

## CURRICULUM VITAE

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### DEMOGRAPHIC INFORMATION

#### Current Appointments

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

#### Education and Training

##### Undergraduate (Double Degree)

- 2010 B.S. Michigan State University (East Lansing, MI), Phi Kappa Phi
- 2010 Bachelor of Medicine (MBBS), Southwest Medical University (Sichuan, China), Graduated with honors

##### Doctoral/graduate

- 2013 M.S. Purdue University (Adult/Gerontology Primary Care Nurse Practitioner specialization), West Lafayette, IN
- 2018 Ph.D. Yale Graduate School of Arts and Sciences (Nursing and Health Outcomes Research), Yale University, New Haven, CT

##### Postdoctoral

- 2013-2016 Training Track in Sleep Medicine and Sleep Research, Yale University, CT
- 2018-2021 Post-Doctoral Clinical Research Fellow, Cleveland Clinic, OH
- 2021 Data Analytics Fellowship, The Data Incubator, Pragmatic Institute

### RESEARCH ACTIVITIES

- 2018-Present Principal Investigator, Purdue University, Health & Human Sciences
- Responsible for the preparation, conduct and administration of the following projects:
    - “The effects of COVID-19 on Mental Health & General Health Status among University Students”
    - “Associations of Combined Socioeconomic, Metabolic and Lifestyle Risks with Undiagnosed Diabetes Among Different Racial and Ethnic Groups”
- 2018-Present Co-Principal Investigator, Cleveland Clinic, OH
- Design and conduct prospective observational study “Type 2 Diabetes Mellitus: Treatment satisfaction, diabetes-related symptoms and health-related quality of life”

- 2017-2018 Research Assistant, Yale University, School of Nursing
- 2015-2018 Postgraduate Research Associate, The Center for Outcomes Research and Evaluation (CORE), Yale University
- 2014-2015 Research Assistant, Yale University
- 2013-2018 Dissertation Research, Yale University  
Dissertation: “Association of Diabetes with Health Status Outcomes among Young Women and Men after Acute Myocardial Infarction: Results from the VIRGO Study”
- 2013-2014 Research Assistant, Yale University
- 2011-2013 Research Assistant, Purdue University
- 2010 Research Assistant, Michigan State University
- 2006-2008 Research Associate, Southwest Medical University

**Funded Research Projects:**

1. 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
2. U.S. State Department: Stevens Initiative **Ding (Purdue Site PI)** 08/2021-04/2022  
*Research, Education, and Advocacy for Community Health (REACH):* A virtual data science and health research learning exchange project between college students in the U.S. and the Middle East region. Aim to help young people develop crucial skills in applying data science in health sciences while engaged in impactful cross-cultural experiences
3. AstraZeneca **Ding (PI with mentor)** 09/2020-09/2021  
*Type 2 Diabetes: Treatment satisfaction, symptoms, and quality of life*
4. 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*
5. HRSA **Ding (Co-Investigator)** 08/2020-07/2021  
*Quality Processes for Health Improvement (QPHI) - Marion General Hospital / HRSA-19-018*
6. Purdue PRF Summer Faculty Grant **Ding (PI)** 06/2020-07/2021  
*Associations Between Polysomnographic Phenotypes of Obstructive Sleep Apnea and Incident Type 2 Diabetes: Results from the DREAM Study*

**Peer-reviewed Research Publications:**

1. Janmohamed K\*, Walter N\*, Nyhan K, Khoshnood K, Tucker JD, Sangngam N, Altice FL, **Ding Q**, Wong A, Schwitzky ZM, Bauch CT, De Choudhury M, Papakyriakopoulos O, Kumar N. Interventions to Mitigate COVID-19 Misinformation: A Systematic Review and Meta-Analysis. *Journal of Health Communication*. 2022 Jan 9:1-12. PMID: 35001841. doi: 10.1080/10810730.2021.2021460.
2. 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.
3. **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.
4. **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.
5. 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. *J Med Internet Res*. 2021 Jun 21;23(6): e26655. PMID: 34086593. doi: 10.2196/26655.
6. **Ding Q**, Spatz ES, Lipska KJ, Lin H, Spertus JA, Dreyer RP, Whittlemore 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.
7. 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.
8. **Ding Q**, Funk M, Spatz ES, Whittlemore 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.

9. 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.
10. 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).
6. 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.
7. **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.
8. Huo, X., Spatz, E. S., **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 randomised 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.
9. **Ding, Q.**, Whittemore, R. Redeker, N. (2016). Excessive daytime sleepiness in stroke survivors: An integrative review. *Biological Research Nursing*. doi:10.1177/1099800415625285.
10. **Ding, Q.**, Yehle, K. S., Edwards, N. E., & Griggs, R. R. (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 *Sensors*  
2022-Present *Journal of American Heart Association*  
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 inhibitor 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 E, 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, E. S., 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, E. S. 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.** M.P., Knauert, N.S. Redeker, & D. Samuel (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 26<sup>th</sup> Annual Scientific Sessions, Philadelphia, PA.
10. **Ding, Q.** & S. DeCrane (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

2021-Present Lead faculty, Data Science & Data Analytics in Public Health, Research, Education and Advocacy for Community Health (REACH)

- Lead site faculty supervisor for REACH program; brought together youth in U.S. and Middle East for online, face-to-face learning experiences in data science and analytics for public health. (Funded by Stevens Initiative).
- Responsible for designing and executing course curriculum, leading 20 Purdue Data Mine undergraduate students to pair up with students from Middle East in learning data science and designing algorithms that could be used in public health.

2019-Present Guest Lecturer, School of Health Sciences, Purdue University

- Present lectures on cardiovascular health to undergraduate public health course, "Principles of Public Health Science".

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

- Assist in teaching multiple graduate level courses, "Acute Illness: Adult Health Practice", "Acute Illness: Adult Health Preceptorship", "Chronic Illness and Commonly Recurring Conditions", "Clinical Applications of Pharmacotherapeutics".
- Create and deliver lectures on "Gerontology" and "Sleep Disorders Diagnosis and Management".

2015-2016 Graduate Teaching Fellow, Yale University, School of Nursing

- Assisted in teaching two graduate level courses, “Advanced Health Assessment Across the Lifespan” (2015) and “Health Promotion and Behavior Change” (2016).

2008 Teaching Assistant, Michigan State University, Department of Integrative Studies in Social Science

- Provided teaching support for undergraduate level course, “ Social Differentiation and Inequality”.

2003-2004 Teaching Assistant, Southwest Medical University, Department of Anatomy

- Provided teaching support for required first year medical school course, “Gross Anatomy, Regional Anatomy”.
- Responsible for preparing and providing instruction to students during cadaver laboratory sessions.

## **CLINICAL ACTIVITIES**

### **Certifications & Licenses**

2013-2023 Adult-Gerontology Primary Care Nurse Practitioner (AGPCNP-BC)

2010-2022 California RN License #792260

2010-2022 Michigan RN License #4704284273

2010-2022 Indiana RN License #28198257A

2010-2017 Advanced Cardiac Life Support (ACLS), American Heart Association

2009-2022 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 Supervisor: Drs. Brain Koo, Mark 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 studies interpretations, sleep disorders diagnosis and management in sleep clinics, dental department, 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. 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, ICU.
- 2006-2007 Intern in Internal Medicine, The 2nd Hospital of Yibin City, Sichuan, China.

### **Professional Affiliations**

- American Heart Association, Council on Cardiovascular and Stroke Nursing, and Council on Quality of Care and Outcomes Research
- American Diabetes Association
- American Academy of Sleep Medicine
- National League for Nursing
- American Association of Nurse Practitioner (AANP)
- Midwest Nursing Research Society
- Sigma Theta Tau International *Honor Society of Nursing*
- American Nurses Association

### **RECOGNITION**

#### **Honors and Awards**

- 2017-2018 & 2014-2015 McLeod-Blue-Skye Conference Travel Fellowship, Yale University
- 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
- 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 of Southwest Medical University, China

### **Invited Talks**

11/2021 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 9<sup>th</sup> Hongkong International Nursing Forum cum 1<sup>st</sup> 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 EXPERIENCE**

#### **Public Service**

2019-2021 Graduate Faculty Committee, School of Nursing, Purdue University, IN

2016-2017 Graduate and Professional Student Senate Senator, Yale University, CT

2016-2017 Mental Health and Counseling (MHC) Advisory Committee for Graduate & Professional Schools, 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, China

2007 Program Coordinator, Alfa Active Living for Adults, East Lansing, MI

2003-2006 Vice-President, College Student Association, Southwest Medical University, Sichuan, China

**Skills/Language Fluency/Interests**

- Analytical Skills: Coding in Python, SQL and Tableau, Advanced Statistical Analysis System (SAS) programming (survival analysis, longitudinal data analysis and cluster analysis), Data visualization using SPSS and Excel, Qualitative data analysis (ATLAS.ti, NVivo), Meta-analysis using R and Review Manager
- Foreign Language: Fluent in Chinese (Mandarin, Cantonese, four other Chinese Dialects), Japanese (reading)
- Interests: Reading; Writing; Hiking; Yoga; Fashion and Design; Amateur Dancer, Choreographer and Producer