
CURRICULUM VITAE

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DEMOGRAPHIC INFORMATION

Current Appointments

- 2018-Present Assistant Professor, School of Nursing, College of Health and Human Sciences, Purdue University, West Lafayette, IN
- 2018-Present Faculty Associate, Center on Aging and the Life Course, Purdue University, IN
- 2018-Present Faculty Associate, Regenstrief Center for Healthcare Engineering (RCHE), Purdue University, IN
- 2019-Present Faculty Member, Center for Research on Brain, Behavior, and Neurorehabilitation (CEREBRAL), Purdue University, IN
- 2022-Present Faculty Member, Institute of Inflammation, Immunology and Infectious Disease, Purdue University, IN

Education and Training

Undergraduate (Double Degree)

- 2003-2008 Bachelor of Medicine (MBBS), Graduated with honors, Southwest Medical University, Sichuan, China
- 2007-2010 Bachelor of Science (BS) in Pre-Medicine & Nursing, Phi Kappa Phi, Michigan State University, MI

Doctoral/Graduate

- 2010-2013 Master of Science (M.S.) in Adult/Gerontology Primary Care Nurse Practitioner specialization, Purdue University, West Lafayette, IN
- 2013-2018 Doctorate of Philosophy (Ph.D.), Yale Graduate School of Arts and Sciences, Yale University, New Haven, CT
Dissertation: Association between diabetes and health status outcomes in young women and men after acute myocardial infarction (Secondary analysis using mixed effects models)

Postgraduate

- 2013-2016 Training Track in Sleep Medicine and Sleep Research, Yale University, CT

Postdoctoral

- 2018-2021 Fellowship in Cardiovascular Clinical Research, Cleveland Clinic, OH
- 2021 Fellowship in Data Analytics, Data Incubator, Pragmatic Institute, AZ

RESEARCH ACTIVITIES

2018-Present Principal Investigator, Purdue University, IN

- Supervise preparation, execution, and management of the projects listed below:
 - “The effects of COVID-19 on Mental Health & General Health Status among University Students: A mixed methods approach study”
 - “Associations of Combined Socioeconomic, Metabolic and Lifestyle Risks with Undiagnosed Diabetes Among Different Racial and Ethnic Groups”
 - “Blood Pressure Control and Cognitive Impairment: The Role of Diabetes”

2018-2020 Principal Investigator with mentorship, Cleveland Clinic, OH

2017-2018 Research Assistant, Yale University, School of Nursing, CT

2015-2018 Postgraduate Research Associate, The Center for Outcomes Research and Evaluation (CORE), Yale University, CT

2014-2015 Research Assistant, Yale University, CT

2013-2018 Dissertation Research, Yale University, CT

2013-2014 Research Assistant, Yale University, CT

2011-2013 Research Assistant, Purdue University, IN

2010 Research Assistant, Michigan State University, MI

2006-2008 Research Associate, Southwest Medical University, Sichuan, China

Funded Research Projects:

1. Synergistic Connections Between Life and Social Sciences Award, **Ding (PI)**, Purdue University, 06/2022-06/2023
Intensive Blood Pressure Control and Cognitive Impairment: The Role of Diabetes, Race & Sex
2. Clifford B. Kinley Trust Award, **Ding (PI)**, 05/2021-05/2022
Associations of combined socioeconomic, metabolic, and lifestyle risks with undiagnosed diabetes among different racial and ethnic groups
3. U.S. State Department: Stevens Initiative & Aspen Institute, **Ding (Purdue Site PI)**, 08/2021-04/2022
Research, Education, and Advocacy for Community Health (REACH): Data Analytics in Public Health
4. AstraZeneca, **Ding (PI with mentorship)**, 11/2020-12/2021

Type 2 Diabetes: Treatment satisfaction, symptoms, and quality of life

5. Health Resources and Services Administration (HRSA-19-018), **Ding (Co-Investigator)**, 08/2020-07/2021
Quality processes for health improvement (QPHI) - Marion General Hospital
6. Protect Purdue Innovations Faculty Grants, **Ding (PI)**, 10/2020-12/2020
The Effects of COVID-19 on Mental Health and General Health Status among University Students
7. Purdue PRF Summer Faculty Grant, **Ding (Purdue Site PI)**, 06/2020-07/2020
Associations Between Polysomnographic Phenotypes of Obstructive Sleep Apnea and Incident Type 2 Diabetes: Results from the DREAM Study

Peer-reviewed Research Publications:

1. **Ding Q**, Ward MD, Edwards N, Wu EA, Kersey S, Funk M (2023) A mixed-methods approach to understand university students' perceived impact of returning to class during COVID-19 on their mental and general health. *PLoS ONE* 18(1): e0279813. <https://doi.org/10.1371/journal.pone.0279813>
2. **Ding Q**, Funk M, Spatz ES, Lin H, Batten J, Wu E, Whittemore R. Sex-specific impact of diabetes on all-cause mortality among adults with acute myocardial infarction: An updated systematic review and meta-analysis, 1988-2021. *Frontiers in Endocrinology (Lausanne)*. 2022, 13:918095.
3. Lu Y, Zhang H, Lu J, **Ding Q**, Li X, Wang X, Sun D, Tan L, Mu L, Liu J, Feng F, Yang H, Zhao H, Schulz WL, Krumholz HM, Pan X, Li J. Prevalence of Dyslipidemia and Availability of Lipid-Lowering Medications Among Primary Health Care Settings in China. *JAMA network open*. 2021;4(9): e2127573-e. doi: 10.1001/jamanetworkopen.2021.27573.
4. **Ding Q**, Qin L, Wojeck B, Inzucchi SE, Ibrahim A, Bravata DM, Strohl KP, Yaggi HK, Zinchuk AV. Polysomnographic Phenotypes of Obstructive Sleep Apnea and Incident Type 2 Diabetes: Results from the DREAM Study. *Annals of the American Thoracic Society*. 2021 Jun 29. PMID: 34185617. doi: 10.1513/AnnalsATS.202012-1556OC.
5. **Ding Q**, Massey D, Huang C, Grady CB, Lu Y, Cohen A, Lu Y, Cohen A, Matzner P, Mahajan S, Caraballo C, Kumar N, Xue Y, Dreyer R, Roy B, Krumholz HM. Tracking self-reported symptoms and medical conditions on social media during the COVID-19 pandemic: Infodemiological Study. *Journal of Medical Internet Research Public Health Surveillance*. 2021 Sep 28;7(9): e29413. PMID: 34517338. doi: 10.2196/29413.
6. Massey D, Huang C, Lu Y, Cohen A, Oren Y, Moed T, Matzner P, Caraballo C, Kumar N, Xue Y, **Ding Q**, Dreyer R, Roy B, Krumholz H. Engagement With COVID-19 Public Health Measures in the United States: A Cross-sectional Social Media Analysis from June to

November 2020. *Journal of Medical Internet Research*. 2021 Jun 21;23(6): e26655. PMID: 34086593. doi: 10.2196/26655.

7. **Ding Q**, Spatz ES, Lipska KJ, Lin H, Spertus JA, Dreyer RP, Whittemore R, Funk M, Bueno H, Krumholz HM. Newly diagnosed diabetes, and outcomes after acute myocardial infarction in young adults. *Heart*. 2020 Oct 20: heartjnl-2020-317101. doi: 10.1136/heartjnl-2020-317101. Epub ahead of print. PMID: 33082173.
8. Zheng X, Spatz ES, Bai X, Huo X, **Ding Q**, Horak P, Wu X, Guan W, Chow CK, Yan X, Sun Y, Wang X, Zhang H, Liu J, Li J, Li X, Spertus JA, Masoudi FA, Krumholz HM. Effect of text messaging on risk factor management in patients with coronary heart disease: The CHAT randomized clinical trial. *Circulation: Cardiovascular Quality and Outcomes*. 2019;12: e005616.
9. **Ding Q**, Funk M, Spatz ES, Whittemore R, Lin H, Lipska KJ, Dreyer RP, Spertus JA, Krumholz HM. Association of diabetes mellitus with health status outcomes in young women and men after acute myocardial infarction: Results from the VIRGO study. *Journal of American Heart Association*. 2019;8: e010988.
10. Huo X, Krumholz HM, Bai X, Spatz ES, **Ding Q**, Horak P, Zhao W, Gong Q, Zhang H, Yan X, Sun Y, Liu J, Wu X, Guan W, Wang X, Li J, Li X, Spertus JA, Masoudi FA, Zheng X. Effects of mobile text messaging on glycemic control in patients with coronary heart disease and diabetes mellitus: A randomized clinical trial. *Circulation: Cardiovascular Quality and Outcomes*. 2019;12: e005805.
11. Lu Y, **Ding Q**, Xu X, et al. Sex differences in omega-3 and -6 fatty acids and health status among young adults with acute myocardial infarction: results from the VIRGO study. *Journal of American Heart Association*. 2018; 7(11).
12. Dreyer RP, Zheng X, Xu X, Liu S, Li J, **Ding Q**, Du X, Li X, Zhang H, Masoudi FA, Spertus JA, Krumholz HM and Jiang L. Sex differences in health outcomes at one year following acute myocardial infarction: A report from the China Patient-Centered Evaluative Assessment of Cardiac Events prospective acute myocardial infarction study. *European Heart Journal-Acute Cardiovascular Care*. 2018:2048872618803726.
13. **Ding Q**, Redeker N, Pisani MA, Yaggi HK, & Knauert MP. Factors influencing patients' sleep in the intensive care unit: perceptions of patients and clinical staff. *American Journal of Critical Care*, 2017. 26(4): p. 278-286.
14. Huo X, Spatz ES, **Ding Q**, Horak P, Zheng X, Masters C, . . . Jiang L (2017). Design and rationale of the Cardiovascular Health and Text Messaging (CHAT) Study and the CHAT-Diabetes Mellitus (CHAT-DM) Study: two randomized controlled trials of text messaging to improve secondary prevention for coronary heart disease and diabetes. *BMJ Open*, 7(12), e018302. doi: 10.1136/bmjopen-2017-018302.

15. **Ding Q**, Whittemore R, Redeker N. (2016). Excessive daytime sleepiness in stroke survivors: An integrative review. *Biological Research Nursing*. doi:10.1177/1099800415625285.
16. **Ding Q**, Yehle K S, Edwards NE, & Griggs RR. (2014). Geriatric heart failure: Awareness, evaluation, and treatment in primary care. *The Journal for Nurse Practitioners*, 10(1), 49-54.

Invited Commentary/Review Articles

1. Zinchuk A, **Ding Q**. A commentary on Polysomnographic Phenotypes of Obstructive Sleep Apnea and Incident Type 2 Diabetes: Results from the DREAM Study. *PracticeUpdate* website.
Available at: <https://www.practiceupdate.com/content/polysomnographic-phenotypes-of-obstructive-sleep-apnea-and-incident-type-2-diabetes/120469/65/20/1>. Accessed July 22, 2021
2. **Ding Q**, Kryger M. Greater health care utilization and cost associated with untreated sleep apnea. *Journal of Clinical Sleep Medicine*. 2020; 16:5-6.

Journal peer review activities: Reviewer:

- 2022-Present *Circulation*
- 2022-Present *Journal of Clinical Medicine*
- 2022-Present *Journal of American Heart Association*
- 2022-Present *Stroke*
- 2022-Present *Sensors*
- 2021-present *Journal of Medical Internet Research*
- 2020-present *Sleep and Breathing*
- 2020-present *Open Heart*
- 2019-present *Annals of Epidemiology*
- 2018-present *Journal of The American College of Cardiology (JACC) and JACC Heart Failure*

Conference Presentations

1. **Ding Q**, Spatz ES, Isaacs D, Bena J, Morrison S, Levay M, et al. Cardiovascular disease and type 2 diabetes: Treatment satisfaction, quality of life and diabetes-related symptoms when receiving sodium-glucose cotransporter 2 inhibitors versus other noninsulin diabetes medication. *Journal of the American College of Cardiology*. 2022;79(9_Supplement):1547-. doi: doi:10.1016/S0735-1097(22)02538-4.
2. **Ding Q**, Qin L, Wojeck B, Inzucchi S, Ibrahim A, Bravata D, Strohl KP, Yaggi, HK, Zinchuk A (May 14, 2021). Associations Between Polysomnographic Phenotypes of Obstructive Sleep Apnea and Incident Type 2 Diabetes (poster presentation). *American Journal of Respiratory and Critical Care Medicine*. 2021; 203: A4679.
3. **Ding Q**, Qin L, Wojeck B, Inzucchi S, Ibrahim A, Bravata D, Strohl KP, Yaggi, HK, Zinchuk A (April 30, 2021). Associations Between Polysomnographic Phenotypes of

Obstructive Sleep Apnea and Incident Type 2 Diabetes (poster presentation). Sixth Annual Sleep & Symptom Research Symposium, Yale School of Nursing.

4. **Ding Q**, Spatz ES, Lipska K, et al. (March 2020). Screening for newly diagnosed diabetes in young adults hospitalized with acute myocardial infarction-results from the VIRGO (Variation in Recovery Role of Gender on Outcomes of Young Acute Myocardial Infarction Patients) study (poster presentation). American College of Cardiology 2020 Scientific Session/World Congress of Cardiology. Journal of the American College of Cardiology, 2020; Chicago. 75:1918.
5. Zheng X, Spatz ES, Bai X, Huo X., **Ding Q**, Horak P, Wu X, Guan W, Chow CK, Yan X, Sun Y, Wang X, Zhang H, Liu J, Li J, Li X, Spertus J, Masourdi FA, & Krumholz HM. (April 2019). Effect of cardiovascular health and text messaging (CHAT) on risk factor management in patients with coronary heart disease: A randomized clinical trial (poster presentation). American Heart Association, Quality of Care & Outcomes Research. Arlington, VA.
6. **Ding Q**, (March 2019). Risk Factors, Clinical and Patient-Reported Outcomes in Adults with Cardiovascular Disease, Center on Aging and the Life Course Scholars in the Spotlight Luncheon, West Lafayette, IN.
7. **Ding Q**, Funk M, Spatz ES et al. (Nov 2018). Abstract: Association between diabetes and health status outcomes in young women and men after acute myocardial infarction: Results from the VIRGO study. American Heart Scientific Sessions 2018, Chicago, Illinois.
8. **Ding Q**, Whittemore R, & Redeker N. (Dec 2016). Abstract TP379: Excessive daytime sleepiness in stroke survivors: evidence from an integrative literature review. *Stroke*, 47 (Suppl 1), ATP379. Poster presentation at International Stroke Conference, Los Angeles, CA.
9. **Ding Q**, Knauert MP, Redeker N, & Samuel D. (April 2014). The impacts of environmental stressors on patients' nighttime sleep: perceptions of patients, families and health care team. Poster presentation at the Eastern Nursing Research Society 26th Annual Scientific Sessions, Philadelphia, PA.
10. **Ding Q**, & DeCrane S. (March 2013). An adapted cognitive reserve model using pain management for delirium prevention. Poster Presentation at Midwest Nursing Research Society Annual Research Conference, Chicago, Illinois.

EDUCATIONAL ACTIVITIES

Teaching

2018-Present Assistant Professor, School of Nursing, College of Health and Human Sciences, Purdue University, IN

- 2019-Present Guest Lecturer, Department of Public Health, School of Health Sciences, Purdue University, IN
- 2021-2022 Lead faculty at Purdue Site, Data Science & Data Analytics in Public Health, The Research, Education, and Advocacy for Community Health (REACH) Program
- 2015-2016 Graduate Teaching Fellow, Yale University, School of Nursing, CT
- 2008 Teaching Assistant, Department of Integrative Studies in Social Science, Michigan State University, MI
- 2003-2004, Teaching Assistant, Department of Anatomy, Southwest Medical University, China

CLINICAL ACTIVITIES

Certifications & Licenses

- 2013-2023 Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP-BC)
- 2010-2023 California RN License #792260
- 2010-2023 Michigan RN License #4704284273
- 2010-2023 Indiana RN License #28198257A
- 2010-2017 Advanced Cardiac Life Support (ACLS), American Heart Association
- 2009-2023 Basic Life Support (BLS), American Heart Association

Clinical Experience

- 2013-2016 Sleep Medicine and Research Trainee, Yale University, Yale New Haven Hospital, VA Connecticut Healthcare System (Research Mentors: Drs. Meir Kryger and Nancy S. Redeker; Clinical Supervisors: Drs. Brian Koo, Mark A. D'Agostino, Anthony Dioguardi, Melissa Knauert, and Lynelle Schneeberg). Received training to understand aspects of sleep, sleep assessment, and sleep disorders treatment; learned and practiced sleep study interpretations, sleep disorders diagnosis and management in sleep clinics, dental departments, behavioral sleep medicine, and hospital settings.
- 2013 Clinical Assistant, Saint Anthony Rehabilitation and Nursing Center (Supervisor: Dr. J.P. Adler); Rounded at nursing home performing exams and revising current plans of care.
- 2012-2013 Clinical Assistant, Carroll County Family Clinic (Supervisor: B. Strasburger & R. Griggs); Performed physical examinations, diagnosed and treated acute and chronic conditions, and formulated plans of care with an emphasis on wellness.
- 2012 Clinical Assistant, Regional Occupational Care Center. Lafayette, IN. (Supervisor: P. Scheetz); Performed employment physical exams and provided basic work-related injury treatment under supervision.

- 2012 Staff Nurse, Westminster Village (long-term care facility). Lafayette, IN.
(Supervisor: D. Booe)
Provided nursing care and patient education along with physical/mental/emotional support for residents with Alzheimer's disease, heart failure, dementia, and other chronic conditions.
- 2011-2012 Clinical Assistant, Riggs Community Health Center, Lafayette, IN.
(Supervisor: Dr. N. Edwards); Diagnosed and treated acute and chronic conditions for the underserved population.
- 2011 Nurse Intern, Ingham Regional Medical Center, Lansing, MI. (Supervisor: J. Ash); Learned and practiced primary nursing care in collaboration with the professional nursing staff and multidisciplinary team in clinical settings, including Medical-Surgical, Oncology, Neurology, Cardiac, and ICU.
- 2006-2007 Intern in Internal Medicine, The 2nd Hospital of Yibin City, Sichuan, China.

Professional Affiliations

- American Heart Association, Council on Lifestyle and Cardiometabolic Health
- American Diabetes Association
- American Academy of Sleep Medicine
- American College of Cardiology
- National League for Nursing
- Midwest Nursing Research Society
- American Association of Nurse Practitioners (AANP)
- Sigma Theta Tau International Honor Society of Nursing
- American Nurses Association

RECOGNITION

Honors and Awards

- 2022-2023 Societal Impact Fellow, Purdue University, West Lafayette, IN
- 2017-2018 & 2014-2015 McLeod-Blue-Skye Conference Travel Fellowship, Yale University, CT
- 2008-2010 Dean's List (4/6 Semesters) for Academic Performance, Michigan State University, MI
- 2008-2010 Phi Kappa Phi Honor Society for Academic Performance, Michigan State University, MI
- 2008 Heart and Soul Award for Volunteer and Community Service, Michigan Campus Compact, MI
- 2005-2006 & 2004-2005 Second Prize "College Scholarship," Southwest Medical University, China

2004-2006 Student Leader Awards, Southwest Medical University, China

2004-2005 Top Scholarship, Southwest Medical University, China

Invited Talks

- 11/2021 Presenter, “Polysomnographic phenotypes of obstructive sleep apnea and incident type 2 diabetes”, American Thoracic Society Assembly on Sleep Respiratory & Neurobiology Research Fall Sleep Research Symposium, Virtual Conference.
- 05/2021 Podcast presenter, PulmonologyConsultant, Consultant 360, “On Associations between Polysomnographic Phenotypes of OSA and Incident Type 2 Diabetes”, <https://www.consultant360.com/podcast/pulmonology/ats/qinglan-ding-phd-associations-between-polysomnographic-phenotypes-osa-and>
- 12/2019 Presenter, The University of Hongkong, Shenzhen Hospital, “Sex-Specific Impact of Diabetes on Short- and Long-Term Mortality among Adults with Acute Myocardial Infarction”, The 9th Hongkong International Nursing Forum cum 1st Greater Bay Area Nursing Conference, Shenzhen, China.
- 06/2019 Speaker, Fuwai Hospital, National Center of Cardiovascular Diseases (NCCD) “Health Status in Young Adults After Myocardial Infarction,” Beijing, China.

OTHER EXPERIENCES

Public Service

- 2019-Present Graduate Program Admission Faculty Committee, School of Nursing, Purdue University, IN
- 2016-2018 Mental Health and Counseling (MHC) Advisory Committee for Graduate & Professional Schools, Yale University, CT
- 2016-2017 Graduate and Professional Student Senate Senator, Yale University, CT
- 2016 Greenberg World Fellow Student Liaison, Yale University, CT
- 2015-2016 Co-Chair Funding Committee, Inspiring Yale (IY), Yale University, CT
- 2015-2016 Student Representative, Executive Committee, Yale School of Nursing, CT
- 2013-2015 Vice President, Association of Chinese Students and Scholars at Yale (ACSSY), Yale University, CT
- 2009-2010 Student Representative, Undergraduate Program and Dean’s Student Advisory Committee, College of Nursing, Michigan State University, East Lansing, MI
- Summer 2008 Medical Volunteer, Earthquake Field Hospital in Qingchuan, Sichuan,

2007
2003-2006

China
Program Coordinator, Alfa Active Living for Adults, East Lansing, MI
Vice President, College Student Association, Southwest Medical
University, Sichuan, China

Analytical Skills/Language Fluency/Interests

- Analytical Skills:
 - Coding in Python, Structured Query Language (SQL), Data visualization using Tableau and Python, Meta-analysis using R and Review Manager
 - Qualitative data analysis using ATLAS.ti and NVivo

- Advanced Statistical Analysis System (SAS) Programming Certificates:
 - Structural Equation Modeling Using SAS
 - Applied Clustering Techniques
 - Mixed Models Analyses Using SAS
 - Survival Analysis using the Proportional Hazards Model

- Additional Certificates:
 - Inferring Causal Effects from Observational Data (R), University of Pennsylvania
 - Management of Fashion and Luxury Companies, University Bocconi
 - Introduction to Marketing, University of Pennsylvania

- Foreign Language Skills: Fluent in Chinese (Mandarin, Cantonese, Chinese Dialects in Guizhou, Sichuan, Tujia), Japanese (reading), French (conversational & reading)

- Interests: Reading; Writing; Hiking; Yoga; Fashion and Design; Amateur Dancer, Choreographer, and Producer