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University of Michigan School of Nursing
University of Michigan Medical School
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Education and Training

Education

09/1996-06/2000 Bachelor of Arts
Chemistry, biochemistry, & molecular biology with honors, *Magna cum laude*
Colby College, Waterville, ME

09/2001-11/2004 Doctor of Chiropractic Care, *Summa cum laude*
New York Chiropractic College, Seneca Falls, NY

07/2007-6/2010 Masters of Public Health
Dartmouth Medical School, Hanover, NH

09/2011-06/2014 PhD, Quantitative Biomedical Sciences
Dartmouth College, Hanover, NH

Certification and Licensure

Certification

06/2004 Diplomate, National Board of Chiropractic Examiners
Certification No. 107180

04/2004 Fellow, International Academy of Medical Acupuncture

Licensure

12/2004-09/2018 Chiropractic Care License, Vermont
No. 006.0001150

Work Experience

Academic Appointments

07/2010-08/2014 Instructor of Health Policy
The Dartmouth Institute for Health Policy and Clinical Practice
Geisel School of Medicine at Dartmouth, Hanover, NH

09/2014-08/2018 Adjunct Assistant Professor of Epidemiology
Department of Epidemiology
Geisel School of Medicine at Dartmouth, Hanover, NH

09/2014-08/2018 Adjunct Assistant Professor of Health Policy
The Dartmouth Institute for Health Policy and Clinical Practice
Geisel School of Medicine at Dartmouth, Hanover, NH

09/2014-08/2018 Assistant Professor of Nursing
University of Michigan School of Nursing, Ann Arbor, MI

09/2018-present Adjunct Associate Professor of Epidemiology
Department of Epidemiology
Geisel School of Medicine at Dartmouth, Hanover, NH

09/2018-07/2019 Adjunct Associate Professor of Health Policy
The Dartmouth Institute for Health Policy and Clinical Practice
Geisel School of Medicine at Dartmouth, Hanover, NH

09/2018-present Associate Professor of Nursing with tenure
University of Michigan School of Nursing, Ann Arbor, MI

09/2019-present Associate Professor of Learning Health Sciences
University of Michigan Medical School, Ann Arbor, MI

Clinic Appointments

11/2004-02/2006 Clinical Associate
Woodcock Chiropractic Clinic, Guilford, VT

02/2006-08/2011 Medical Staff Member
Grace Cottage Hospital, Townshend, VT

Research Interests

I am a health services researcher who has additional training in data science. My research focuses on leveraging large sources of observational data to study important policy-relevant issues. A specific interest of mine is the application of data mining methods to administrative healthcare data.

Grants

<u>Present and Active</u>	<u>Dates & Direct Costs</u>
P30: P30AG066582, Bynum (PI) NIH/National Institute on Aging Title: Center to Accelerate Population Research in Alzheimer's (CAPRA) Role: : Principal Investigator / Project Lead of Research Resources Core	04/2020-03/2025 \$4,332,815
P01: P01AG019783-18, Davis (m-PI) NIH/National Institute on Aging Title: Correlates and Consequences of Making an Alzheimer's Disease Clinical Diagnosis Role: Principal Investigator / Project Leader	03/2017-02/2022 \$620,186
K23: K23AG059890, Bell (PI) NIH/National Institute on Aging Title: Individual and Community Drivers of Hospitalizations for Older Adults After Natural Disaster Role: Co-mentor	7/1/2018-06/2023 \$869,322
R03: R03AG067975, Lee (PI) NIH/National Institute on Aging Title: Evaluation of Treatment Patterns and Prescription Medication use among Older Adults with Late-onset Rheumatoid Arthritis Role: Co-mentor	07/2020-05/2022 \$307,996

T32: T32NR016914, Titler (PI) NIH/National Institute of Nursing Research Title: Complexity Innovations in Promoting Health and Safety Role: Faculty Mentor	07/2017-06/2022 \$1,500,912
K08: K08AG071856, Coe (PI) NIH/National Institute on Aging Title: Improving Medication Use and Outcomes in Older Adults with Dementia after Hospitalization: Effectiveness of Medicare Programs Role: Co-mentor	04/20201-03/2025 \$144,455
<u>Previous Grants</u>	
R01: R01AT009003, Davis (PI) NIH/National Center for Complementary and Integrative Medicine Title: The Availability of Chiropractic Care and Use of Health Services for Back Pain Role: Principal Investigator	12/2015-12/2020 \$994,401
K01: K01AT006162, Davis (PI) NIH/National Center for Complementary and Integrative Medicine Title: The United States Complementary and Alternative Medicine Market *Included subsidy of \$40,000 per year from the Bernard Osher Foundation	08/2010-12/2015 \$853,750*
D43: 43TW009883, Potempa and Barton (Co-PIs) NIH/Fogarty International Center and National Institute of Nursing Research Title: Strengthening Nurse NCD Research and Training Capacity in Thailand Role: Faculty Mentor	06/2014-05/2019 \$1,122,472
Loan Repayment Grant, Davis (PI) NIH/Division of Loan Repayment (reviewed by NCCIM) Title: The US Complementary and Alternative Medicine Market	07/2012-06/2014 \$18,428
Loan Repayment Grant – Competitive Renewal, Davis (PI) NIH/Division of Loan Repayment (reviewed by NCCIM) Title: The US Complementary and Alternative Medicine Market	07/2014-06/2015 \$9,301
Loan Repayment Grant – Competitive Renewal, Davis (PI) NIH/Division of Loan Repayment (reviewed by NCCIM) Title: Effects of Complementary and Alternative Medicine on Use of Medical Services	07/2015-06/2016 \$8,637
Faculty Development Grant, Davis (PI) University of Michigan, Center for Research on Learning and Teaching Title: Development of an Integrative, Hands-on Health Data Analysis Course	12/2016-12/2018 \$10,000
Faculty Research Collaboration Grant, Davis (PI) University of Michigan, Center for Southeast Asian Studies Title: The Geography of Adults with Multiple Chronic Conditions in Thailand	04/2017-04/2018 \$7,000

Honors and Awards

2004	Phi Chi Omega Honor Society
2010	Thesis Commendation Award, The Dartmouth Institute, Hanover, NH Master's Thesis ranked 1 st among 64 graduate students
2010	ACCRAC Outstanding Research Paper "Medicare Part B Claims for Chiropractic Spinal Manipulation, 1998-2004"
2011	ACCRAC Outstanding Research Paper "Immunization Status of Adult Chiropractic Patients: Analyses of the National Health Interview Study"
2012	NIH/National Institute of Environmental Health Sciences Travel Scholarship
2017	Nominated by students for University of Michigan Golden Apple Award for excellence in teaching
2019	Recipient of the University of Michigan School of Nursing <u>Mae Edna Doyle Teacher of the Year Award</u>
2021	Recipient of the <u>University of Michigan Henry Russel Award</u> (considered the highest honor across all schools at the University of Michigan for teaching and research among early-to-mid career faculty)
2021	Nominated by students for University of Michigan Golden Apple Award for excellence in teaching

Memberships in Professional Societies

Institutional

2014-present	Faculty Member, Institute for Healthcare Policy and Innovation, University of Michigan
2015-present	Faculty Member, Michigan Institute for Data Science, University of Michigan
2016-present	Faculty Affiliate, University of Michigan Institute for Social Research, Ann Arbor, MI
2016-2018	Participant, Institute for Healthcare Policy and Innovation and Institute for Social Research Health Economics and Public Policy group, University of Michigan

National and International

2010-2012	Member, American Public Health Association
2010-present	Member, AcademyHealth
2016-2017	Member, International Collaboration on Food with Arsenic and Associated Risk and Regulation, Dartmouth College, Hanover, NH

Editorial Positions, Boards, and Peer-Review Service

Editorial Positions

2014-2017	Consulting Statistical Reviewer, <i>Regional Anesthesia & Pain Medicine</i>
2017-present	<u>Associate Editor-In-Chief for Statistics</u> <i>Regional Anesthesia & Pain Medicine</i> , a BMJ series journal, official publication of the American Society of Regional Anesthesia and Pain Medicine and the European Society of Regional Anesthesia and Pain Therapy (Impact Factor = 7.0)

Peer-Review Service

2008	Ad-hoc Reviewer, <i>American Journal of Public Health</i>
2008-present	Ad-hoc Reviewer, <i>Journal of Alternative and Complementary Medicine</i>
2009-2014	Ad-hoc Reviewer, <i>Health Services Research</i>
2010-present	Ad-hoc Reviewer, <i>Journal of General Internal Medicine</i>
2012-present	Ad-hoc Reviewer, <i>Health Affairs</i>
2013	Ad-hoc Reviewer, <i>British Medical Journal</i>
2015-present	Ad-hoc Reviewer, <i>PLoS ONE</i>

2017 Abstract Reviewer, AcademyHealth Annual Research Conference, theme: Health Workforce

Grant Reviewer

2017 Reviewer: National Institutes of Health Special Emphasis Panel/Scientific Review Group “NIH-DOD-VA Pain Management Collaboratory – Pragmatic Clinical Trials Demonstration Projects UG3/UH3”

2018 Reviewer: National Institutes of Health Special Emphasis Panel ZAT1 VS(09) NIH-NCCIH Training and Research Grants”

2018 Reviewer: National Institutes of Health, National Center for Complementary and Integrative Medicine, Loan Repayment Applications

2019 Reviewer: National Institutes of Health Special Emphasis Panel ZAT1 AJT(10) “NIH-NCCIH Training and Research Grants”

2019 Reviewer: National Institutes of Health, National Center for Complementary and Integrative Medicine, Loan Repayment Applications

2019 Co-chair: National Institutes of Health Special Emphasis Panel/Scientific Review Group ZAT1 JM(02) “HEAL Initiative: Pragmatic and Implementation Studies for the Management of Pain to Reduce Opioid Prescribing (PRISM 1) UG3/UH3”

2019 Chair: National Institutes of Health Special Emphasis Panel/Scientific Review Group ZAT1 JM(03) “HEAL Initiative: Pragmatic Randomized Clinical Trial of Acupuncture for Management of Chronic Low Back Pain in Older Adults (PRISM 2) UG3/UH3”

2020 Reviewer: National Institutes of Health Special Emphasis Panel/Scientific Review Group ZAT1 AJT(18) “HEAL Initiative: Pragmatic and Implementation Studies for the Management of Pain to Reduce Opioid Prescribing (PRISM) UG3/UH3”

2021 Reviewer: National Institutes of Health Special Emphasis Panel ZAT1 PS(02) “NIH-NCCIH Training and Research Grants”

2021 Reviewer: National Institutes of Health, National Center for Complementary and Integrative Medicine, Loan Repayment Applications

Teaching

Institutional Activities

Student Awards

2016 Rackham One Term Dissertation Grant (Kayoung Lee)

2017 Institute for Healthcare Policy and Innovation Health Services Research Summer Student Fellowship (Cui Guo)

2017 Karl Ma Rackham Award (Kayoung Lee)

2017 ProQuest Distinguished Dissertation Award (Jordan Harrison)

2021 Best PhD Student Poster Presentation, University of Michigan School of Nursing (Kathryn Lee)

Didactic Courses

2010 Teaching Assistant, ECS111: “Critical Issues in Health and Health Care”
The Dartmouth Institute, Lebanon, NH

2011 Teaching Assistant, ECS141: “Epidemiology and Biostatistics II”
The Dartmouth Institute, Lebanon, NH

2012 Teaching Assistant, ECS141: “Epidemiology and Biostatistics II”
The Dartmouth Institute, Lebanon, NH

2013 Faculty of Record, ECS141: “Regression and Other Methods”
The Dartmouth Institute, Lebanon, NH

2015 (fall) Faculty of Record, N802: “Epidemiology for Health Professionals”

- 2016 (winter) University of Michigan School of Nursing, Ann Arbor, MI
Faculty of Record, N800: “Statistics for Advanced Practice”
- 2016 (fall) University of Michigan School of Nursing, Ann Arbor, MI
Faculty of Record, N802: “Epidemiology for Health Professionals”
- 2016 (winter) University of Michigan School of Nursing, Ann Arbor, MI
Faculty of Record, “Data User Group”
- 2016 (summer) University of Michigan School of Nursing, Ann Arbor, MI
Co-Instructor, “Analysis of Large US Health Data”
IHPI Clinical Scholars Program (4 sessions, each 180 minutes)
University of Michigan, Ann Arbor, MI
- 2017 (fall) Faculty of Record, HS802: “Epidemiology for Health Professionals”
University of Michigan School of Nursing, Ann Arbor, MI
- 2018 (winter) Faculty of Record, N800: “Statistics for Advanced Practice”
University of Michigan School of Nursing, Ann Arbor, MI
- 2018 (winter) Faculty of Record, HS807: “Management and Analysis of Large US Health Data”
University of Michigan, Ann Arbor, MI
- 2018 (fall) Faculty of Record, N800: “Statistics for Advanced Practice”
University of Michigan School of Nursing, Ann Arbor, MI
- 2018 (fall) Faculty of Record, N802: “Epidemiology for Health Professionals”
University of Michigan School of Nursing, Ann Arbor, MI
- 2019 (winter) Faculty of Record, HS807: “Management and Analysis of Large US Health Data”
University of Michigan, Ann Arbor, MI
- 2019 (fall) Faculty of Record, HS700: “Applied Biostatistics for Clinical Practice”
University of Michigan School of Nursing, Ann Arbor, MI
- 2019 (fall) Faculty of Record, HS802: “Epidemiology for Health Professionals”
University of Michigan School of Nursing, Ann Arbor, MI
- 2020 (fall) Faculty of Record, HS700: “Applied Biostatistics for Clinical Practice”
University of Michigan School of Nursing, Ann Arbor, MI
- 2020 (fall) Faculty of Record, HS807: “Management and Analysis of Large US Health Data”
University of Michigan, Ann Arbor, MI
- 2021 (winter) Faculty of Record, N697 “Independent Study” (2 MHI students)
University of Michigan, Ann Arbor, MI

Intramural Guest Teaching

- 2010 “The Placebo Effect” (60 minutes)
Presented in Inferential Methods and Systematic Review: Part 1 (ECS100)
The Dartmouth Institute, Lebanon, NH
- 2010 “The Design and Visual Display of Data” (60 minutes)
Presented at The Dartmouth Institute Seminar Series
The Dartmouth Institute, Lebanon, NH
- 2010 “Unconventional Health Care in the United States” (90 minutes)
Presented in Critical Issues in Health and Health Care (ECS111)
The Dartmouth Institute, Lebanon, NH
- 2011 “Beyond NHANES: Other National Surveys” (60 minutes)
Presented in Survey Research Methods (ECS122)
The Dartmouth Institute, Lebanon, NH
- 2011 “The Placebo Effect: Friend or Enemy?” (60 minutes)
Presented in Inferential Methods and Systematic Review: Part 1 (ECS100)
The Dartmouth Institute, Lebanon, NH
- 2011 “Unconventional Health Care in the United States” (90 minutes)

Presented in Critical Issues in Health and Health Care (ECS111)
The Dartmouth Institute, Lebanon, NH

2012 “National Health Surveys and the Development of Research Ideas” (60 minutes)
Presented in Survey Research Methods (ECS122)
The Dartmouth Institute, Lebanon, NH

2012 “The United States Complementary and Alternative Medicine Market” (90 minutes)
Presented in Critical Issues in Health and Health Care (ECS111)
The Dartmouth Institute, Lebanon, NH

2013 “National Health Surveys” (60 minutes)
Presented in Survey Research Methods (ECS122)
The Dartmouth Institute, Lebanon, NH

2014 “Introduction to Environmental Epidemiology” (90 minutes)
Presented in Environmental Health Science and Policy (ECS151)
The Dartmouth Institute, Lebanon, NH

2014 “National Health Surveys” (60 minutes)
Presented in Survey Research Methods (ECS122)
The Dartmouth Institute, Lebanon, NH

2015 “National Health Surveys” (60 minutes)
Presented in Survey Research Methods (ECS122)
The Dartmouth Institute, Lebanon, NH

2016 “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)
University of Michigan School of Nursing, Ann Arbor, MI

2017 (winter) “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)
University of Michigan School of Nursing, Ann Arbor, MI

2017 (spring) “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)
University of Michigan School of Nursing, Ann Arbor, MI

2018 (fall) “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)
University of Michigan School of Nursing, Ann Arbor, MI

2019 (winter) “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)
University of Michigan School of Nursing, Ann Arbor, MI

2019 (winter) “Survival Analysis and Cox Proportional Hazards” (120 minutes)
Presented in Scientific Models for Health Sciences: Linear Models (HS852)
University of Michigan School of Nursing, Ann Arbor, MI

2019 (fall) “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)
University of Michigan School of Nursing, Ann Arbor, MI

2020 (winter) “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)
University of Michigan School of Nursing, Ann Arbor, MI

2020 (fall) “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)
University of Michigan School of Nursing, Ann Arbor, MI

2021 (winter) “Survival Analysis and Cox Proportional Hazards” (120 minutes)
Presented in Scientific Models for Health Sciences: Linear Models (HS852)

2021 (winter) “Introduction to Epidemiology” (120 minutes)
Presented in Community Health Nursing (N456)

2021 (winter) University of Michigan School of Nursing, Ann Arbor, MI
“Introduction to Health Data” (120 minutes)
Nurse Executive Fellow Academy
University of Michigan School of Nursing, Ann Arbor, MI

International

2017 Workshop: “Introduction to Using Big Data for Health Research” (2 days)
Presented to Thailand’s Ministry of Public Health, Bangkok, Thailand.

Committee, Organization, and Volunteer Service

2009 Community Outreach: Health Risks of Residing Near an Abandoned Asbestos Mine
Collaborated with Vermont Department of Health epidemiologists to determine the environmental health risks of Vermonters living near the abandoned asbestos mines in Eden and Lowell, Vermont. The project resulted in a white paper report for Vermont health officials and policymakers.

2010 Coordinator: Implementing Continual Quality Improvement at a Rural Primary Care Office
Three-month project in collaboration with Dartmouth faculty, public health graduate students, and staff at Grace Cottage Family Health. The project focused on ways of creating a culture based on quality improvement at the rural primary clinics at Grace Cottage Hospital.
Townshend, VT

2011 Volunteer, Presented “Healthcare Careers Workshop” for the Area Health Education Center’s: Health Careers Institute at Dartmouth summer program for high school students.

2012-2014 Coordinator, Text Mining Research Group, Institute for Quantitative Biomedical Sciences, Dartmouth College, NH

2014-2015 Faculty Search Committee Member: Analytics faculty hire, University of Michigan School of Nursing, Ann Arbor, MI

2014-2017 Coordinator, Department of Systems, Populations, and Leadership Work in Progress forum, University of Michigan School of Nursing, Ann Arbor, MI

2015-2018 Member, Population Health Track Development Committee, Department of Systems, Populations, and Leadership, University of Michigan School of Nursing, Ann Arbor, MI

2016 Faculty Interviewer of MSN and DNP student applicants, University of Michigan School of Nursing, Ann Arbor, MI

2016-2019 Member, University of Michigan School of Nursing Health Analytics Collaboratory, University of Michigan School of Nursing, Ann Arbor, MI

2017-2019 Member, Advisor Board to the Institute for Healthcare Policy and Innovation’s Data Hub, Ann Arbor, MI

2016-2018 Consultant to Thailand Ministry of Public Health
Offered technical advisement regarding large data analysis – national Thai data includes information on approximately 60 million individuals that integrates health survey, clinical, and administrative healthcare data. Bangkok, Thailand

2016-2018 Board Member, Doctor of Nursing Practice Advisory Board, University of Michigan School of Nursing, Ann Arbor, MI

2016-2017 Chair-elect and Voting Member, Curriculum Committee, University of Michigan School of Nursing, Ann Arbor, MI

2017 Faculty Interviewer of DNP student applicants, University of Michigan School of Nursing, Ann Arbor, MI

2017-2018 Member, PhD Curriculum Revision Advisory Board, University of Michigan School of Nursing, Ann Arbor, MI

2017-2018 Chair, Curriculum Committee, University of Michigan School of Nursing, Ann Arbor, MI

- 2018 Coordinator, University of Michigan webinar series on Sources of National Health Data (CDC/NCHS, AHRQ, HRSA, and NCI presenters), Ann Arbor, MI
- 2018-2019 Member, MSN Curriculum Revision Advisory Board, University of Michigan School of Nursing, Ann Arbor, MI
- 2018-2019 Director, Data Management Core
University of Michigan School of Nursing, Ann Arbor, MI
- 2019 Coordinator, University of Michigan webinar series on Sources of National Health Data (CDC/NCHS, AHRQ, HRSA, and NCI presenters), Ann Arbor, MI
- 2019-2020 Member, MSN Digital Curriculum Implementation Committee, University of Michigan School of Nursing, Ann Arbor, MI
- 2019-2020 Member, Health Infrastructures and Learning Systems Graduate Program Committee, Department of Learning Health Sciences, University of Michigan Medical School, Ann Arbor, MI
- 2020 Coordinator, University of Michigan webinar series on Sources of National Health Data (CDC/NCHS, AHRQ, HRSA, and NCI presenters), Ann Arbor, MI
- 2020-present Member, Curriculum Committee, Department of Learning Health Sciences, University of Michigan Medical School, Ann Arbor, MI
- 2020-present Member, University of Michigan School of Nursing Executive Committee, Ann Arbor, MI

Seminars, Visiting Professorships, and Extramural Invited Presentation

Intramural Research Seminars

- 2011 Research Seminar: “The United States Complementary and Alternative Medicine Market”
Presented at the Data and Analytic Core Seminar Series
The Dartmouth Institute, Lebanon, NH
- 2013 Research Seminar: “Mining Facebook Conversations Related to Health and Medicine”
Presented to the Text Mining Research Group, Institute for Quantitative Biomedical Sciences
Dartmouth College, Hanover, NH
- 2014 Research Seminar: “Studying Healthcare from the Intersection of Health Services Research, Epidemiology, and Informatics”
Presented in The Dartmouth Institute Seminar Series
The Dartmouth Institute, Lebanon, NH
- 2016 Research Seminar: “Early Life Exposure to Low-Level Arsenic in US Populations”
Presented in the Child Health Evaluation and Research Seminar Series
University of Michigan, Ann Arbor, MI
- 2016 Research Seminar: “Introduction to Health Services Research”
Presented in Lunch and Learn Seminar Series
University of Michigan School of Nursing, Ann Arbor, MI
- 2016 Research Seminar: “National Health Surveys”
Analytic Methods for Science and Practice Group Seminar Series
University of Michigan School of Nursing, Ann Arbor, MI
- 2017 Research Seminar: “Identifying Patterns in Healthcare Data”
Institute for Healthcare Policy and Innovation Seminar Series
University of Michigan, Ann Arbor, MI
- 2017 Research Seminar: “Using Big Data for Healthcare Research”
Presented at the D43 Seminar Series
University of Michigan School of Nursing, Ann Arbor, MI
- 2019 Research Seminar: “Using Healthcare Data for Prediction and Pattern Identification”
Presented in the T32 Seminar Series
University of Michigan School of Nursing, Ann Arbor, MI

- 2021 Workshop: “Panel Discussion: Strategies for Surviving and Thriving when Working from Home During a Global Pandemic” (1 hour) 2021 Institute for Healthcare Policy and Innovation Junior Faculty workshop, Ann Arbor, MI
- 2021 Research Seminar: “Conducting Health & Healthcare Studies using Large, Pre-existing Data” Presented in the T32 Seminar Series (Interdisciplinary Research Training Center in Cancer Care Delivery)
University of Michigan School of Nursing, Ann Arbor, MI

Extramural Invited Presentations

- 2009 Workshop: “The Supply and Demand of U.S. Chiropractors from 1996 to 2006: Past Trends and Future Ramifications” Presented at the 2009 Association of Chiropractic Colleges and Research Agenda Conference, Las Vegas, NV
- 2010 Podium Presentation: “Utilization and Expenditures on Chiropractic Care in the U.S. from 1997 to 2006” Presented at the 2010 Association of Chiropractic Colleges and Research Agenda Conference, Las Vegas, NV
- 2010 Podium Presentation: “An Analysis of Medicare Part B Claims for Spinal Manipulation, 1998-2004” Presented at the 2010 Association of Chiropractic Colleges and Research Agenda Conference, Las Vegas, NV
- 2011 Podium Presentation: “Regional Variation in the Supply of U.S. Chiropractors” Presented at the 2011 American Public Health Association Annual Meeting, Washington, DC
- 2011 Podium Presentation: “Influenza Vaccination Among Chiropractic Patients and Other Users of Complementary and Alternative Medicine: Are Chiropractic Patients Really Different?” Presented at the 2011 Association of Chiropractic Colleges and Research Agenda Conference, Las Vegas, NV
- 2011 Podium Presentation: “Influenza Vaccination Among Chiropractic Patients in Analyses of National Health Interview Survey” Presented at the 2011 Association of Chiropractic Colleges and Research Agenda Conference, Las Vegas, NV
- 2016 Workshop: “Using Big Data for Healthcare Research” Presented at the International Conference on Non-Communicable Diseases and Global Health, Phuket, Thailand
- 2017 Podium Presentation: “Patterns of Healthcare Spending in the Last Year of Life” 2017 AcademyHealth Annual Research Conference in “Long-term Services Support: Spending and Measurement,” (top 5 of all submissions in general session) New Orleans, LA.
- 2018 Research Seminar: “Mining Health Data for Prediction and Pattern Identification” Presented at the 2018 Big Ten Academic Alliance Nursing Informatics Collaborative Webinar Series.
- 2020 Workshop: “NCCIH Career Development Opportunities: Planning Successful Research Career Transitions” (3 hours) Was to be presented at the 2020 International Congress on Integrative Medicine and Health, Cleveland, OH (*canceled due to COVID pandemic*)
- 2020 Podium Presentation: “Suicide Among U.S. Nurses and Physicians” 2020 AcademyHealth Annual Research Conference in “Examining Health Workforce Contributions and Vulnerabilities”. (*canceled due to COVID pandemic*)
- 2021 Research Seminar: “Differences in the Time to Dementia Diagnosis by Socioeconomic Status: A Retrospective Cohort Study” Presented at the 2021 seminar series for the Causes and Consequences of Variation in Public and Private Payment Rates (Dartmouth College P01).

Bibliography

Peer-Reviewed (*data-based publication, ^ssenior author, underlined denotes student author)

1. Poon T, McIntyre JP, Eller CF, Jones KM, Massello W, Norris CM, Oelrich JA, Pluim TA, Dorigo AE, Davis DJ, **Davis MA**, Izumi HK, Kelley KM, Melamed ML, Poplawski SE, St. Clair JM, Stokes MP, Wheeler WC, Wilkes EE. The preparation of a UV-light absorbing polymer: A project oriented laboratory experiment for introductory organic chemistry curriculum. *Journal of Chemical Education*. 1999;76(11);1523-1524.
2. **Davis MA**, Bove GM. Case Report: A case of pheochromocytoma presenting as low back pain. *Journal of Manipulative and Physiological Therapeutics*. 2007;30(8);598-601. PMID: 17996552, <http://dx.doi.org/10.1016/j.jmpt.2007.06.009>
3. **Davis MA**, Taylor JAM. Case Report: A case of vertebral metastasis with pathologic C2 fracture. *Journal of Manipulative and Physiological Therapeutics*. 2007;30(6);466-471. PMID: 17693338, <http://dx.doi.org/10.1016/j.jmpt.2007.05.001>
4. **Davis MA**, McDevitt L, Alin K. Establishing a chiropractic service in a rural primary health care facility. *Journal of Alternative and Complementary Medicine*. 2007;13(7);697-702. PMID: 17931059, <http://online.liebertpub.com/doi/abs/10.1089/acm.2007.7199>
5. ***Davis MA**, Kononowech RW, Rolin SA, Spierings EL. Acupuncture for tension-type headache: A meta-analysis of randomized controlled trials. *Journal of Pain*. 2008;9(8);667-677. PMID: 18499526, <http://dx.doi.org/10.1016/j.jpain.2008.03.011>
6. **Davis MA**, Bove GM. Review: The chiropractic healer. *Journal of Manipulative and Physiological Therapeutics*. 2008;31(4);323-327. PMID: 18486755, <http://dx.doi.org/10.1016/j.jmpt.2008.03.004>
7. ***Davis MA**. Posterior spinal fusion versus anterior/posterior spinal fusion for adolescent idiopathic scoliosis: A decision analysis. *Spine*. 2009;34(21);2318-2323. PMID: 19934812, <http://dx.doi.org/10.1097/BRS.0b013e3181adb296>
8. ***Davis MA**, Davis AM, Luan JY, Weeks WB. The supply and demand of chiropractors in the United States from 1996 to 2005. *Alternative Therapies in Health and Medicine*. 2009;15(3);36-40. PMID: 19472863
9. **Davis MA**. Review: A perspective on cultivating clinical empathy. *Complementary Therapies in Clinical Practice*. 2009;15(2);76-79. PMID: 19341984, <http://dx.doi.org/10.1016/j.ctcp.2009.01.001>
10. ***Davis MA**, Sirovich BE, Weeks WB. Utilization and expenditures on chiropractic care in the United States from 1997 to 2006. *Health Services Research*. 2010;45(3);748-761. PMID: 20002763, <http://dx.doi.org/10.1111/j.1475-6773.2009.01067.x>
11. *Whedon JM, **Davis MA**^s. Medicare part B claims for chiropractic spinal manipulation. *Journal of Manipulative and Physiological Therapeutics*. 2010;33(8);558-561. PMID: 21036277, <http://dx.doi.org/10.1016/j.jmpt.2010.09.004>
12. Whedon JM, **Davis MA**, Phillips RB. Review: Implications and limitations of appropriateness studies for chiropractic. *Journal of Chiropractic Humanities*. 2010;17(1);40-46. PMID: 22693475, <http://dx.doi.org/10.1016/j.echu.2010.10.001>
13. ***Davis MA**, West AN, Weeks WB, Sirovich BE. Health behaviors and utilization among complementary and alternative medicine users for treatment versus health promotion. *Health Services Research*. 2011;46(5);1402-1416. PMID: 21554272, <http://onlinelibrary.wiley.com/doi/10.1111/j.1475-6773.2011.01270.x/abstract>
14. McDevitt L, **Davis MA**^s. Review: Recognizing the red flags of low back pain. *Nursing Critical Care*. 2011;6;25-29. <http://dx.doi.org/10.1097/01.CCN.0000390625.88962.e5>
15. **Davis MA**, Whedon JM, Weeks WB. Review/Editorial: Complementary and alternative medicine practitioners and accountable care organizations: The train is leaving the station. *Journal of Alternative and Complementary Medicine*. 2011;17(8);669-674. PMID: 21732823, <http://dx.doi.org/10.1089/acm.2011.0364>
16. ***Davis MA**. An examination of complementary and alternative medicine journals in the Journal Citation Reports. *Alternative Therapies in Health and Medicine*. 2011;17(5);38-42. PMID: 22314675

17. ***Davis MA**, Smith MM, Weeks WB. Influenza vaccination among chiropractic patients and other users of complementary and alternative medicine: Are chiropractic patients really different? *Preventive Medicine*. 2012;54(1);5-8. PMID: 21296107, <http://dx.doi.org/10.1016/j.ypmed.2011.01.007>
18. ***Davis MA**, Weeks WB. The concentration of out-of-pocket expenditures on complementary and alternative medicine services in the United States. *Alternative Therapies in Health and Medicine*. 2012;18(5):36-42. PMID: 22894889
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Non-Peer Reviewed

69. Whedon JM, Bove GM, **Davis MA**^s. Letter to the editor: Deaths after chiropractic: A review of published cases. *The International Journal of Clinical Practice*. 2010;65;105. PMID: 21155948, <http://dx.doi.org/10.1111/j.1742-1241.2010.02559.x>

Lay Articles

1. The Vermont Observer (newspaper in Vermont), bimonthly health column from 2005 to 2007
2. The Brattleboro Reformer (newspaper in Vermont), monthly health column from 2007 to 2009
3. Sites BD and **Davis MA**. “4 Steps to Reversing the Epidemic of Opioid Use Disorders” August 2017. STAT (Boston Globe).
4. **Davis MA** and Langa K. “Rich American Seniors are Getting Healthier, Leaving the Poor Behind” September 2017. The Conversation. Republished by the Associated Press and the Chicago Tribune.

Other Media

Educational Materials (textbooks)

1. **Davis MA** and Sirovich BE. (2012) Regression and Other Methods Lab Manual.
Description: A 200-page laboratory manual that teaches applied regression and data management. The text has been used to train Dartmouth MPH and MS students since 2012
2. **Davis MA**. (2018) Management & Analysis of Large Health Data Programming Manual.
Description: A 338-page textbook that teaches how to analyze national health data from: the National Health and Nutrition Examination Survey (NHANES); the Area Health Resource File, the Surveillance, Epidemiology, and End Results Program (SEER) Cancer Registry; the National Ambulatory Medical Care Survey (NAMCS and NHAMCS); and the Medical Expenditure Panel Survey (MEPS). The programming manual is the textbook for my university-wide health sciences course “Management and Analysis of Large US Health Data” (HS807).

Abstracts/Poster Presentations

1. **Davis MA**, Whedon JM, Weeks WB. (2010) Utilization and Expenditures on Chiropractic Care in the U.S. from 1997 to 2006. 2010 Association of Chiropractic Colleges and Research Agenda Conference, Las Vegas, NV
2. **Davis MA**, Weeks WB. (2011) Regional Variation in the Supply of U.S. Chiropractors. 2011 American Public Health Association Annual Meeting, Washington, DC
3. **Davis MA**, Weeks WB. (2011) The Concentration of Out-of-pocket Expenditures on Complementary and Alternative Medicine in the United States. 2011 AcademyHealth Annual Research Meeting, Seattle, WA
4. **Davis MA**, Martin BI, Coulter ID, Weeks WB. (2011). Trends in Utilization and Expenditures on Complementary and Alternative Medicine in the United States. 2011 AcademyHealth Annual Research Meeting, Seattle, WA
5. **Davis MA**. (2012) Direct-to-consumer Advertising of Integrative Medicine Clinics at US Academic Medical Centers. 2012 AcademyHealth Annual Research Meeting, Orlando, FL
6. **Davis MA**, Mackenzie TA, Cottingham KL, Gilbert-Diamond D, Punshon T, Karagas MR. (2012) Rice Consumption and Urinary Arsenic Concentrations in US Children. Dartmouth Graduate Student Research Session, Hanover, NH.
7. **Davis MA**, Li Z, Gilbert-Diamond D, Mackenzie TA, Cottingham K, Lee JS, Baker ER, Marsit CJ, Karagas MR. (2013) Infant Toenails as Biomarkers of in utero Arsenic Exposure. 2013 EPA/NIEHS Environmental Health Research Meets Clinical Practice and Public Policy Meeting, National Institutes of Health, Washington, DC
8. Harrison JM, **Davis MA**, Barton DL, Janz NK, Pressler SJ, Friese CR. (2016) Functional Status and Quality of Life Among Breast Cancer Survivors with Heart Failure: Secondary Analysis of the Medicare Health Outcomes Survey. 2016 Oncology Nursing Society Annual Congress, Denver, CO.
9. Harrison JM, Friese CR, Barton DL, Janz NK, Pressler SJ, **Davis MA**. (2017) Patient-Reported Functional Status and Quality of Life Outcomes in Breast Cancer Survivors with Comorbid Chronic Heart Failure. 2017 AcademyHealth Annual Research Meeting, New Orleans, LA.
10. Harrison JM, Lagisetty P, Site BD, Guo C, **Davis MA**. (2017) Trends in Prescription Pain Medications by Race and Ethnicity Among US Adults who have Non-cancer Pain. 2017 University of Michigan School of Nursing Dean’s Research Day, “The Science of Additions: From Risk to Recovery”, Ann Arbor, MI.
11. **Davis MA**, Guo C, Langa KM, Nallamothu BK. (2017) Functional Status and Medical Diagnoses Among Self-Reported Healthy Older Adults in the United States, 2000 to 2014. 2017 AcademyHealth Annual Research Meeting, New Orleans, LA.

12. **Davis MA, Guo C, Titler MG, Friese CR.** (2017) Advanced Practice Clinicians as a Usual Source of Care for Adults in the United States. 2017 AcademyHealth Annual Research Meeting, New Orleans, LA.
13. **Davis MA, Lin AL, Liu H, Site BD.** (2017) Prescription Opioid Use Among Adults with Mental Health Disorders in the United States. 2017 AcademyHealth Annual Research Meeting, New Orleans, LA.
14. **Harrison JM, Lagisetty P, Site BD, Guo C, Davis MA.** (2017) Trends in Prescription Pain Medications by Race and Ethnicity Among US Adults who have Non-cancer Pain. 2017 AcademyHealth Annual Research Meeting, New Orleans, LA.
15. **Davis MA, Anthoplos R, Tootoo J, Titler MG, Yakusheva O, Bynum JPW.** (2017) The Availability of Chiropractic Care in the United States: More Like other Healthcare Provider or For-Profit Health Businesses? 2017 AcademyHealth Annual Research Meeting, New Orleans, LA.
16. **Davis MA, Kai Z, Liu Y, Levy H.** (2017) Public Response to the Affordable Care Act on Twitter. 2017 AcademyHealth Annual Research Meeting, New Orleans, LA.
17. **Yakusheva O, Davis MA.** (2017) Primary Care Market: The Role of Provider Market Diversification for Quality, Utilization, and Costs of Care. 2017 AcademyHealth National Health Policy Conference, Washington, DC.
18. **Guo C, Davis MA, Banerjee M.** (2018) Mining Health Data for Prediction and Pattern Identification. Institute for Healthcare Policy and Innovation Annual Meeting, Ann Arbor, MI.
19. **Bell SA, Banerjee M, Griggs J, Iwashyna TJ, Davis MA.** (2018). The Effect of Exposure to Disaster on Cancer Survival. 2018 National Clinician Scholar Program Conference, Los Angeles, CA.
20. **Masaracchia MM, Herrick MD, Liu H, Sites BD, Davis MA.** (2018) Association between Sleep Apnea and Perioperative Outcomes among Patients undergoing Shoulder Arthroscopy. 2018 World Congress on Regional Anesthesia & Pain Medicine, New York, NY.
21. **Czerwinski M, Davis MA, Yakusheva O.** (2018) U.S. primary care market: The role of provider diversification for quality. Presented at the 2018 AcademyHealth Annual Research Meeting, Seattle, WA (Student Award, Best of AcademyHealth)
22. **Bell SA, Davis MA, Iwashyna T.** (2019) Hospitalizations following Natural Disasters among Older U.S. Adults. 2020 AcademyHealth National Health Policy Conference, Washington, DC.
23. **Masaracchia M, Sites BD, Herrick M, Davis MA.** (2020) Opioid Users and the Patient-Centered Medical Home. American Society of Regional Anesthesia and Pain Medicine 45th Annual Meeting, San Francisco, CA.
24. **Davis MA, Cher B, Friese CR, Bynum JPW.** (2020) Suicide among U.S. Nurses and Physicians. 2020 AcademyHealth Annual Research Meeting, Boston, MA.
25. **Cher B, Yakusheva O, Liu H, Bynum JPW, Davis MA.** (2020) The Effect of Healthcare Provider Availability on Spine Spending. 2020 AcademyHealth Annual Research Meeting, Boston, MA.
26. **Davis MA, Yakusheva O, Liu H, Bynum JPW.** (2020) The Effect of a Loss in Access to Chiropractic Care on Utilization of Medical Services for Spine Conditions Among Older Adults: A Quasi-Experimental Study. 2020 AcademyHealth Annual Research Meeting, Boston, MA.
27. **Davis MA, Lee K, Harris M, Langa KM, Bynum JPW, Hoffman GJ.** (2021) Differences in the Time to Dementia Diagnosis by Socioeconomic Status: A Retrospective Cohort Study. Under review for the 2021 AcademyHealth Annual Research Meeting.

Selected Lay Articles and Interviews about my Research

1. Family Practice News. "Use of Complementary and Alternative Medicine Providers Declines" July 2007. Interviewed by M. Alexander Otto. Article in print and on the worldwide web.
2. US Department of Health and Human Services. "Soring US Spinal Care Spending due to Specialists" September 2012. Article on the US Department of Health and Human Service's and US News websites.
3. US Environmental Protection Agency (EPA). "Rice Consumption May Expose Children to Arsenic" 2012. Article on the US EPA website.

4. National Public Radio, Marketplace. “Researchers are Finding Nuggets of Truth in Bad Jokes” February 2014. Interviewed by Dan Gorenstein. Interview broadcast on NPR and on the worldwide web.
5. The Atlantic. “The Science of Facebook Jokers” May 2014. Interviewed by James Hamblin. Article on the worldwide web.
6. USA Today. “One-liners May Hint at Feelings about Health Care” March 2014. Interviewed by Mary Bowerman. Article in print and on the worldwide web and reprinted by the Huffington Post.
7. New Hampshire Union Leader. “Dartmouth Researchers Study Success of Doctor Jokes on Facebook” February 2014. Interviewed by Meghan Pierce. Article in print and on the worldwide web.
8. Valley News. “Researchers Seek Hints at Patient Attitudes in Doctor Jokes” February 2014. Interviewed by Maggie Cassidy. Article in print and on the worldwide web.
9. Discover Magazine. “What do you get when you combine doctor jokes, Facebook, and science?” March 2014. Seriously Science blog, article on the worldwide web.
10. USA Today. “An Apple a Day Does Not Keep the Doctor Away - Really” March 2015. Interviewed by Kim Painter. Article in print and on the worldwide web.
11. The Today Show. “An Apple a Day Keeps this Person Away (it’s not the doctor)” March 2015. Interviewed by Meghan Holohan. Article on the Today Show’s website.
12. Reuters. “Apple a Day Might Keep the Pharmacist Away” March 2015. Interviewed by Lisa Rapaport. Article on the worldwide web.
13. Associated Press. “Research Debunks An Apple a Day Keeps the Doctor Away” March 2015. Interviewed by Lindsey Tanner. Article appeared across regional US newspapers in print, on the worldwide web (e.g., Fox, CBS, ABC News), and in a national radio broadcast.
14. MTV News. “Sorry, Mom: An Apple a Day Does Not Keep the Doctor Away, Says Research” March 2015. By Michael Pomranz. Article appeared on the worldwide web.
15. Forbes. “No, An Apple a Day Won’t Keep the Doctor Away” March 2015. Email interview by Larry Husten. Article on the worldwide web.
16. Good Morning America. “An Apple a Day May Not Keep the Doctor Away After All, a New Study Finds” March 2015. By Liz Neporent. Article appeared on the Good Morning America broadcast, website, and on ABC News.
17. The Atlantic. “Daily Apple Not Associated with Reduced Doctor Use” March 2015. Interviewed by James Hamblin. Article on the worldwide web.
18. Time Magazine. “An Apple a Day Keeps the Pharmacist Away” March 2015. By Alexandra Sifferlin. Article on Time Magazine’s website.
19. Huffington Post, United Kingdom. “Eating an Apple a Day Doesn’t Keep the Doctor Away, But it does Reduce your Pharmacy Visits, Study Finds” January 2015. By Rachel Moss. Article on worldwide web.
20. Harvard Health Blog. An Apple a Day May Not Keep the Doctor Away, but it’s a Healthy Choice Anyway. April 2015. By Daniel Pendick. Article on Harvard Medical School’s website.
21. Politico. “Health Affairs Study Challenges End-Of-Life Spending Assumptions” June 2016. By Sarah Karlin-Smith. Article appeared on Politico’s website.
22. Wales Online. “How True are our Most Popular Sayings?” May 2016. By Darren Devine. Article on the worldwide web.
23. Health Leaders News Media. “Explosive Healthcare Spending at End Of Life Uncommon” June 2016. Article appeared on the worldwide web.
24. Health Affairs Blog. “New Methodology to Examine Spending Patterns for End-Of-Life Care” June 2016. Interviewed by Chris Fleming. Article on the Health Affairs website.
25. American Journal of Managed Care. “High Persistent Spending Fairly Common Toward End-Of-Life” August 2016. By Priyam Vora. Article on AMJC website.
26. Managed Health Care. “Spending Patterns for End-Of-Life Care Set in Motion One Year Before Death” July 2016. Article on the worldwide web.
27. University of Michigan News. “Four Paths to the End of Life – One Far More Expensive than the Others – Emerge in New Study” June 2016. Interviewed by Kara Gavin. Appeared on the worldwide web.

28. Canada Free Press. "The Apples of Idunn" August 2016. By Wes Porter. Article on the worldwide web.
29. Chicago Tribune. "Going Gluten-free Might Increase Risk of Arsenic, Mercury Exposure, Study Finds" February 16, 2017. By Joseph Hernandez. Article on the worldwide web.
30. Ars Technica. "Potential Risks of Going Gluten-free, High Arsenic and Mercury Levels" February 13, 2017. By Beth Mole. Article on the worldwide web.
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