

Curriculum Vitae

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Liming Huang, PhD

BUSINESS ADDRESS

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EDUCATION

2016 MS, Statistics, Temple University, Philadelphia
2013 PhD, Economics, Drexel University, Philadelphia
1993 MS, Economics, East China Normal University, Shanghai
1990 BS, Mathematical Statistics, East China Normal University, Shanghai

ACADEMIC POSITIONS

2008-2013 Teaching and Research Assistant, Drexel University Department of Economics, Philadelphia
1993-2003 Instructor, East China Normal University Department of Economics, Shanghai

RESEARCH POSITIONS

2023 Research Assistant Professor, University of Pennsylvania School of Nursing, Philadelphia
2016-2022 Biostatistician, University of Pennsylvania School of Nursing, Philadelphia

RESEARCH

Doctoral Dissertation

Two Essays on Trade Agreements: 1. On the relationship between Preferential and Multilateral Trade Agreements. 2. Do preferential Trade Agreements Affect Non-members' Tariffs? An Empirical Analysis
Dissertation Advisors: Constantinos Syropoulos, PhD, Yoto Yotov, PhD

Past/Present Funded Research

R01AG061945 (PI: Hodgson) 9/30/2018-5/31/2023
NIA
A Training and Fidelity Model to Move and Scale Evidence-based Dementia Care and Caregiver Support Programs into Practice: The Case for COPE in PACE service settings

This 5-year trial will develop and test a novel online training program will be compared to a usual training condition (high intensity face-to-face) using a non-inferiority randomized trial design. In addition we will develop a scalable approach to monitoring and ensuring “real world” fidelity of delivery in the community using computer linguistic technology. The two training conditions will be evaluated in terms of provider level outcomes (confidence in program delivery and mastery of COPE principles), fidelity adherence using the computationally derived methodology, and outcomes related to persons with dementia and family caregivers.

Role: statistician

1R01AG070351 (PI: Perez)

1/1/2020-12/31/2024

NIA

A Physical Activity Intervention to Promote Cognitive Health, Cardiovascular Health and Sleep in Older Latinos “Tiempo Juntos para la Salud” will address National Institute on Aging strategic goals by testing a Spanish-language, multilevel intervention, designed to promote moderate-intensity physical activity; theoretically grounded mediators; and secondary outcomes of cardiovascular health, sleep and cognitive function among older Latinos with Mild Cognitive Impairment (MCI). Guided by a socio-ecological framework, and in partnership with multicultural health centers, this community-based intervention uses a randomized controlled trial (RCT) design to test multilevel strategies: empowerment education for behavior change and individual motivation, social support networks, and culturally relevant community resources for safe walking.

Role: statistician

R01 (PI: McDonald)

4/3/2020-1/31/2024

Driving after Concussion

The goal is study driving behavior after concussion among teens.

Role: statistician

R01 NR015226-01 (PI: Hodgson)

8/17/2016-5/31/2021

NINR

The Role of Palliative Care Interventions to Reduce Circadian Rhythm Disorders in Persons with Dementia

This 5-year efficacy trial will test the “Healthy Patterns” intervention, a home-based activity intervention designed to improve symptoms of circadian rhythm disruption (CDR) and quality of life (QOL) in persons with dementia and their family caregivers. The success of the intervention will be determined by its impact on palliative outcomes including patient and caregiver measures of QOL as well as actigraphic, neuroendocrine, and proxy reported measures of CRD symptoms.

Role: statistician

Perelman School of Medicine PCOR Pilot Studies (PI: Naylor)

02/13/18-02/12/19

Primary Care within the University of Pennsylvania Health System: Assessment of Current Status

The objective of this study is to describe the health status and risks of adults attributed to the University of Pennsylvania Health System primary care practices, and the use of acute care health resources by these patients, both overall and within subpopulations. As well as a comprehensive assessment of care management strategies from the perspectives of patients, family caregivers and primary care clinicians.

Role: statistician

New Courtland Center for Transitions and Health (PI: Naylor)

7/1/2020-06/30/2022

Various projects on health related quality of life

Role: statistician

NINR R01AG051588 (PI: Kathy Richards)

approx. 02/2017-12/2018

Nighttime Agitation and Restless Legs Syndrome in People with Alzheimer's Disease

Role: Statistician;

NHLBI R01HL090615 (PI: Mark Fogel)

approx.. 05/2017-12/2018

Cerebral Anatomy, Hemodynamics and Metabolism in Single Ventricles: Relationship to Neurodevelopment

Role: statistician

PUBLICATIONS

Journal Articles: Research, Peer Reviewed (Chronological Order)

Hwang, Y., McPhillips, M.V., Huang, L., Perez, G. A., & Hodgson, N. A. (2023). Better caregiver mastery is associated with less anxiety in individuals with cognitive impairment. *BMC Nurs* 22, 307. <https://doi.org/10.1186/s12912-023-01471-x>

Wallace, L. G., Hirschman, K. B., Huang, L., Cacchione, P. Z., & Naylor, M. D. (2023). Hospitalizations, Emergency Department Visits, and Home Health Use Among Older Adults With Sensory Loss. *Journal of Aging and Health*, 0(0). <https://doi.org/10.1177/08982643231176669>

Paidipati, C. P., Alicia, J. L., West, J., Huang, L., Hanlon, A. L., Ulrich, C. M. (2023). Understanding the mediated relationship between moral distress, depression, and suicide risk in undergraduate nursing students. *Nursing Outlook*, 71 (3), 101966, ISSN 0029-6554, <https://doi.org/10.1016/j.outlook.2023.101966>

Goldman, A. S., Abbott, K. M., Huang, L., Naylor, M. D., & Hirschman, K. B. (2023). Changes in Tangible Social Support Over Time Among Older Adults Receiving Long-Term Services and Supports. *Journal of Applied Gerontology*, 42(5), 981-991. <https://doi.org/10.1177/07334648221150966>

Ulrich, C. M., Deatricks, J. A., Wool, J., Huang, L., Berlinger, N., & Grady, C. (2023). Ethical Challenges Experienced by Clinical Ethicists during COVID-19. *AJOB Empirical Bioethics*, 14:1, 1-14, DOI: 10.1080/23294515.2022.2110965

Ulrich C.M., Ratcliffe S.J., Zhou Q., Huang, L., Hochheimer, C., Gordon, T., Knafl, K., Miller, V., Naylor, M. D., Schapira, M. M., Richmond, T. S., Grady, C., Mao, J. J. (2022). Association of Perceived Benefit or Burden of Research Participation With Participants' Withdrawal From Cancer Clinical Trials. *JAMA Netw Open.*, 5(11):e2244412. doi:10.1001/jamanetworkopen.2022.44412

Lisanti, A. J., Min, J., Golfenshtein, N., Ravishankar, C., Costello, J. M., Huang, L., Fleck, D., Medoff-Cooper, B. (2022) New insights on growth trajectory in infants with complex congenital heart disease, *Journal of Pediatric Nursing*, 66 (23-29), ISSN 0882-5963, <https://doi.org/10.1016/j.pedn.2022.05.003>

Hanlon, A.L., Pauly, M.V., Huang, L., Lozano, A.J., Hirschman, K.B., McCauley, K., Press, M, Naylor, M.D. (2022) Medical Complexity Mediates Healthcare Resource Use in the Socially Vulnerable. *J Healthc Manag.*, 67(3):173-191. doi: 10.1097/JHM-D-21-00072. PMID: 35576444; PMCID: PMC9798383

Lisanti, A.J., Golfenshtein, N., Marino, B.S., Huang, L., Hanlon, A. L., Lozano, A. J., Curley, M. A.Q., and Medoff-Cooper, B. (2022) Quality of Life of Mothers of Infants Subjected to Neonatal Cardiac Surgery: The Importance of Psychosocial Factors. *World Journal for Pediatric and Congenital Heart Surgery*, 13(3):324-331. doi:10.1177/21501351221088832

Sefcik, J. S., Petrovsky, D. V., Huang, L., Behrens, L. L., Naylor, M. D., Hodgson, N. A., Hirschman, K. B. (2022) Predictors of change over time in satisfaction with outdoor activities ratings among long-term care services and supports recipients, *Geriatric Nursing*, Volume 45, Pages 153-159, ISSN 0197-4572, <https://doi.org/10.1016/j.gerinurse.2022.03.007>

Hodgson, N. A., Gooneratne, N., Perez, A., Talwar, S., & Huang, L. (2021). A timed activity protocol to address sleep-wake disorders in home dwelling persons living with dementia: The healthy patterns clinical trial. *BMC Geriatrics*, 21(1) doi:10.1186/s12877-021-02397-2

- Starr, L. T., Ulrich, C. M., Junker, P., Huang, L., O'Connor, N. R., & Meghani, S. H. (2020). Patient risk factor profiles associated with the timing of goals-of-care consultation before death: A classification and regression tree analysis. *American Journal of Hospice and Palliative Medicine*, 37(10), 767-778. doi:10.1177/1049909120934292
- Cooper, B. M., Marino, B. S., Fleck, D. A., Lisanti, A. J., Golfenshtein, N., Ravishankar, C., Costello, J., Huang, L., Hanlon, A. L., Curley, M. A. Q. (2020). Telehealth home monitoring and postcardiac surgery for congenital heart disease. *Pediatrics*, 146(3) doi:10.1542/PEDS.2020-0531
- Petrovsky, D. V., Hirschman, K. B., Varrasse McPhillips, M., Sefcik, J. S., Hanlon, A. L., Huang, L., Naylor, M. D. (2020). Predictors of change over time in subjective daytime sleepiness among older adult recipients of long-term services and supports. *International Psychogeriatrics*, 32(7), 849-861. doi:10.1017/S1041610220000782
- Hirschman, K. B., Toles, M. P., Hanlon, A. L., Huang, L., & Naylor, M. D. (2020). What predicts health care transitions for older adults following introduction of LTSS? *Journal of Applied Gerontology*, 39(7), 702-711. doi:10.1177/0733464819833565
- Patterson, F., Mitchell, J. A., Dominick, G., Lozano, A. J., Huang, L., & Hanlon, A. L. (2020). Does meeting physical activity recommendations ameliorate association between television viewing with cardiovascular disease risk? A cross-sectional, population-based analysis. *BMJ Open*, 10(6) doi:10.1136/bmjopen-2019-036507
- Chase, J. D., Russell, D., Huang, L., Hanlon, A., O'Connor, M., & Bowles, K. H. (2020). Relationships between Race/Ethnicity and health care utilization among older post-acute home health care patients. *Journal of Applied Gerontology*, 39(2), 201-213. doi:10.1177/0733464818758453
- Travers, J. L., Hirschman, K. B., Hanlon, A. L., Huang, L., & Naylor, M. D. (2020). Factors associated with perceived worsened physical health among older adults who are newly enrolled long-term services and supports recipients. *Inquiry (United States)*, 57 doi:10.1177/0046958019900835
- Brewster, G. S., Hirschman, K. B., Riegel, B. J., Hanlon, A. L., Huang, L., McPhillips, M. V., Abbott, K. M., Naylor, M. D. (2019). Association of health related quality of life domains with daytime sleepiness among elderly recipients of long-term services and supports. *Geriatric Nursing*, 40(4), 417-423. doi:10.1016/j.gerinurse.2019.01.006
- Greene, M. Z., Hughes, T. L., Hanlon, A., Huang, L., Sommers, M. S., & Meghani, S. H. (2019). Predicting cervical cancer screening among sexual minority women using classification and regression tree analysis. *Preventive Medicine Reports*, 13, 153-159. doi:10.1016/j.pmedr.2018.11.007
- Riegel, B., Huang, L., Mikkelsen, M. E., Kutney-Lee, A., Hanlon, A. L., Murtaugh, C. M., & Bowles, K. H. (2019). Early post-intensive care syndrome among older adult sepsis survivors receiving home care. *Journal of the American Geriatrics Society*, 67(3), 520-526. doi:10.1111/jgs.15691
- Varas-Díaz, N., Betancourt-Díaz, E., Lozano, A. J., Huang, L., Dinapoli, L., Hanlon, A., & Villarruel, A. M. (2019). Testing the efficacy of a web-based parent-adolescent sexual communication intervention among puertoricans. *Family and Community Health*, 42(1), 30-43. doi:10.1097/FCH.0000000000000209
- Chase, J. D., Hirschman, K. B., Hanlon, A. L., Huang, L., Bowles, K. H., & Naylor, M. D. (2018). Physical functioning among older adults new to long-term services and supports. *Gerontologist*, 58(6), 1147-1155. doi:10.1093/geront/gnx082
- Chase, J. D., Huang, L., Russell, D., Hanlon, A., O'Connor, M., Robinson, K. M., & Bowles, K. H. (2018). Racial/ethnic disparities in disability outcomes among post-acute home care patients. *Journal of Aging and Health*, 30(9), 1406-1426. doi:10.1177/0898264317717851

Pauly, M. V., Hirschman, K. B., Hanlon, A. L., Huang, L., Bowles, K. H., Bradway, C., McCauley, K., Naylor, M. D. (2018). Cost impact of the transitional care model for hospitalized cognitively impaired older adults. *Journal of Comparative Effectiveness Research*, 7(9), 913-922. doi:10.2217/cer-2018-0040

Patterson, F., Lozano, A., Huang, L., Perkett, M., Beeson, J., & Hanlon, A. (2018). Towards a demographic risk profile for sedentary behaviours in middle-aged British adults: A cross-sectional population study. *BMJ Open*, 8(7) doi:10.1136/bmjopen-2017-019639

Hanlon, A., Small, W., Strauss, J., Lin, L. L., Hanisch, L., Huang, L., Bai, J., Wells, J., Bruner, D. W. (2018). Dilator use after vaginal brachytherapy for endometrial cancer: A randomized feasibility and adherence study. *Cancer Nursing*, 41(3), 200-209. doi:10.1097/NCC.0000000000000500

CONSULTATION: RESEARCH/EDUCATIONAL

Tarik Khan. Title: “*The Effect of a Transitional Care Model Intervention on the Self-Efficacy of Family Caregivers of Hospitalized Older Adults with Cognitive Impairment*”, 2021.

Onome H. Osokpo. Title: “*The influence of social network on self-care of African immigrants with chronic diseases*”, 2022.

Onome H. Osokpo. Title: “*The relationship between SDoH factors and overall quality of life ratings among older adults new to LTSS*”, 2022.

Laura G Wallace. Title: “*Hospital, Emergency Department, and Home Health Use in Older Adults with Sensory Impairment*”, 2021-2022.

Sooyoung Park. Title: “*Cardiovascular Disease Risk Prediction in South Korea: The National Health Insurance Service-National Health Screening Cohort*”, 2021.

Justine S. Sefcik. Title: “*Predictors of Change Over Time in Satisfaction with Outdoor Activity Ratings among Long-Term Care Services and Supports Recipients*”, 2021.

Stephen Perez. Title: “*The Impact of State-based Mandatory Reporting on Laboratory Identified Clostridium difficile and Methicillin Resistant Staphylococcus aureus in Acute Care Hospitals across the U.S.*”, 2017

Stephen Perez. Title: “*Examining the Relationship between the Mandatory Reporting of Healthcare-Associated Infections and Organizational Climate in U.S. Hospitals: Implications for Policy and Organizations*”, 2017

Darina Petrovsky. Title: “*The relationship between musical sophistication, cognitive abilities and neurodegenerative pathology in older adults with mild cognitive impairment*”, 2017

James Stephens. Title: “*Development of a predictive model for frequency of falling and severity of injury from falls using EMR data and a falls database developed within the LIFE UPenn Program*”, 2016