, 2021)</li> </ul>
2018–	Yunan Ji, Ph.D. candidate in Health Policy, Harvard University <ul style="list-style-type: none"> <li>• Mentoring role: research advisor and collaborator</li> <li>• Paper: <a href="#">NEJM</a> (2019)</li> </ul>
2018–	Mubeen Shakir, M.Sc., M.D. (2019), Harvard Medical School <ul style="list-style-type: none"> <li>• Mentoring role: research advisor for HMS scholarly project (thesis) “Differences in Health and Health Care between Rural and Urban America,” which was awarded the HMS Leon Eisenberg Prize for Medicine in Society Research (2019)</li> </ul>
2018–	Joseph Bruch, Ph.D. (2021), Harvard School of Public Health <ul style="list-style-type: none"> <li>• Mentoring role: chair, dissertation committee</li> </ul>

- Papers: JAMA Internal Medicine (2020, 2020), Annals of Internal Medicine (2020), JAMA Health Forum (2021), American Journal of Public Health (2021)

2018– Jason Buxbaum, Ph.D. candidate in Health Policy, Harvard University  
 • Mentoring role: research advisor

2019– Shivani Shah, M.D. candidate, Harvard Medical School  
 • Mentoring role: research advisor  
 • Papers: JAMA Health Forum (2020), JGIM (2021)

2020– Garret Johnson, M.D. (2021), Harvard Medical School  
 • Mentoring role: HMS scholarly project mentor

**Other Mentored Trainees and Faculty:**

2013–2017 Andrew P. Loehrer, M.D., M.P.H.  
 Assistant Professor of Surgery, Geisel School of Medicine, Dartmouth; formerly Clinical Fellow in Complex General Surgical Oncology, MD Anderson Cancer Center; David Torchiana Fellow in Health Policy & Management, MGH  
 • Mentoring role: research advisor and collaborator  
 • Papers: JAMA Surgery (2013, 2017), Annals of Surgery (2015, 2016), Journal of the American College of Surgeons (2015), Journal of Clinical Oncology (2016), and Journal of Oncology Practice (2017)

2014–2015 John W. Scott, M.D., M.P.H.  
 Assistant Professor, University of Michigan; formerly Fellow, Harborview Medical Center; Henry Ellis Warren Research Fellow, Center for Surgery and Public Health, BWH; Brigham and Women’s Hospital and Harvard Medical School  
 • Mentoring role: research advisor and collaborator  
 • Papers: Health Affairs (2015), Journal of the American College of Surgeons (2015)

2018 Summer Carol Tao, B.A. candidate, New York University  
 • Mentoring role: research advisor

2018 Summer William Tian, M.D. candidate, University of Illinois College of Medicine  
 • Mentoring role: research advisor

2018–2019 Cian P. McCarthy, M.B., B.Ch., B.A.O.  
 Internal Medicine resident, Massachusetts General Hospital  
 • Mentoring role: research advisor and collaborator  
 • Papers: Journal of the American College of Cardiology (2018), Circulation (2018)

2018–2019 Arielle Elmaleh-Sachs, M.D.  
 Internal Medicine resident, Massachusetts General Hospital  
 • Mentoring role: research advisor

2018– Sneha Kannan, M.D.  
 Internal Medicine resident, Pulm/Crit Care fellow, Massachusetts General Hospital  
 • Mentoring role: research advisor and collaborator  
 • 1 manuscript under peer review

2018– Samuel J. Enumah, M.D.

General Surgery resident, Brigham and Women's Hospital; Association for Academic Surgery/Association for Academic Surgery Foundation Trainee Research Fellow in Clinical Outcomes, Education & Health Services; Harvard T-32 Trainee

- Mentoring role: research advisor and collaborator
- 1 manuscript under peer review

2018– Nicole Benson, M.D.  
Fellow in Child and Adolescent Psychiatry, Massachusetts General Hospital

- Mentoring role: research advisor and collaborator
- Papers: JGIM (2020), Health Affairs (2020), JGIM (2021)

2018– Thomas Roberts, M.D., M.B.A.  
Internal Medicine resident (MGH), Oncology fellow, Dana Farber Cancer Institute

- Mentoring role: research advisor and collaborator
- 1 manuscript under peer review

2019 Summer Neeti Kulkarni, B.A. candidate, Brandeis University

- Mentoring role: research advisor and collaborator

2019– Lindsey J. Patterson, Ph.D.  
Marshall J. Seidman Fellow, Harvard Medical School

- Mentoring role: research advisor and collaborator
- 1 manuscript under peer review

### **Report of Local Invited Presentations:**

#### ***No presentations below were sponsored by outside entities***

4/2006 "Smoking and Obesity: The Public Health Crises of Our Generation"  
Woodrow Wilson Fellowship Ceremony, Johns Hopkins University, Baltimore, MD

7/2012 "Next Steps in Health Care Reform: Transitioning to Accountable Care"  
Principal Clinical Experience Intersession, Harvard Medical School, Boston, MA

7/2012 "Early Experience with Accountable Care in Massachusetts"  
Meet the Expert Seminar Series, Harvard School of Public Health, Boston, MA

9/2013 "Clinical Decision-Making and Health Care Spending"  
MD-PhD/LHB Grand Rounds, Harvard Medical School, Boston, MA

10/2013 "Improving the Value of American Health Care: Policy Options"  
31th Annual Retreat, MD-PhD Program, Harvard Medical School, Boston, MA

10/2015 "Health Care Spending and Quality Under Global Payment," Netherlands Delegation,  
Harvard T.H. Chan School of Public Health, Boston, MA

12/2013 "Slowing the Growth of Health Care Spending"  
Health Policy Seminar, Tufts Medical Center, Boston, MA

2/2016 "Strategies for Slowing Health Care Spending,"  
Harvard T.H. Chan School of Public Health, Boston, MA

10/2016 "Strategies to Slow the Growth of Health Care Spending"  
Department of Health Care Policy, Harvard Medical School, Boston, MA

10/2016 "Strategies to Slow Health Care Spending," Division of General Internal Medicine,  
Massachusetts General Hospital, Boston, MA

- 2/2017 "Health Care and the Affordable Care Act after the Election," Department of Psychiatry, Massachusetts General Hospital, Boston, MA
- 5/2017 "The Changing Mortality and Composition of Opioid-Related Hospitalizations Versus Other Hospitalizations in the United States," Division of General Internal Medicine Medical Rounds Conference, Massachusetts General Hospital, Boston, MA
- 9/2017 "The Impact of Workplace Wellness Programs on Health and Economic Outcomes," Harvard School of Public Health, Boston, MA
- 10/2017 "Health Care Policy in 2020," Primary Care in 2020 Conference, Center for Primary Care, Harvard Medical School, Boston, MA
- 2/2018 "Policies to Address Health Care Spending and Value," Health Policy and Insurance Research Seminar, Department of Population Medicine, Harvard Medical School and Harvard Pilgrim Health Care Institute, Boston, MA
- 3/2018 "Fixing Prices or Price Fixing? Physician Responses to New Payments for Heart Disease Treatments," HCP Health Economics Seminar, Harvard Medical School, Boston, MA
- 5/2018 "A Guide to Research in Health Policy," Medical Directors' Meeting, Population Health Management, Partners Healthcare, Boston, MA
- 6/2018 "The Impact of Changes in Medicare Physician and Hospital Outpatient Fees," Division of General Internal Medicine, Massachusetts General Hospital, Boston, MA
- 7/2018 "The Impact of Medicare PCI Fee Changes on Provider Behavior," Smith Center for Outcomes Research in Cardiology, Beth Israel Deaconess Medical Center, Boston, MA
- 9/2018 "Meet the Investigator" Seminar, MD-PhD Program, Harvard Medical School, Boston, MA
- 10/2018 "Impact of Workplace Wellness on Health and Economic Outcomes: A Randomized Controlled Trial," HCP Health Economics Seminar, Harvard Medical School, Boston, MA
- 4/2019 "The Impact of Changes in Medicare Prices for PCI," Cath Conference, Massachusetts General Hospital, Boston, MA
- 4/2019 "Changes in Economic and Clinical Outcomes Under CMS Mandatory Bundled Payments for Joint Replacements," Division of General Internal Medicine, Massachusetts General Hospital, Boston, MA
- 5/2019 "Impact of Workplace Wellness on Health and Economic Outcomes: A Randomized Controlled Trial," Division of General Internal Medicine Medical Rounds Conference, Massachusetts General Hospital, Boston, MA
- 6/2019 "Health Care: An Endangered Species?" Alumni Day Symposium, Harvard Medical School
- 6/2019 "Policy Options to Address Health Care Spending," Center for Primary Care, Harvard Medical School, Boston, MA
- 9/2019 "Health Care Spending and Quality 8 Years into Global Payment," Healthcare Markets & Regulations Lab Industry Working Group Summit, Harvard Medical School, Boston, MA
- 11/2019 "Improving the Value of Health Care," 45th Anniversary Reunion and Celebration Harvard/MIT Medical Scientist Training Program, Harvard Medical School, Boston, MA

**Report of Regional, National, and International Invited Teaching and Presentations**

***No presentations below were sponsored by outside entities***

**Regional**

- 10/2009 "Health Care Reform and the Social Sciences," 27th Annual Student Faculty Retreat, MD-PhD Program, Harvard Medical School, Waterville Valley, NH

- 3/2011 "Health Care Reform," Boston University School of Medicine, Boston, MA
- 8/2011 "Effect of the AQC on Health Care Spending and Quality"  
Massachusetts Health Care Quality and Cost Council, Boston, MA
- 1/2012 "A Primer on Health Care Reform," Albert Schweitzer Fellowship,  
Boston Fellows Meeting, Boston, MA
- 2/2012 "Changing Paradigms in Healthcare: What Does the Future Hold?"  
Massachusetts Medical Society Physician Leadership Institute, Boston, MA
- 4/2012 "Year-2 Evaluation of the Alternative Quality Contract"  
The Dartmouth Institute for Health Policy and Clinical Practice, Lebanon, NH
- 6/2013 "The Return-on-Investment of Wellness: Evidence and Policy"  
New England Employee Benefits Council, Waltham, MA
- 12/2013 "Slowing the Growth of Health Care Spending"  
Health Policy Seminar, Tufts Medical Center, Boston, MA
- 4/2014 "Payment Reform in Massachusetts: Early Evidence on Spending and Quality,"  
Dartmouth Symposium in Health Care Delivery Science, Hanover, NH
- 7/2014 "Program Evaluation and ROI: Evidence and Policy"  
Best Practices in Worksite Wellness Conference, Braintree, MA
- 11/2014 "Health Care Spending and Quality 4 Years into Global Payment for ACOs" (selected  
abstract), American College of Physicians Annual Scientific Meeting, Waltham, MA
- 3/2015 "Medicare Fee Cuts and Physician-Hospital Integration" (selected abstract),  
New England Society of General Internal Medicine (SGIM) Regional Meeting, Boston, MA
- 4/2015 "The Emergence of Worksite Wellness in Health Policy"  
The Business of Worksite Wellness and Nutrition Conference, Rockland, MA
- 10/2015 "Evaluations of Public and Private Strategies for Improving the Value of Health Care  
Spending," Health Policy Commission, Boston, MA
- 3/2016 "Changes in Quality and Spending for High versus Low Socioeconomic Status Populations  
Under Global Payment" (selected abstract), New England Society of General Internal  
Medicine (SGIM) Meeting, New Haven, CT (Plenary speaker)
- 4/2016 "Improving the Evidence Base on Worksite Wellness"  
Third Annual Emerging Trends in Wellness Conference, Randolph, MA
- 5/2016 "Mortality Among Opioid-Related vs. Other Hospitalizations in the U.S.," Health Policy  
Commission, Boston, MA.
- 3/2017 "Mortality and Composition of Opioid Hospitalizations in the United States" (selected  
abstract), New England Society of General Internal Medicine (SGIM) Meeting, Boston, MA
- 4/2017 "Changes in Quality of Care and Medical Spending for High versus Low Socioeconomic  
Status Populations under Global Payment," Health Policy Commission, Boston, MA
- 4/2017 "An Update on the Evidence Base for Workplace Wellness," Fourth Annual Emerging  
Trends in Wellness Conference, Randolph, MA
- 3/2018 "Policies to Address Health Care Spending," Health Policy Seminar, Institute for Clinical  
Research and Health Policy Studies, Tufts Medical Center, Boston, MA
- 4/2018 "Impact of Workplace Wellness on Health and Economic Outcomes," Fifth Annual  
Emerging Trends in Wellness Conference, Randolph, MA
- 2/2019 "Current State of Health Care Policy in the United States," Whitney Center, Hamden, CT

- 2/2019 "ACOs in Massachusetts: the AQC Experience," MassHealth, Executive Office of Health and Human Services, Commonwealth of Massachusetts
- 3/2019 "Physician Scientists and the Health Care Economy," (Clinical and Population Health Keynote), University of Massachusetts Medical School, MD/PhD Program | Medical Scientist Training Program, 14th Annual Physician-Scientist Retreat, Worcester, MA
- 1/2021 "Peer Effects and Health Care Consumption: Evidence from Spousal Health Shocks," Columbia University Mailman School of Public Health (virtual)
- 3/2021 "Payment for Primary Care," Health Care Delivery Transformation Conference, Healthcare Financial Management Association, Massachusetts-Rhode Island Chapter (virtual)

**National**

- 12/2005 "Undergraduate public health education: Role of the student-run publication" (selected abstract), American Public Health Association Meeting, Philadelphia, PA
- 11/2009 "The Albert Schweitzer Fellowship," PRI-MED Conference, Boston, MA
- 6/2010 "Using the Dartmouth Atlas" (selected abstract), AcademyHealth Annual Research Meeting, Boston, MA
- 8/2010 "Health Care Reform 2010: Policies and Objectives," Carolinas Medical Center, Concord, NC
- 10/2010 "Health Care Reform 2010: Policies and Objectives," 4th Annual Albert Schweitzer Fellowship Conference, Baltimore, MD
- 6/2011 "Effect of the AQC on Health Care Spending and Quality" (selected abstract), 17th Annual National Research Service Award (NRSA) Trainees Research Conference, Seattle WA
- 6/2011 "The Effect of Global Payment in Accountable Care Organizations on Health Care Costs" (selected abstract), AcademyHealth Annual Research Meeting, Seattle, WA
- 10/2011 "Health Care Reform and its Implications," 5th Annual Albert Schweitzer Fellowship Conference, Boston, MA
- 11/2011 "Effect of the AQC on Health Care Spending and Quality" (selected abstract), Gerontological Society of America, 64th Annual Meeting, Boston, MA
- 1/2012 "Effect of the AQC on Health Care Spending and Quality" (selected abstract), American Economic Association/Allied Social Science Associations, Chicago, IL
- 6/2012 "Year-2 Evaluation of the Alternative Quality Contract" (selected abstract), 18th Annual National Research Service Award (NRSA) Trainees Research Conference, Orlando, FL
- 6/2012 "Year-2 Evaluation of the Alternative Quality Contract" (selected abstract), Health Economics Interest Group, AcademyHealth Annual Research Meeting, Orlando, FL
- 6/2012 "Unintended Consequences of Redistributing Income from Specialists to Primary Care Physicians in Medicare" (selected abstract), AcademyHealth Annual Research Meeting, Orlando, FL
- 6/2012 "Effect of the Alternative Quality Contract on Health Care Spending and Quality: Year-2 Results" (selected abstract), AcademyHealth Annual Research Meeting, Orlando, FL
- 6/2013 "Year-2 Evaluation of the Alternative Quality Contract" (Article-of-the-Year session), AcademyHealth Annual Research Meeting, Baltimore, MD
- 2/2014 "Slowing the Growth of Health Care Spending: Evaluations of Current Policy Approaches," Institute for Healthcare Policy and Innovation (IHPI), Department of Medicine, University of Michigan, Ann Arbor, MI

- 4/2014 “Conducting ROI Analysis,” Health Care Innovations Exchange: Virtual Roundtable on Return on Investment, Agency for Healthcare Research and Quality (AHRQ)
- 4/2014 “Payment Reform in Massachusetts: Effect of Global Payment on Health Care Spending and Quality 4 Years into the Alternative Quality Contract” (selected abstract), Society of General Internal Medicine (SGIM) 37th Annual Meeting, San Diego, CA
- 11/2014 “Health Care Spending and Quality 4 Years into Global Payment for ACOs,” Grand Rounds, Division of General Internal Medicine, Johns Hopkins Medicine, Baltimore, MD
- 6/2015 “Medicare Fee Cuts and Physician-Hospital Integration” (selected abstract), AcademyHealth Annual Research Meeting, Minneapolis, MN
- 12/2015 “Evaluating Strategies for Improving the Value of Health Care Spending” Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- 5/2016 “Changes in Quality of Care and Medical Spending for High versus Low Socioeconomic Status Populations under Global Payment” (selected abstract), Society of General Internal Medicine (SGIM) 2016 Annual Meeting, Hollywood, FL (Plenary)
- 6/2016 “Policy Rationale and Implications of Payment Reform,” Risk-based Contracting—Preparing for the Inevitable session American Diabetes Association 76th Scientific Sessions, New Orleans, LA
- 7/2016 “Leadership in the Field of Medicine” (keynote), National Youth Leadership Forum on Medicine, Wellesley, MA
- 9/2016 “Competitive Bidding in Medicare Advantage,” Congressional Budget Office, Panel of Health Advisors, Washington, DC
- 11/2016 “Frameworks in Health Policy and Health Economics,” The MedX Program University of Pennsylvania, Philadelphia, PA
- 11/2016 “Strategies for Slowing Health Care Spending: Implications for Health Systems,” Innovation Speaker Series, Center for Health Care Innovation, UPenn Health System
- 11/2016 “Implications of the Election for Health Care Reform,” Penn HealthX, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- 11/2016 “Medicare Financing Reform after the Election,” Division of General Internal Medicine, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
- 2/2017 “Mobile Health and Wellness: Return-on-Investment,” Expert Series: Mobile Health Clinics—Meeting Your Employees Where They Are. Health Resources in Action Webinar.
- 4/2017 “The Changing Mortality and Composition of Opioid-Related Hospitalizations Versus Other Hospitalizations in the United States” (selected abstract), Society of General Internal Medicine (SGIM) 2017 Annual Meeting, Washington, DC
- 4/2017 “Medicare Advantage Benchmarks, Bids, and Rebates Before and After the Affordable Care Act” (selected abstract), Society of General Internal Medicine (SGIM) 2017 Annual Meeting, Washington, DC
- 6/2017 “Mortality and Composition of Opioid Hospitalizations in the United States” (selected abstract), AcademyHealth Annual Research Meeting, New Orleans, LA
- 7/2017 “Making Positive Change Through Medicine and Health Care” (Keynote), National Youth Leadership Forum on Medicine, Wellesley, MA
- 4/2018 “Health Care Spending and Quality 8 Years into Global Payment” (selected abstract), Society of General Internal Medicine (SGIM) 2018 Annual Meeting, Denver, CO

- 6/2018 “Payments to Medicare Advantage Plans and Plan Generosity Before and After the Affordable Care Act” (selected abstract), 7<sup>th</sup> Conference of the American Society of Health Economists (ASHEcon), Atlanta, GA
- 6/2018 Discussant for “Vertical Integration and a Changing Physician Workforce” (by Neprash H, Chernew ME, McWilliams JM), 7<sup>th</sup> Conference of the American Society of Health Economists (ASHEcon), Atlanta, GA
- 6/2018 “The Impact of Workplace Wellness on Health, Health Care, and Employment Outcomes: A Randomized Controlled Trial” (selected abstract), 7<sup>th</sup> Conference of the American Society of Health Economists (ASHEcon), Atlanta, GA
- 6/2018 Discussant for “Did Medicare Advantage Payment Cuts Affect Beneficiary Access to Care?” (by Skopec L, Zuckerman S, Aarons J), 7<sup>th</sup> Conference of the American Society of Health Economists (ASHEcon), Atlanta, GA
- 6/2018 “Changes in Health Care Spending and Quality 8 Years into Global Payment” (selected abstract), AcademyHealth Annual Research Meeting, Seattle, WA
- 7/2018 “Making Positive Change Through Medicine and Health Care” (Keynote), National Youth Leadership Forum on Medicine, Wellesley, MA
- 5/2019 “Putting Patients First” (Panelist), The State of Care: Future of Medicare, The Atlantic, Washington, DC
- 5/2019 “Impact of Workplace Wellness on Health and Economic Outcomes: A Randomized Controlled Trial” (selected abstract), Society of General Internal Medicine (SGIM) 2019 Annual Meeting, Washington, DC (Plenary)
- 5/2019 “Changes in Economic and Clinical Outcomes Under CMS Mandatory Bundled Payments for Joint Replacements” (selected abstract), Society of General Internal Medicine (SGIM) 2019 Annual Meeting, Washington, DC (Hamolsky Award Finalists)
- 6/2019 “Changes in Economic and Clinical Outcomes Associated with CMS Mandatory Bundled Payments for Joint Replacements” (selected abstract), AcademyHealth Annual Research Meeting, Washington, DC
- 6/2019 “Spending on out-of-Network Care in the United States, 2008-2016” (selected abstract), AcademyHealth Annual Research Meeting, Washington, DC
- 6/2019 “Health Care Spending and Quality 8 Years into Global Payment” (selected abstract), 8<sup>th</sup> Conference of the American Society of Health Economists (ASHEcon), Washington, DC
- 6/2019 “The Impact of Fee Changes on Provider Behavior: Evidence from Asymmetric Changes in Professional and Facility Fees for Heart Disease Treatments” (selected abstract), 8<sup>th</sup> Conference of the American Society of Health Economists (ASHEcon), Washington, DC
- 7/2019 “Making Positive Change Through Medicine and Health Care” (Keynote), National Youth Leadership Forum on Medicine, Boston, MA
- 9/2019 “Improving the Evidence Base to Inform Health Policy,” NCCIH at 20: A Catalyst for Integrative Health Research, National Institutes of Health, Bethesda, MD
- 10/2019 “Navigating Mixed Payments: What is the Argument to Increase Primary Care Spend?” 2019 Primary Care Conference, Boston, MA
- 7/2020 “Social Learning and Health Care Utilization: Evidence from Spousal Health Shocks” (selected abstract), AcademyHealth Annual Research Meeting (virtual live plenary and virtual pre-recorded session due to Covid-19)
- 7/2020 “Changes in Prescription Drug Spending and Utilization 8 Years into Global Payment” (selected abstract), AcademyHealth Annual Research Meeting (virtual due to Covid-19)



- 12/2020 “Peer Effects and Health Care Consumption: Evidence from Spousal Health Shocks” (selected abstract), Fifth Annual Population Health Science Research Workshop (virtual)
- 3/2021 “Overview of Insurance Markets and Reimbursement for Care,” American Psychiatric Association Annual Meeting (virtual)
- 6/2021 “Hospitalizations, Mortality, and Racial/Ethnic Disparities in the COVID-19 Pandemic,” (selected abstract), COVID-19 and Health Outcomes, Spring 2021 conference, National Bureau of Economic Research (virtual)
- 6/2021 “Peer Effects and Health Care Consumption: Evidence from Spousal Health Shocks,” (selected abstract), 10<sup>th</sup> Annual Conference of the American Society of Health Economists (ASHEcon) (virtual)
- 6/2021 Discussant for “Private Equity, Consumers, and Competition: Evidence from the Nursing Home Industry” (by Gandhi A, et al.), 10<sup>th</sup> Annual Conference of the American Society of Health Economists (ASHEcon) (virtual)
- 6/2021 Discussant for “The Role of Improvement and Consolidation in Medicare Advantage Quality Ratings” (by Sen A, et al.), 10<sup>th</sup> Annual Conference of the American Society of Health Economists (ASHEcon) (virtual)
- 6/2021 “Effect of Traditional Medicare and Medicare Advantage on Spending, Use, and Price: Evidence from Transitions from Commercial Insurance at the Age-65 Discontinuity” (selected abstract), 10<sup>th</sup> Annual Conference of the American Society of Health Economists (ASHEcon) (virtual)
- 7/2021 “What Works in Wellness?” (Panelist), 36th Annual National MD-PhD Student Conference, University of Colorado Anschutz Medical Campus (virtual)
- 7/2021 “Peer Effects and Health Care Consumption: Evidence from Spousal Health Shocks,” (selected abstract), National Bureau of Economic Research Summer Institute (virtual)
- 9/2021 “Primary Care and Behavioral Health Investment for Maine,” Maine Medical Association and Joint Committee On Health Coverage, Insurance and Financial Services (virtual)
- 10/2021 “Low Value Care Measures and Physician-Level Variations,” Industry Working Group Summit, Health Care Markets and Regulation Lab, Harvard Medical School (virtual)
- 10/2021 “Improving the Value of Care: A Policy Landscape,” Department of Medicine Grand Rounds, Memorial Sloan Kettering Cancer Center (virtual)

**International**

- 7/2011 “The Effect of Global Payment in ACOs on Health Care Costs” (selected abstract) International Health Economics Association (iHEA), Toronto, Canada
- 5/2018 “Paying for Value: From Theory to Practice,” in Funding for Value session (chair), Shifting to Value-Based Health Care conference, International Consortium for Health Outcomes Measurement and University of Paris, Palais d’Iéna, Siège du Conseil économique, social et environnemental, Paris, France
- 12/2019 “Transparency in Incentives: Outcome-Based Payments,” EIT Health Summit 2019, European Institute of Innovation & Technology, European Union, Paris, France (Plenary)
- 3/2021 “Health Policy in the United States” (invited lecture), Chair of Innovation and Value in Health, University of Paris (virtual)
- 6/2021 “Incentivising wellness in the workplace: a randomized controlled trial” (invited lecture), Food Matters Live 2021, United Kingdom (virtual)

## **Report of Clinical Activities and Innovations**

### **Current Licensure and Certification:**

2014–2017 Commonwealth of Massachusetts, Board of Registration in Medicine, Limited License  
2017– Commonwealth of Massachusetts, Board of Registration in Medicine, Active License  
2019– Board Certification, American Board of Internal Medicine

### **Practice Activities:**

2017–	Primary care practice	Massachusetts General Hospital, Internal Medicine Associates	2 sessions per week
2017–	Inpatient attending (Bigelow teaching service)	Massachusetts General Hospital, Department of Medicine	2-4 weeks per year

## **Report of Education of Patients and Service to the Community**

### **Education of Patients and Service to the Community:**

2006–2008 Mentor, Harvard Manville Mentoring Program  
The Manville School, Judge Baker Children’s Center, Boston, MA  
Served as a big brother mentor at the school, 2 hours per week.

2007–2008 Boston Fellow, Albert Schweitzer Fellowship  
Helped establish an after-school physical activity and nutrition program for at-risk youth with colleagues at the Brookside Community Health Center, Jamaica Plain, MA. 200 service hours.

2008–2012 Resident Tutor, Cabot House, Harvard College  
Primary service: Pre-Medicine Committee (advising pre-medical students, writing committee letters for medical schools, and holding mock interviews).  
Secondary service: tutoring in economics, organic chemistry, and careers.

2013–2014 Copy editor (pro bono), Goroll AH, Mulley AG, eds. “Primary Care Medicine: Office Evaluation and Management of the Adult Patient, 7th Edition.” Lippincott Williams & Wilkins and Wolters Kluwer, 2014.

2017 Feb Expert for online resident Q&A forum, New England Journal of Medicine Resident 360, in public group discussion “From Volume to Value: Understanding the Impact of ACOs and New Care Models in Healthcare.”

2017 Sep Introduction and moderator, “Alternative Models at the State and Federal Levels,” *It Depends What State You’re In: Policies and Politics of the US Health Care System*, Radcliffe Institute for Advanced Study, Harvard University

2017 Nov Participant, Data Science Rountable, “Key Factors for Scientific Impact on Policy,” Harvard Data Science Initiative and Elsevier

2019 Mar Health Policy career paths program, Office of Career Services, Faculty of Arts and Sciences, Harvard University

2019 Mar “Care at the End of Life: Toward a Roadmap for Plans” (Lecture), International Foundation of Employee Benefit Plans, St. Petersburg, FL

2019 Apr “Wellness Wednesday: Workplace Wellness” (Podcast), All Sides with Ann Fisher, 89.7 National Public Radio News, WOSU, Ohio

- 2019 Apr ["Do workplace wellness programmes work?"](#) (Guest), Early Edition, Newstalk ZB, New Zealand
- 2019 Apr ["Do workplace wellness programs work?"](#) (Guest), Health Report, ABC Radio National, Sydney, Australia
- 2019 May "Impact of Workplace Wellness on Health and Economic Outcomes" (Webinar), Health Enhancement Research Organization
- 2019 May "Impact of Workplace Wellness on Health and Economic Outcomes" (Webinar), WELCOA and National Wellness Institute
- 2019 Dec Participant, "Implementation and De-implementation Methodologies for Complementary and Integrative Health Approaches" meeting, National Center for Complementary and Integrative Health, National Institutes of Health
- 2020 Jun Preliminary data posted for state policymakers: "Economic and Clinical Impact of COVID-19 on Provider Practices in Massachusetts: Interim Results: May 20 – June 17, 2020." Health Policy Commission, Commonwealth of Massachusetts

## Recognition

- |      |                                       |                 |
|------|---------------------------------------|-----------------|
| 2009 | Top Doctor (Boston Medical Students)  | Boston Magazine |
| 2014 | 30 Under 30 in Science and Healthcare | Forbes Magazine |

## Research Citations and Coverage:

### Research Cited in Government Testimony or Policy

- Testimony of David M. Cutler, PhD, Committee on the Budget, U.S. Senate (2/29/2012)
- Testimony of Dana Gelb Safran, ScD, Committee on Finance, U.S. Senate (6/14/2012)
- Department of Health and Human Services, *Federal Register* Vol 77, No 179 (9/14/2012)
- Testimony of David Blumenthal, MD, MPP, Special Committee on Aging, U.S. Senate (2/27/2013)
- Testimony of Leemore S. Dafny, PhD, Committee on the Judiciary, U.S. Senate (9/22/2015)
- Testimony of Andrew Kolodny, MD, Committee on Homeland Security and Governmental Affairs, U.S. Senate (1/17/2018)
- Testimony of Matthew Fiedler, PhD, Committee on Finance, U.S. Senate (5/8/2019)
- Testimony for H4134 - An Act to improve health care by investing in VALUE, Joint Committee on Health Care Financing, Commonwealth of Massachusetts (1/28/2020)

### Research Covered by Newspaper or News Articles

- New York Times* (9/30/2012; 1/4/2013; 1/5/2015; 1/20/2015; 4/16/2019; 9/9/2019; 10/7/2019)
- Washington Post* (4/15/2011; 1/24/2012; 4/30/2012; 7/12/2012)
- Wall Street Journal* (10/1/2019)
- Los Angeles Times* (12/12/2012; 4/19/2019; 5/13/2019)
- US News & World Report* (10/30/2014; 5/6/2016; 4/16/2019)
- PBS Newshour* (12/4/2017)
- NPR* (4/16/2019)
- CNBC* (12/4/2017; 4/16/2019)
- Boston Globe* (10/29/2014; 11/11/2014; 1/9/2017; 12/5/2017; 7/18/2019)
- WBUR CommonHealth* (7/11/2012; 1/10/2017; 4/16/2019; 7/18/2019)
- Other U.S. outlets: *CNN Business, Kaiser Health News, MinnPost, Reuters, San Diego Union-Tribune, Seattle Times*
- International outlets: *CBC News (Canada), Deutsches Ärzteblatt (Germany), The Irish Times, Medical Tribune (Germany), Sciences et Avenir (France)*

### Research Covered in Other Outlets

- American Journal of Managed Care Newsroom, American Prospect, Axios, Becker's Hospital Review, The British Medical Journal, The Business Journals, Business Wire, CFO Magazine,*

*Connecticut Public Radio, Enterprise Echo, FactCheck.org, FierceHealthcare, Forbes, Fortune Magazine, Harvard Business Review, Harvard Gazette, Healthcare Finance News, Healthcare IT News, HealthDay, HealthExec, HealthLeaders Media, The Heritage Foundation, The Hill, The Incidental Economist, Medical Economics, Modern Healthcare, News Wise, People Management, Psychology Today, Retail Wire, ScienceDaily, Tech Times, The Verge, Vice Media, Yahoo News*

## **Report of Scholarship**

### **Peer-Reviewed Scholarship in Print or Other Media:**

1. **Song Z**, Reinhardt K, Buzdon M, Liao P. "Association between support group attendance and weight loss after Roux-en-Y gastric bypass." Surgery for Obesity and Related Diseases. 2008 Mar-Apr;4(2):100-103.
2. Baicker K, Cutler D, **Song Z**. "Workplace wellness programs can generate savings." Health Affairs. 2010 Feb;29(2):304-311.
3. **Song Z**, Safran DG, Landon BE, He Y, Ellis RP, Mechanic RE, Day MP, Chernew ME. "Health care spending and quality in year 1 of the Alternative Quality Contract." New England Journal of Medicine. 2011 Sep 8;365(10):909-918.
4. Barnett ML, **Song Z**, Landon BE. "Trends in physician referrals in the United States, 1999-2009." Archives of Internal Medicine. 2012 Jan 23;172(2):163-170.
5. **Song Z**, Landon BE. "Controlling health care spending—the Massachusetts experiment." New England Journal of Medicine. 2012 Apr 26;366(17):1560-1561.
6. McWilliams JM, **Song Z**. "Implications for ACOs of variations in spending growth." New England Journal of Medicine. 2012 May 10;366(19):e29(1-3).
7. **Song Z**, Safran DG, Landon BE, Landrum MB, He Y, Mechanic RE, Day MP, Chernew ME. "The 'Alternative Quality Contract,' based on a global budget, lowered medical spending and improved quality." Health Affairs. 2012 Aug;31(8):1885-1894.
8. **Song Z**, Cutler DM, Chernew ME. "Potential consequences of reforming Medicare into a competitive bidding system." Journal of the American Medical Association. 2012 Aug 1;308(5):459-460.
9. **Song Z**, Landrum MB, Chernew ME. "Competitive bidding in Medicare: who benefits from competition?" American Journal of Managed Care. 2012 Sep;18(9):546-552.
10. **Song Z**, Lee TH. "The era of delivery system reform begins." Journal of the American Medical Association. 2013 Jan 2;309(1):35-36.
11. **Song Z**, Hill C, Bennet J, Vavasis A, Oriol NE. "Mobile clinic in Massachusetts associated with cost savings from lowering blood pressure and emergency department use." Health Affairs. 2013 Jan;32(1):36-44.
12. **Song Z**, Ayanian JZ, Wallace J, He Y, Gibson TB, Chernew ME. "Unintended consequences of eliminating Medicare payments for consultations." JAMA Internal Medicine. 2013 Jan 14;173(1):15-21.

13. Blumenthal DM, **Song Z**, Jena AB, Ferris TG. "Guidance for structuring team-based incentives in healthcare." American Journal of Managed Care. 2013 Feb 1;19(2):e64-70.
14. **Song Z**, Fendrick AM, Safran DG, Landon B, Chernew ME. "Global budgets and technology-intensive medical services." Healthcare. 2013 Jun;1(1-2):15-21.
15. Sharp AL, **Song Z**, Safran DG, Chernew ME, Fendrick AM. "The effect of bundled payment on emergency department use: Alternative Quality Contract effects after year one." Academic Emergency Medicine. 2013 Sep;20(9):961-964.
16. Loehrer AP<sup>^</sup>, **Song Z**, Auchincloss HG, Hutter MM. "Massachusetts health care reform and reduced racial disparities in minimally invasive surgery." JAMA Surgery. 2013 Dec;148(12):1116-1122.
17. **Song Z**, Landrum MB, Chernew ME. "Competitive bidding in Medicare Advantage: effect of benchmark changes on plan bids." Journal of Health Economics. 2013 Dec;32(6):1301-1312.
18. Chien AT, **Song Z**, Chernew ME, Landon BE, McNeil BJ, Safran DG, Schuster MA. "Two-year impact of the Alternative Quality Contract on pediatric health care quality and spending." Pediatrics. 2014 Jan;133(1):96-104.
19. Afendulis CC, Fendrick AM, **Song Z**, Landon BE, Safran DG, Mechanic RE, Chernew ME. "The impact of global budgets on pharmaceutical spending and utilization: early experience from the Alternative Quality Contract." Inquiry. 2014 Jan 1;51:1-7.
20. **Song Z**. "Accountable care organizations in the U.S. health care system." Journal of Clinical Outcomes Management. 2014 Aug 1;21(8):364-371.
21. **Song Z**, Sequist TD, Barnett ML. "Patient referrals: a linchpin for increasing the value of care." Journal of the American Medical Association. 2014 Aug 13;312(6):597-598.
22. **Song Z**. "Becoming a physician in the age of payment reform." Healthcare. 2014 Sep;2(3):168-169.
23. **Song Z**, Rose S, Safran DG, Landon BE, Day MP, Chernew ME. "Changes in health care spending and quality 4 years into global payment." New England Journal of Medicine. 2014 Oct 30;371(18):1704-1714.
24. Stuart EA, Huskamp HA, Duckworth K, Simmons J, **Song Z**, Chernew M, Barry CL. "Using propensity scores in difference-in-differences models to estimate the effects of a policy change." Health Services and Outcomes Research Methodology. 2014 Dec 1;14(4):166-182.
25. Scott JW<sup>^</sup>, Sommers BD, Tsai TC, Scott KW, Schwartz AL, **Song Z**. "Dependent coverage provision led to uneven insurance gains and unchanged mortality rates in young adult trauma patients." Health Affairs. 2015 Jan;34(1):125-133.
26. **Song Z**, Chokshi DA. "The role of private payers in payment reform." Journal of the American Medical Association. 2015 Jan 6;313(1):25-26.
27. Basu S, Landon BE, **Song Z**, Bitton A, Phillips RS. "Implications of workforce and financing changes for primary care practice utilization, revenue, and cost: a generalizable mathematical model for practice management." Medical Care. 2015 Feb;53(2):125-132.
28. **Song Z**, McMahon LF Jr. "Rethinking physician payment." Journal of General Internal Medicine. 2015 Feb;30(2):152-154.

29. Loehrer AP<sup>^</sup>, **Song Z**, Auchincloss HG, Hutter MM. "Influence of health insurance expansion on disparities in the treatment of acute cholecystitis." Annals of Surgery. 2015 Jul;262(1):139-145.
30. **Song Z**, Wallace J, Neprash HT, McKellar MR, Chernew ME, McWilliams JM. "Medicare fee cuts and cardiologist-hospital integration." JAMA Internal Medicine. 2015 Jul 1;175(7):1229-1231.
31. Scott JW<sup>^</sup>, Salim A, Sommers BD, Tsai TC, Scott KW, **Song Z**. "Racial and regional disparities in the effect of the Affordable Care Act's dependent coverage provision on young adult trauma patients." Journal of the American College of Surgeons. 2015 Aug;221(2):495-501.
32. Perez KM<sup>^</sup>, Flier L, D'Couto H, Rudder M, Thakker A, Weems J, Wibecan L, **Song Z**, Bitton A, Erb J, Pollack S, Silbersweig D, Sullivan L, Frolkis J. "Behavioral health integration in primary care at Brigham and Women's Advanced Primary Care Associates, South Huntington." Healthcare. 2015 Sep;3(3):169-174.
33. Basu S, Phillips RS, Bitton A, **Song Z**, Landon BE. "Medicare chronic care management payments and financial returns to primary care practices: A modeling study." Annals of Internal Medicine. 2015 Oct 20;163(8):580-588.
34. **Song Z**, Chopra V, McMahon LF. "Addressing the primary care workforce crisis." American Journal of Managed Care. 2015;21(8):e452-454.
35. Loehrer AP<sup>^</sup>, Hawkins AT, Auchincloss HG, **Song Z**, Hutter MM, Patel VI. "Impact of expanded insurance coverage on racial disparities in vascular disease: insights from Massachusetts." Annals of Surgery. 2016 Apr;263(4):705-711.
36. Loehrer AP<sup>^</sup>, Chang DC, Hutter MM, **Song Z**, Lillemoe KD, Warshaw AL, Ferrone CR. "Health insurance expansion and treatment of pancreatic cancer: Does increased access lead to improved care?" Journal of the American College of Surgeons. 2015 Dec;221(6):1015-1022.
37. Aung KK<sup>^</sup>, Hill C, Bennet J, **Song Z**, Oriol N. "The emerging business models and value proposition of mobile health clinics." American Journal of Accountable Care. 2015 Dec: 36-40.
38. Barry CL, Stuart EA, Donohue JM, Greenfield SF, Kouri E, Duckworth K, Simmons J, **Song Z**, Mechanic R, Chernew ME, Huskamp HA. "The early impact of the 'Alternative Quality Contract' on mental health service use and spending In Massachusetts." Health Affairs. 2015 Dec;34(12):2077-2085.
39. **Song Z**, Colla CH. "Specialty-based global payment: A new phase in payment reform." Journal of the American Medical Association. 2016 Jun 7;315(21):2271-2272.
40. Wallace J, **Song Z**. "Traditional Medicare versus private insurance: How spending, volume, and price change at age sixty-five." Health Affairs. 2016 May 1;35(5):864-872.
41. Huskamp HA, Greenfield SF, Stuart EA, Donohue JM, Duckworth K, Kouri EM, **Song Z**, Chernew ME, Barry CL. "Effects of global payment and accountable care on tobacco cessation service use: an observational study." Journal of General Internal Medicine. 2016 Oct;31(10):1134-1140.
42. Haas DA, Bozic KJ, DiGioia AM, **Song Z**, Kaplan RS. "Drivers of the variation in prosthetic implant purchase prices for total knee and total hip arthroplasties." Journal of Arthroplasty. 2017 Feb;32(2):347-350.e3.

43. Lauffenburger JC, Gagne JJ, **Song Z**, Brill G, Choudhry NK. "New and unexpected potentially-disruptive life events: what are the immediate impacts on medication-taking behavior? A case-crossover analysis." BMJ Open. 2016 Aug 4;6(8):e010958.
44. **Song Z**. "MACRAeconomics: Physician incentives and behavioral economics in the Medicare Access and CHIP Reauthorization Act." Healthcare. 2016 Sep 27. pii: S2213-0764(16)30099-9.
45. Stuart EA, Barry CL, Donohue JM, Greenfield SF, Duckworth K, **Song Z**, Kouri EM, Ebnesajjad C, Mechanic R, Chernew ME, Huskamp HA. "Effects of accountable care and payment reform on substance use disorder treatment: evidence from the initial 3 years of the Alternative Quality Contract." Addiction. 2017 Jan;112(1):124-133.
46. **Song Z**, Fisher ES. "The ACO experiment in infancy—Looking back and looking forward." Journal of the American Medical Association. 2016 Aug 16;316(7):705-706.
47. Basu S, Phillips RS, **Song Z**, Landon BE, Bitton A. "Effects of new funding models for patient-centered medical homes on primary care practice finances and services: results of a microsimulation model." Annals of Family Medicine. 2016 Sep;14(5):404-414.
48. Loehrer AP<sup>^</sup>, **Song Z**, Haynes AB, Chang DC, Hutter MW, Mullen JT. "The impact of health insurance expansion on the treatment of colorectal cancer." Journal of Clinical Oncology. 2016 Dec;34(34):4110-4115.
49. **Song Z**, Blumenthal DM. "Expanding payment reform in Medicare: The cardiology episode-based payment model." Journal of the American Medical Association. 2016 Nov 15;316(19):1973-1974.
50. **Song Z**, Rose S, Chernew ME, Safran DG. "Lower- versus higher-income populations in the Alternative Quality Contract: Improved quality and similar spending." Health Affairs. 2017 Jan 1;36(1):74-82.
51. Loehrer AP<sup>^</sup>, Murthy SS, **Song Z**, Lubitz CC, James BC. "Association of insurance expansion with surgical management of thyroid cancer." JAMA Surgery. 2017 Aug 1;152(8):734-740.
52. Barnett ML, **Song Z**, Rose S, Bitton A, Chernew ME, Landon BE. "Insurance transitions and changes in physician and emergency department utilization: An observational study." Journal of General Internal Medicine. 2017 Oct;32(10):1146-1155.
53. Navathe AS, **Song Z**, Emanuel EJ. "The next generation of episode-based payments." Journal of the American Medical Association. 2017 Jun 20;317(23):2371-2372.
54. Basu S, Phillips RS, **Song Z**, Bitton A, Landon BE. "High levels of capitation payments needed to shift primary care toward proactive team and nonvisit care." Health Affairs. 2017 Sep 1;36(9):1599-1605.
55. Basu S, Landon BE, Williams JW Jr, Bitton A, **Song Z**, Phillips RS. "Behavioral health integration into primary care: a microsimulation of financial implications for practices." Journal of General Internal Medicine. 2017 Dec;32(12):1330-1341.
56. **Song Z**. "Using Medicare prices—Toward equity and affordability in the ACA marketplace." New England Journal of Medicine. 2017 Dec 14;377(24):2309-2311.
57. **Song Z**. "Mortality quadrupled among opioid-driven hospitalizations, notably within lower-income and disabled white populations." Health Affairs. 2017 Dec;36(12):2054-2061.

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## Thesis:

Song Z. "Financial Incentives in Health Care Reform: Evaluating Payment Reform in Accountable Care Organizations and Competitive Bidding in Medicare." Doctoral Thesis. Ph.D. Program in Health Policy, Harvard University, April 2012.

Doctoral Thesis Committee:

Michael E. Chernew, Ph.D. (Chair)

John Z. Ayanian, M.D., M.P.P.

Thomas G. McGuire, Ph.D.

Joseph P. Newhouse, Ph.D.

## Working Papers in Economics:

"Pricing and Pass-through in Response to Subsidies and Competition: Evidence from Medicare Advantage Before and After the Affordable Care Act" (with Daria Pelech)

Abstract: After years of growth, federal payments to Medicare Advantage plans began to decline after the Affordable Care Act (ACA). We exploit variation in those payments caused by the ACA to assess whether insurers respond symmetrically to payment increases and decreases pre- and post-ACA. We find that plans changed their pricing and pass-through to beneficiaries symmetrically, with plans passing through roughly 60 cents for each dollar of payment increases or decreases. However, plans reduced less salient benefits post-ACA by more than they had increased them pre-ACA, even though they left premiums virtually unchanged. Partial pass-through suggests that plans likely operate above cost; plans in more competitive markets responded less to payment changes than plans in less competitive markets. Partial pass-through of payment cuts, combined with quality bonuses and growth in risk scores, may explain the continued growth in Medicare Advantage enrollment post-ACA.

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