

CURRICULUM VITAE

ZHAN LIANG, PhD, MSN, RN

EDUCATION

Doctor of Philosophy in Nursing, 2015, University of Pittsburgh, School of Nursing, Pittsburgh, PA

Master of Science in Nursing, 2013, University of Pittsburgh, School of Nursing, Pittsburgh, PA

Bachelor of Science in Nursing, 2007, Guangzhou Medical University, Guangdong, China

WORK EXPERIENCE

Academic

August 2018 - present Assistant Professor, University of Miami, School of Nursing and Health Studies, Miami, FL

August 2015 – August 2018 Assistant Professor, University of South Florida, College of Nursing, Tampa, FL

2010 - 2015 Teaching Fellow, University of Pittsburgh, School of Nursing, Pittsburgh, PA

2012 - 2013 Teaching Fellow, University of Pittsburgh Center for Instructional Development and Distant Education (CIDDE)

Clinical

2012 Staff Nurse, Select Specialty Hospital in University of Pittsburgh Medical Center (UPMC) Montefiore, Pittsburgh, PA

2010 - 2012 Clinical Practicums (MICU, ICU Step-down Units, Palliative Care Support Center, UPMC , Pittsburgh, PA

2008 - 2009 Staff Nurse, Macau University Hospital, Macau, China

2007 - 2008 Staff Nurse (Emergency Department), 1st Affiliated Hospital of Guangzhou Medical University, Guangdong, China

RESEARCH AND AWARDS

Funded

Role: Principal investigator

2019-2020

Funding agency: American Thoracic Society Foundation

Title: Music-Enhanced Physical Exercise for ICU Survivors
Type: Nursing Research Award
Award: \$10,000

Role: Principal investigator 2019-2020
Funding agency: University of Miami
Title: Exercise with Music: A Self-Management Exercise Program for ICU Survivors
Type: Provost Award
Award: Salary Support (\$10,000) + \$5,000

Role: Principal investigator 2019-2020
Funding agency: University of Miami School of Nursing and Health Studies
Title: Exercise with Music Study
Type: Dean's Research Award
Award: \$7500

Role: Co-investigator (10%) 12/09/2016 – 11/30/2020
Funding agency: National Institute of Nursing Research
Title: Reorientation Intervention for Delirium in the ICU
Type: R01
Award: \$2,025,658

Role: Principal investigator 2016 – 2017
Funding agency: University of South Florida
Title: Effect of Patient Directed Music Intervention on Weaning from Prolonged Mechanical Ventilation in a Long Term Acute Care Hospital – A Pilot Project
Type: Faculty Research Pilot Project Program
Award: \$7,500

Role: Principal investigator 2012 – 2014
Funding agency: University of Pittsburgh
Title: Effect of Patient Directed Music Intervention on Weaning from Prolonged Mechanical Ventilation in a Long Term Acute Care Hospital
Type: Leslie A. Hoffman Endowed Acute Care Research Funding
Award: \$3,900

Role: Principal investigator 2012 – 2013
Funding agency: Nursing Foundation of Pennsylvania
Title: Effect of Patient Directed Music Intervention on Weaning from Prolonged Mechanical Ventilation in a Long Term Acute Care Hospital
Type: Pauline Thompson Clinical Nursing Research Award
Award: \$2,000

Role: Co-investigator 2012 – 2013
Funding agency: University of Pittsburgh Medical Center
Title: Tele-Communication and Deliberate Nurse-Led Rounding: Nursing Quality Improvement Project
Type: Beckwith Institute Innovation Research Funding
Award: \$20,000

Role: Principal investigator 2008-2009
Funding agency: Health Department of Guangdong Province
Title: Problem Based Learning. Funded by Clinical Application of Medical English Research Award
Type: Innovative Research Program
Award: RMB50,000 ≈ \$9,000

Submitted

Role: Principal investigator 2019-2020
Funding agency: National Institute of Nursing Research
Title: Exercise with Music: A Self-Management Exercise Program for ICU Survivors
Type: R21
Award: \$275,000 (Impact Score 53)

Awards

- 2015 American Thoracic Society Abstract Scholarship (\$500)
- 2014 Highest Score at the 4th Annual Scholarly Poster Presentation Symposium
- 2014 American Thoracic Society Scholarship (\$500)
- 2012 American Thoracic Society Scholarship (\$500)
- 2004-2006 Award for Academic Excellence in consecutive five semester (ranked top 5 out of 100 students) at Guangzhou Medical University (RMB2000 ≈ \$500/semester)

PUBLICATIONS (*=Data-based, ◆=Invited)

1. *Munro, C.L., **Liang, Z.**, Emechebe, N., Chen, X., Cairns, P., Manani, P., Hamilton, L., Good, G., Kip, K. (2019). Evaluation of an Automated Digital Scoring System of Dental Plaque. Journal of Dental Research. (under review)
2. *Cairns, P., Buck, H., Kip, K., Rodriguez, C., **Liang, Z.**, Munro, C.L. (2019). Stress Management Intervention for Family Caregivers to Prevent Post Intensive Care Syndrome-Family: A Randomized Feasibility Study. American Journal of Critical Care. (under review)
3. *Cairns, P., Kip, K., Rodriguez, C., **Liang, Z.**, Bugajski, A., Buck, H., Munro, C.L. (2019). Identifying and Measuring Mechanisms that Underlie Behavioral Patterns of Post Intensive Care Syndrome-Family in Spouses of Critically Ill, Mechanically Ventilated Patients with NIH Toolbox Emotion Battery: A Randomized Pilot Study. Critical Care Medicine. (under review)
4. *Elias, M.N., Munro, C.L., **Liang, Z.**, Calero, K., Ji, M. (2018). Sleep and ICU-Acquired Weakness in Critically Ill Older Adults. Dimensions of Critical Care Nursing. NIHMS1508113.
5. *Munro, C.L., **Liang, Z.**, Cairns, P., Hamilton, L., Chen, X., Kip, K. (2018) Optimal Frequency of Tooth Brushing in Mechanically Ventilated Adults: Study Protocol for a Randomized Controlled Trial. Research in Nursing & Health. 2018, 1-8.

6. *Munro, C., Cairns, P., Ming, J., Calero, K., **Liang, Z.**, Anderson, W.M. (2017) Delirium Prevention in Critically Ill Adults through an Automated Reorientation Intervention- A Pilot Randomized Controlled Trial. *Heart & Lung*. 2017 Jun 9. pii:S0147-9563(16)30306-5. PubMed PMID: 28606450.
7. ***Liang, Z.**, Ren, D.X., Choi, J.Y., Happ, M.B., Hravnak, M., Hoffman, L. (2016). Effect of Music Intervention during Daily Weaning Trials in Patients on Prolonged Mechanical Ventilation in a Long Term Acute Care Hospital – a 6 Days Intervention. *Complementary Therapy Medicine*, 29(2016), 72-77.
8. ♦ **Liang, Z.**, Choi, J.Y. (2016). Challenges for ICU Survivors and Their Caregivers. *Respiratory Care*, 61 (4), 566-568.
9. ***Liang, Z.**, Hoffman, L., Nouraie, M., Kass, D., Donahoe, M., Gibson, K.F., Saul, M., Lindell, K.O. (2016). Referral to Palliative Care Infrequent in Patients with Idiopathic Pulmonary Fibrosis Admitted to an Intensive Care Unit. *Journal of Palliative Medicine*, 20(2), DOI: 10.1089/jpm.2016.0258.
10. Swigart, V., **Liang Z.** Digital Resources for Nursing Education: Open Courseware and Massive Open Online Courses. (2016). *International Journal of Nursing Sciences*. 3 (3), 307–13.
11. ***Liang, Z.**, Hopkins, K.G., Ren, D., & Blazeck, A. (2015). Effect of Deliberate Perfect Practices Videos in Skills Acquisition. *International journal of nursing education and research*, 3(4), 243-246.
12. *Usher, B., Jeanine, J., Ren, D.X., **Liang, Z.**, Tuite, P. (2015) Development of End-of-Life Peer Nurse Coaches: A Hospital-Based Quality Improvement Project. *Journal of Hospice and Palliative Care Nursing*. 17(6), 551-558.
13. *Wang, W., **Liang, Z.**, Blazeck, A., Jia, S. (2015). Improving Chinese Nursing Students' Communication Skills By Utilizing Video-Stimulated Recall And Role-Play Case Scenarios To Introduce Them To The SBAR Technique. *Nursing Education Today*. 35(7), 881-887.
14. ***Liang, Z.**, Jeanine, J., Ren, D.X., Tuite, P., Usher, B. (2015). Evaluation of a Peer Nurse Coach Quality Improvement Project on New Nurse Hire Attitudes Toward Care for the Dying. *Journal of Hospice and Palliative Nursing*, 18(5), 398-404.
15. *Yeh, C.H., Suen, L.K.P., Chien, L.C., Shen, J., Hoffman, S., **Liang, Z.**, Glick, R., Morone, N.E., Chasens, E., (2015). Sleep Change of Auricular Point Acupressure for Chronic Low Back Pain: A Prospective Randomized Controlled Clinical Trial. *Behavioral Sleep Medicine*, 5, 1-16.
16. *Yeh, C.H., Chien, L.C., Morone, N.E., Bhatnagar, S., Hoffman, S., **Liang, Z.**, Glick, R. (2015). Day-to-Day Changes of Auricular Point Acupressure to Manage Chronic Low Back Pain: A 29 Days Randomized Control Study. *Pain Medicine*, 16(10):1857-69.
17. *Yeh, C.H., Chiang, Y.C., Hoffman, S., **Liang, Z.**, Klem, M.L., Tam, W.S., Chien, L.C., Suen, L.K.P. (2014). Efficacy of Auricular Therapy for Pain Management: A Systematic Review and

Meta-analysis. Evidence-Based Complementary and Alternative Medicine. vol. 2014, Article ID 934670, 14 pages, 2014. doi:10.1155/2014/934670

18. *Yeh, C.H., Morone, N.E., Chien, L.C., Chao, Y., Lu, H., Shen, Juan., Morgolia, L., Bhatnagar, S., Primavera, J., Hoffman, S., **Liang, Z.**, Glick, R., Albers, K.M., Suen, L.K.P. (2014). Auricular Point Acupressure to Manage Chronic Low Back Pain in Older Adults: A Randomized Controlled Pilot Study. Evidence Based Complement Alternative Medicine, 2014, 375173. doi: 10.1155/2014/375173
19. *Lindell, K. O., **Liang, Z.**, Hoffman, L. A., Rosenzweig, M. Q., Saul, M. I., Pilewski, J. M., . . . Kaminski, N. (2014). Palliative Care and Location of Death in Decedents with Idiopathic Pulmonary Fibrosis. Chest. doi: 10.1378/chest.14-1127

PRESENTATIONS

International

1. **Liang, Z.**, Lindell, K.O., Hoffman, L.A., Saul, M., Kaminski, N., Gibson, K.F. (2016) Palliative care referral infrequent in patients with idiopathic pulmonary fibrosis admitted to the intensive care unit. Poster Discussion Session at the American Thoracic Society International Conference 2016.
2. **Liang, Z.**, Yeh, C.H., Happ, M.B., Choi, J.Y., Ren, D.X., Hoffmann, R., Hravnak, M., Hoffman, L.A. (2015) Effect of Music Intervention during Daily Weaning Trials in Patients on Prolonged Mechanical Ventilation. **Oral Presentation** at the American Thoracic Society International Conference, Denver, Colorado.
3. **Liang, Z.**, Lindell, K.O., Hoffman, L.A., Saul, M., Kaminski, N., Gibson, K.F. (2014) Characteristics Associated With ICU Admission In A Cohort Of Patients With IPF. Poster Discussion Session at the American Thoracic Society International Conference, San Diego, CA.
4. Lindell, K.O., **Liang, Z.**, Hoffman, L.A., Rosenzweig, M.Q., Saul, M., Pilewski, J.M., Gibson, K.F., Kaminski, N. (2014) Palliative Care and Location of Death in Decedents with Idiopathic Pulmonary Fibrosis. Poster Presentation at the American Thoracic Society International Conference, San Diego, CA.
5. **Liang, Z.**, Choi, J.Y., Ren, D.X., Elcokany, N.M., Hoffman, L.A. (2013) Using Music to Promote Weaning from Prolonged Mechanical Ventilation. **Oral Presentation** at the American Thoracic Society 2013 International Conference, Philadelphia, PA.
6. **Liang, Z.**, Hoffman, L.A., Tate, J., Ren, D., Happ, M.B. (2012) Relationship between Communication Ability and Clinical Outcome in Mechanically Ventilated Patients. Poster Presentation at the American Thoracic Society International Conference, San Francisco, CA.

National

1. Cairns, P., **Liang, Z.**, Munro, C. (2017). Family Experience in ICU Research: A Novel Family-Centered Intervention for ICU Delirium. Southern Nurse Research Society. Poster Discussion.

2. Munro, C., Cairns, P., Ji, M., Calero, K., **Liang, Z.**, Anderson, M.W. (2016). Automated Reorientation Intervention to Reduce Delirium in Critically Ill Adults. Council on the Advancement of Nursing Science (CANS). Poster Presentation.
3. **Liang, Z.**, Sereika, S., Rosenzweig, M. (2014) Longitudinal Quality of Life and Subsequent Adherence and Persistence to Breast Cancer Chemotherapy among African American Women. Poster presentation at State of the Science Congress on Nursing Research. Washington, DC.
4. McGoldrick, E., **Liang, Z.**, DiNella, J., Usher, B. (2014) Effectiveness of a Peer Nurse Coach Model on End-of-Life Care Education. Poster Presentation at the National Conference on Undergraduate Research 2014, Washington, DC.
5. Wang, W., **Liang, Z.**, Blazeck, A., Jia, S.M. (2014) Using Video-Stimulated Recall and Role-Play Case Scenarios to Improve International Nursing Students' Communication Skills. Poster Presentation at Duke University, Durham, NC.
6. **Liang, Z.**, Hoffman, L.A., Ren, D., Hopkins, K.G., Blazeck, A. (2012) Deliberate Perfect Practice Videos in Low Fidelity Simulation: Effect on Student Self-Efficacy & Competency. Poster Presentation at 5th Annual WISER Symposium on Nursing Simulation. Pittsburgh, PA.
7. **Liang, Z.**, Hopkins, K.G., Hoffman, L.A., Barbara, U.M. (2012) Perception of Nurses toward Providing End-of-Life Care. Poster Presentation at State of the Science Congress on Nursing Research. Washington, DC. Abstract website: <http://www.epostersonline.com/cans/2012/abstracts/>. (Abstract #680).

Regional/Local

1. **Liang, Z.**, Yeh, C.H., Happ, M.B., Choi, J.Y., Ren, D.X., Hoffmann, R., Hravnak, M., Hoffman, L.A. (2016). Effect of Music Intervention during Weaning Trials in a Long Term Acute Care Hospital – A 6 Day Prospective Randomized Crossover Trial. Poster Presentation At SNRS Conference 2016
2. **Liang, Z.**, Sereika, S., Rosenzweig, M. (2014) Longitudinal Quality of Life and Subsequent Adherence and Persistence to Breast Cancer Chemotherapy among African American Women. Poster Presentation at 5th annual WISER Symposium on Nursing Simulation, Pittsburgh PA. Awarded as highest score post presentation.
3. Hopkins K.G., **Liang, Z.**, Ren, D., Blazeck, A. (2012) A Six Years Study in the Effect of Standard and Focused Simulation Training on Nursing Students. Poster Presentation at 5th annual WISER symposium on Nursing Simulation, Pittsburgh PA.
4. **Liang, Z.**, Hopkins K.G., Ren, D., Blazeck, A. (2012) The Effect of Standard and Focused Simulation Training on Nursing Students' Self-efficacy. Poster Presentation at PA State Nurses Association "Best Practices" Conference, Summerdale PA.

TEACHING

University of Miami School of Nursing and Health Studies

Primary Teacher

2018 (Fall) NUR 400, Nursing Theories, Research and Evidence-Based Practice

University of South Florida College of Nursing**Primary Teacher**

2015-2018 NUR 4169, EBP for Baccalaureate

2016 (Fall) NGR 7974, DNP Project

Guest Lecture

2015 NGR 7938 Innovative Programs in Symptom Management Research

University of Pittsburgh School of Nursing**Teaching Fellow**

2012-2013 Massive Online Open Course (MOOC), Clinical Terminology for International and U.S. Students. Participated in development and implementation. Course continues to serve thousands of students over the globe. Available at <https://www.coursera.org/learn/clinical-terminology>

2012 NUR 0080, Foundations of Nursing Practice I, Clinical Instructor

2010-2012 NUR 0080, NUR0081 Foundations of Nursing Practice I & II
2013-2014

Guest Lecture

2012-2015 NUR 0082 Nursing Management of the Adult with Acute/Chronic Illness

2014 NUR 2011 Applied Statistics for EBP

STUDENT MENTORING and CONSULTATION**Undergraduate Students**

2013-2014	Eliza C. McGoldrick BSN Sophomore Student	Undergraduate Research Mentor Abstract Accepted for the National Conference on Undergraduate Research (NCUR) 2014
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2014-2015	Eileen M. Hilley BSN Junior Student	Undergraduate Research Mentor Abstract Accepted for the National Conference on Undergraduate Research (NCUR) 2015
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Graduate Students

2017- present	Paula Cairns PhD student	Committee member Prevention of post ICU syndrome family (PICS-F) with SAF-T intervention.
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2017-present	Maya Elias PhD student	Committee member The Relationship Between Sleep Quality and Motor Function in Hospitalized Older Adult Survivors of Critical Illness.
2015-2016	Amy C. Franklin DNP	Utilizing music to reduce an adult dermatology patients' pre-procedural anxiety
2015-2016	Eva Daniel DNP	Utilizing music to reduce an adult dermatology patients' pre-procedural anxiety
2013-2014	Jeanine DiNella DNP	Consultant Data recruitment, data analysis, manuscript writing
2014	Carol Burgman Student Working Towards Master of Social Work	Consultant Data analysis, manuscript writing

OTHER SCHOLARLY ACTIVITIES

Manuscript Reviewer

2016	The New England Journal of Medicine (NEJM) Open Forum Featured Expert
2015 – present	Respiratory Care
2015 – present	Heart & Lung, the Journal of Acute and Critical Care;
2015 – present	The Journal of Acute and Critical Care.

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

2017	Chair, PhD Committee
2017 - 2018	OUR Faculty Advisory Committee
2015 - 2018	PhD and undergraduate Committee
2016 - 2017	Southern Nurse Research Society
2011 - Present	American Thoracic Society
2012 - 2014	Pennsylvania State Nurse Association

Volunteer

2012-present	Editor, Clinical Terminology (Multi-lingual Online Medical Dictionary for Beginning Students). Available at http://www.clinicalterminology.org/home.php
2011-2012	University of Pittsburgh Medical Center Presbyterian Hospital - Emergency Department
2010-2013	University of Pittsburgh Office of International Service Mentor

CERTIFICATION

2015-present Florida Registered Nurse License