

JIANGHONG LIU, PH.D.

BUSINESS ADDRESS

University of Pennsylvania School of Nursing
Department of Family and Community Health
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EDUCATION

1998-2002 Ph.D. in Nursing
University of California Los Angeles, School of Nursing
Dissertation Title: “*Early Health and Social Risk Factors for Later Childhood Externalizing Behavior*”
Mentor: Anne Wuerker
Sponsor: NIH/NINR F31

1993 MSN in Maternal and Child Health Nursing
University of California Los Angeles, School of Nursing

1987 Advanced Nursing Diploma (Equivalent to BSN)
Nanjing Medical University, Nanjing, China

POSTGRADUATE TRAINING AND FELLOWSHIPS

2002-2005 NIH/NINR F32 Postdoctoral Fellow
Department of Psychology, University of Southern California, Los Angeles CA
Mentor: Sarnoff Mednick

PROFESSIONAL EXPERIENCE

2018-Present **Professor**, University of Pennsylvania School of Nursing
Marjorie O. Rendell Endowed Professor in Healthy Transitions (since 2020)
Professor, Master of Public Health Program, Perelman School of Medicine
Faculty Director, Global Health Minor for Undergraduate Students
Senior Fellow, Center of Public Health Initiatives
Member, Center of Excellence in Environmental Toxicology
Member, Penn Wharton China Center

2012 – 2018 **Associate Professor**, University of Pennsylvania School of Nursing
Faculty Director, Global Health Minor for Undergraduate Students

2007 – 2011 **Assistant Professor**, Department of Family and Community Health, School of Nursing
Co-Director, Occupational and Environmental Health Minor for Graduate Student

2005 – 2007 **Assistant Research Professor**, Department of Psychology, University of Southern California, Los Angeles, CA

1994 – 2007 **Assistant, Associate, and full Professor**, Department of Nursing, Health, and Occupation, Los Angeles Trade-Tech College, Los Angeles, CA

1994 – 1998 **Clinical Pediatric Nursing Instructor**, Mount St. Mary's College, Los Angeles, CA

1991-1994 **Clinical Nurse (Pediatric)**
UCLA Medical Center

CERTIFICATION/LICENSURE

Registered Nurse California

HONORS, AWARDS, AND MEMBERSHIPS IN HONORARY SOCIETIES

2023 **International Nurse Researcher Hall of Fame--** Sigma

2018 **Trustees Council of Penn Women Award for Undergraduate Advising,** University of Pennsylvania

2017 **Barbara J. Lowery Doctoral Student Organization Faculty Award for Mentorship,** School of Nursing, University of Pennsylvania

2015 **Department Research Award,** Department of Family and Community Health, School of Nursing, University of Pennsylvania

2013 **Department Research Award,** Department of Family and Community Health, School of Nursing, University of Pennsylvania

2010 **American Academy of Nursing Fellow,** American Academy of Nursing

2009 **Dean's Award for Undergraduate Scholarly Mentorship,** School of Nursing, University of Pennsylvania

2000 **Member,** Sigma Theta Tau International, member ID: 0352755.

GRANTS

Active Support – Research

03/01/2023-
02/29/2024 *Mindfulness-Based Online Qigong exercise for suicide prevention in older Chinese immigrants*
University Research Foundation (URF), University of Pennsylvania. \$73,076
Role: Principal Investigator

08/01/2017-
08/31/2023 *Omega-3 supplementation to both parent and adolescent to reduce behavior problems.*
5R01HD087485-03 (Raine/Liu). Eunice Kennedy Shriver National Institute of Child Health & Human Development, NIH. \$2,610,307.
Role: DU-Principal Investigator

Active Support – Education (mentoring grants)

2022-
2023 *Improving Asian American's Well-being Through Community Baduanjin Qigong Exercise*

ASAM Fellows Program (Student: Yuting Zhu). Asian American Studies Program, University of Pennsylvania. \$1500.

Role: Faculty Mentor

2022-
2023 *Understanding Asian American's Psychosocial Well-being and Community Baduanjin Exercise*
ASAM Fellows Program (Student: Yi Yang). Asian American Studies Program, University of Pennsylvania. \$1500.

Role: Faculty Mentor

2022-
2023 *Air pollution exposure, cognitive deficits, and brain imaging outcomes*
STEER (Student: Aurora Yuan). Perelman School of Medicine, CEET, University of Pennsylvania. \$4000.

Role: Faculty Mentor

2022-
2023 *The association between air pollutants and Cortical Thickness from Neuroimaging*
STEER (Student: Rahma Osman). Perelman School of Medicine, CEET, University of Pennsylvania. \$4000.

Role: Faculty Mentor

8/15/2022- *Penn Global Seminar: Exploring Traditional Chinese Medicine*

1/10/2023 Penn Global Education Grant. Office of the Vice Provost for Global Initiatives, University of Pennsylvania. \$40,000.

Role: Faculty Director

Past Support – Research

2018-2021 *Prenatal/Postnatal Secondhand Smoking Exposure, Cognitive Deficit and Adolescent Externalizing Behavior.*
Penn China Research and Engagement Fund. Penn Global, University of Pennsylvania.
Role: Principal Investigator

10/01/2018-
09/30/2021 *Prenatal Air Pollution Exposures and Early Childhood Outcomes*
NSF SES-1756738 (Hannum). National Science Foundation. \$319,999.
Role: Co-Investigator

08/01/2019-
07/31/2021 *Portable device for ultra-sensitive determination of heavy metals in whole blood*
Department of Defense, CDMRP. (Jing) \$272,581
Role: Principal Investigator

2018-2019 *Environmental toxicity, sleep and mental health outcomes*
Pilot Grant. Office of Nursing Research, School of Nursing, University of Pennsylvania. \$15,000.
Role: Principal Investigator

12/01/2017-
12/01/2018 *Lead Exposure, Sleep Disturbances, and Behavioral Problems*
Pilot Grant. Center of Excellence in Environmental Toxicology, University of Pennsylvania. \$50,000.
Role: Principal Investigator

09/08/2010-
05/01/2017 *Lead exposure, externalizing behavior, and neurobiological mediating factors*
R01ES018858 (Liu). National Institute of Environmental Health Sciences, NIH. \$1,730,000.
Role: Principal Investigator

09/01/2011-
04/30/2017 *Mechanisms that mediate the link between lead exposure and child behavior problem*

K02ES019878 (Liu). National Institute of Environmental Health Sciences, NIH. \$779,000.
 Role: Principal Investigator

06/01/2014-08/31/2014 *Lead exposure, externalizing behavior, and neurobiological mediating factors*
 Summer Research Experiences for Students Administrative Supplement. National Institute of Environmental Health Sciences, NIH. \$11,000.
 Role: Principal Investigator

06/01/2013-08/31/2013 *Lead exposure, externalizing behavior, and neurobiological mediating factors*
 Summer Research Experiences for Students Administrative Supplement. National Institute of Environmental Health Sciences, NIH. \$11,000.
 Role: Principal Investigator

07/01/2010-12/31/2012 *Graduate education in occupational environmental health*
 T01OH008417 (Liu). Centers for Disease Control and Prevention. \$166,400.
 Role: Co-Principal Investigator

01/01/2008-12/31/2012 *Biosocial Prediction and Prevention of Childhood Aggression*
 Pennsylvania Department of Health. \$3,941,025.
 Role: Co-Investigator

06/01/2011-08/31/2011 *Lead exposure, externalizing behavior, and neurobiological mediating factors*
 Summer Research Experiences for Students Administrative Supplement. National Institute of Environmental Health Sciences, NIH. \$11,000.
 Role: Principal Investigator

01/15/2007-08/31/2011 *Environmental toxicity, Malnutrition and Children's Externalizing Behavior*
 K02ES015877 (Liu). National Institute of Environmental Health Sciences, NIH. \$506,648.
 Role: Principal Investigator

09/01/2009-08/31/2011 *Environmental toxicity, Malnutrition and Children's Externalizing Behavior*
 Administrative Supplement. National Institute of Environmental Health Sciences, NIH. \$98,900.
 Role: Principal Investigator

09/09/2003-09/08/2006 *Biosocial risk factors for child behavior problems*
 F32NR008661 (Liu). National Institute of Nursing Research, NIH. \$155,352.
 Role: Principal Investigator

01/01/2004-12/31/2005 *The influence of high lead and low micronutrients on children's externalizing behavior*
 Pilot Grant. Wacker Foundation. \$10,000.
 Role: Principal Investigator

10/01/2000-10/01/2003 *Early health risk factors and child aggression*
 F31NR007518 (Liu). National Institute of Nursing Research, NIH. \$57,000.
 Role: Principal Investigator

Past Support – Education

2021-2022 *Early health factors and children's neurobehavioral outcomes*
 PURM (Student: Jan Magielski). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$4500.
 Role: Faculty Mentor

2021-2022 *Interactions among social adversity and environmental exposures in children's behavioral outcomes*
 STEER (Student: Meg Gladieux). Perelman School of Medicine, CEET, University of Pennsylvania. \$4000.
 Role: Faculty Mentor

- 2021-2022 *Prenatal and postnatal tobacco exposure and children's behavior problems*
STEER (Student: Leah Ragno). Perelman School of Medicine, CEET, University of Pennsylvania. \$4000.
Role: Faculty Mentor
- 2020-2021 *Social Adversity, Lead, and Children's Behavioral Outcomes*
PURM (Student: Meg Gladieux). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$4500.
Role: Faculty Mentor
- 2020-2021 *Lead-related dietary pattern is inversely associated with cognitive functioning in children*
STEER (Student: Alina Mizrahi). Perelman School of Medicine, CEET, University of Pennsylvania. \$4000.
Role: Faculty Mentor
- 2020-2021 *Dietary practices associated with blood lead levels*
STEER (Student: Swapnika Alahari). Perelman School of Medicine, CEET, University of Pennsylvania. \$4000.
Role: Faculty Mentor
- 8/15/2020-12/22/2020 *Penn Global Seminar: Introduction to Traditional Chinese Medicine*
Penn Global Education Grant. Office of the Vice Provost for Global Initiatives, University of Pennsylvania. \$40,000.
Role: Faculty Director
- 8/15/2018-1/15/2019 *Penn Global Seminar: Introduction to Traditional Chinese Medicine*
Penn Global Education Grant. Office of the Vice Provost for Global Initiatives, University of Pennsylvania. \$40,000.
Role: Faculty Director
- 06/01/2018-08/31/2018 *Summer Undergraduate Research Group Grant (SURGG)*
Education Research Grant. Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$30,000.
Role: Faculty Director
- 01/01/2018-5/30/2018 *Penn Global Seminar: Environmental Health Issues and Global Implications – China*
Penn Global Education Grant. Office of the Vice Provost for Global Initiatives, University of Pennsylvania. \$40,000.
Role: Faculty Director
- 01/01/2017-05/15/2017 *Penn Global Seminar: Environmental Health Issues and Global Implications – China*
Penn Global Education Grant. Office of the Vice Provost for Global Initiatives, University of Pennsylvania. \$40,000.
Role: Faculty Director
- 01/01/2011-12/31/2011 *Launching the Penn & Peking University Academic Partnership in Nursing Application for Distinguished International Scholars Program*
Education Grant. Penn Provost's Global Fund. Office of the Vice Provost for Global Initiatives, University of Pennsylvania. \$12,500.
Role: Co-Investigator

2008-2009 *Environment toxicity, nutrition and child behavioral problems: A field research learning experience in interdisciplinary offerings in China*
Education Grant. Hewlett Award for Innovation in International Offerings. \$12,500.
Role: Principal Investigator

Past Support – Student Mentoring

2018-2019 *Early childhood aggression and associated factors: a followup of the Healthy Brains and Behavior Study*
Vagelos Undergraduate Research Grant (Student: Jessica Wang). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$500.
Role: Faculty Mentor

2018-2019 *Air Pollution and sleep outcomes*
Vagelos Undergraduate Research Grant (Student: Tina Wu). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$500.
Role: Faculty Mentor

6/1/2019-8/15/2019 *Air pollution exposure and adverse sleep health across the life course: A systematic review.*
Short Term Educational Experiences for Research in Environmental Science (Student: Tina Wu). Center of Excellence in Environmental Epidemiology, University of Pennsylvania. \$4000.
Role: Faculty Mentor

06/01/2018-08/15/2018 *Healthy Brains and Behavior: a follow-up study*
Penn Undergraduate Research Mentoring Program (Student: Tina Wu). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$4500.
Role: Faculty Mentor

06/01/2018-08/15/2018 *Healthy Brains and Behavior: biosocial model for childhood aggression*
Short Term Educational Experiences for Research in Environmental Science (Student: Ayah El-famawi). Center of Excellence in Environmental Epidemiology, University of Pennsylvania. \$4000.
Role: Faculty Mentor

06/01/2018-08/15/2018 *Healthy Brains and Behavior: biosocial model for childhood aggression*
Short Term Educational Experiences for Research in Environmental Science (Student: Nia Akins). Center of Excellence in Environmental Epidemiology, University of Pennsylvania. \$4000.
Role: Faculty Mentor

10/10/2016-10/9/2017 *Midday Napping, Nighttime Sleep and Neurocognitive Function in Adolescents*
Research Grant (Student: Xiaopeng Ji). Office of Nursing Research, School of Nursing, University of Pennsylvania. \$3500.
Role: Faculty Mentor

6/1/2017-8/15/2017 *The relationship between trace elements and depression: a literature review*
Short Term Educational Experiences for Research in Environmental Science (Student: Jessica Wang). Center of Excellence in Environmental Epidemiology, University of Pennsylvania. \$3500.
Role: Faculty Mentor

11/01/2016-5/31/2017 *Child physical abuse and externalizing behavior: Mediating effect of P300 ERP*
Research Grant (Student: Naixue Cui). Office of Nursing Research, School of Nursing, University of Pennsylvania. \$5000.
Role: Faculty Mentor

03/01/2015-02/28/2016 *Micronutrients, child maltreatment and neurocognition among community children*

- Research Grant (Student: Naixue Cui). Office of Nursing Research, School of Nursing, University of Pennsylvania. \$4900.
Role: Faculty Mentor
- 03/01/2015-03/01/2016 *The association among serum micronutrient status, sleep patterns, and daytime dysfunction in adolescents*
Research Grant (Student: Xiaopeng Ji). Office of Nursing Research, School of Nursing, University of Pennsylvania. \$4900.
Role: Faculty Mentor
- 06/01/2014-08/15/2014 *The effects of liquid consumption on childhood IQ*
Penn Undergraduate Research Mentoring Program (Student: Joseph Mellia). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$5500.
Role: Faculty Mentor
- 2012-2014 *Early happiness and children's behavior*
FULD Four Program Research Grant (Student: Emily Tsao). School of Nursing, University of Pennsylvania. \$3000.
Role: Faculty Mentor
- 2012-2013 *The psychophysiological testing of Chinese schoolchildren: Establishing a baseline and indications on early risk factors*
Vagelos Undergraduate Research Grant (Student: Richard Liu). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$750.
Role: Faculty Mentor
- 01/01/2011-12/31/2011 *The Interplay of Parent-Child Gender in Child Maltreatment in Mainland China*
GAPSA-Provost Fellowship for Interdisciplinary Innovation (Student: Naixue Cui). University of Pennsylvania. \$6000.
Role: Faculty Mentor
- 2010-2011 *Comparison of soil lead levels and blood lead levels in suburban, rural, and urban areas of Jintan, China*
School of Nursing Undergraduate Mentored Research Award (Student: Yin Lo). School of Nursing, University of Pennsylvania. \$4000.
Role: Faculty Mentor
- 2010-2011 *Changing rates of overweight and obesity in children and associated factors in Jintan, China*
Vagelos Undergraduate Research Grant (Student: Barbra Dickerman). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$500.
Role: Faculty Mentor
- 06/01/2010-08/15/2010 *Nutrition study in children in Jintan, China*
Penn Undergraduate Research Mentoring Program (Student: Wei Wang). Center for Undergraduate Research & Fellowships, University of Pennsylvania. \$5500.
Role: Faculty Mentor

PUBLICATIONS (a total of 204 as of July 2023) Google Scholar H index=49; citation: 11611

Accepted and In Press Journal Articles:

1. Liu, J., Ouyang, N., Mizrahi, A., & Kornides, M. (accepted). Social Distancing in the COVID-19 Pandemic: Associated Factors, Health Outcomes, and Implications. *Family and Community Health*.

Published Journal Articles: Research, Peer Reviewed (189) *indicates data based

1. Zhou, Y., Zhou, L., Yang, L., Liu, J., Wang, N., Tang, E., ... & Ji, A. (2023). Increased ozone exposure is associated with decreased risk of epilepsy: A hospital-based study in southwest China. *Atmospheric Environment*, 306, 119797.

2. Liu, J., Yang, Y., Zhu, Y., Hou, X., Li, S., Chen, S., & Yang, J. (2023). Effectiveness of Baduanjin (a Type of Qigong) on Physical, Cognitive, and Mental Health Outcomes: A Comprehensive Review. *Advances in mind-body medicine*, 37(2), 9-23.
3. Liu, J., Shi, H., & Lee, T. M. (2023). Qigong Exercise and Cognitive Function in Brain Imaging Studies: A Systematic Review of Randomized Controlled Trials in Healthy and Cognitively Impaired Populations. *Brain Behavior and Immunity Integrative*, 100016.
4. Raine, A., Choy, O., Achenbach, T., & Liu, J. (2023). High resting heart rate protects against the intergenerational transmission of antisocial behavior: a birth cohort study. *European Child & Adolescent Psychiatry*, 1-7.
5. Copeland, W. E., Ivanova, M. Y., Achenbach, T. M., Turner, L. V., Tong, G., Ahmeti-Pronaj, A., ... Liu, J., ... & Zasepa, E. (2023). Cultural contributions to adults' self-rated mental health problems and strengths: 7 culture clusters, 28 societies, 16 906 adults. *Psychological Medicine*, 1-10.
6. Glenn, A. L., Ragno, L., & Liu, J. (2023). Association between Postnatal Environmental Tobacco Smoke Exposure Controlling for Prenatal Exposure and Conduct Problems in Children: A Systematic Review. *NeuroToxicology*.
7. Wu, Q., Lei, H., Mao, T., Deng, Y., Zhang, X., Jiang, Y., ... & Rao, H. (2023). Test-Retest Reliability of Resting Brain Small-World Network Properties across Different Data Processing and Modeling Strategies. *Brain Sciences*, 13(5), 825.
8. *Liu, J., Kowal, I., Yang, Y., Zhu, Y., Chen, S., Perez, A., ... & Group, C. O. A. Q. E. (2023). Culturally tailored group Qigong exercise in older Chinese immigrants: A feasibility study. *Geriatric Nursing*, 51, 245-252.
9. *Zhou, Y., Zhou, L., Yang, L., Liu, J., Wang, N., Tang, E., ... & Ji, A. (2023). Increased ozone exposure is associated with decreased risk of epilepsy: A hospital-based study in southwest China. *Atmospheric Environment*, 119797.
10. *Liu, J., Li, S., Yan, X., Li, J., Sun, Q., Mei, H., & Rao, H. (2023). Social Connection and Lifestyle Factors Associated With Happiness in Urban Older Adults in China: A Cross-Sectional Study With a Community Sample. *Research in Gerontological Nursing*, 1-14.
11. Yuan, A., Halabicky, O., Rao, H., & Liu, J. (2023). Lifetime air pollution exposure, cognitive deficits, and brain imaging outcomes: A systematic review. *NeuroToxicology*.
12. *Dai, Y., & Liu, J. (2023). Neighborhood predictors of short sleep duration and bedtime irregularity among children in the United States: results from the 2019–2020 National Survey of Children’s Health. *World Journal of Pediatrics*, 1-9.
13. *Zhou, Y., Ji, A., Tang, E., Liu, J., Yao, C., Liu, X., ... & Cai, T. (2023). The role of extreme high humidex in depression in chongqing, China: A time series-analysis. *Environmental Research*, 222, 115400.
14. Gladieux, M., Gimness, N., Rodriguez, B., & Liu, J. (2023). Adverse Childhood Experiences (ACEs) and Environmental Exposures on Neurocognitive Outcomes in Children: Empirical Evidence, Potential Mechanisms, and Implications. *Toxics*, 11(3), 259.
15. *Zhang, Q., Sun, M. A., Sun, Q., Mei, H., Rao, H., & Liu, J. (2023). Mental Fatigue Is Associated with Subjective Cognitive Decline among Older Adults. *Brain Sciences*, 13(3), 376.
16. Ouyang, N., & Liu, J. (2023). Effect of physical activity interventions on aggressive behaviors for children and adolescents: A systematic review and meta-analysis. *Aggression and Violent Behavior*, 101821.
17. Dai, Y., Trout, K. K., & Liu, J. (2022). Perinatal Physiological and Psychological Risk Factors and Childhood Sleep Outcomes: A Systematic Review and Meta-analysis. *Journal of Developmental & Behavioral Pediatrics*, 43(9), e629-e644.
18. *Glenn, A. L., Li, Y., & Liu, J. (2022). Association between lower-level of environmental lead exposure and reactive and proactive aggression in youth: Sex differences. *Journal of Environmental Science and Health, Part C*, 1-14.
19. Crane, K., Li, L., Subramanian, P., Rovit, E., & Liu, J. (2022). Climate Change and Mental Health: A Review of Empirical Evidence, Mechanisms and Implications. *Atmosphere*, 13(12), 2096.
20. *Halabicky, O. M., Ji, X., Gur, R. E., Gur, R. C., Yan, C., Chen, A., & Liu, J. (2022). Childhood lead exposure and sex-based neurobehavioral functioning in adolescence. *NeuroToxicology*.

21. Dai, Y., Trout, K. K., & **Liu, J.** (2022). Perinatal Physiological and Psychological Risk Factors and Childhood Sleep Outcomes: A Systematic Review and Meta-analysis. *Journal of Developmental & Behavioral Pediatrics, 43*(9), e629-e644.
22. **Liu, J.**, Ji, X., Rovit, E., Pitt, S., & Lipman, T. (2022). Childhood sleep: assessments, risk factors, and potential mechanisms. *World Journal of Pediatrics, 1*-17.
23. **Liu, J.**, Ji, X., Pitt, S., Wang, G., Rovit, E., Lipman, T., & Jiang, F. (2022). Childhood sleep: physical, cognitive, and behavioral consequences and implications. *World Journal of Pediatrics, 1*-11.
24. *Cao, Y., Xu, X., Li, M., **Liu, J.**, & Shi, Z. (2022). Both Short and Long Sleep Durations Are Associated with Poor Cognition and Memory in Chinese Adults Aged 55+ Years—Results from China Health and Nutrition Survey. *Life, 12*(11), 1798.
25. *Raine, A., Ling, S., Streicher, W., & **Liu, J.** (2022). The conduct and oppositional defiant disorder scales (CODDS) for disruptive behaviour disorders. *Psychiatry Research, 316*, 114744.
26. *Li, D., Ji, A., Lin, Z., **Liu, J.**, Tan, C., Huang, X., ... & Cai, T. (2022). Short-term ambient air pollution exposure and adult primary insomnia outpatient visits in Chongqing, China: A time-series analysis. *Environmental Research, 212*, 113188.
27. ***Liu, J.**, Lee, C. M., An, Y., Sun, Q., Mei, H., Shi, S., ... & Rao, H. (2022). Application of the Older Adult Self-Report and Older Adult Behavior Checklist to Chinese Older Adults: Syndrome Structure and Inter-Informant Agreement. *Journal of Gerontological Nursing, 48*(8), 26-32.
28. **Liu, J.**, Magielski, J., Glenn, A., & Raine, A. (2022). The Bidirectional Relationship between Sleep and Externalizing Behavior: A Systematic Review. *Sleep Epidemiology, 100039*.
29. *Halabicky, O. M., Pinto-Martin, J. A., Compton, P., & **Liu, J.** (2022). Low level lead exposure in early childhood and parental education on adolescent IQ and working memory: a cohort study. *Journal of Exposure Science & Environmental Epidemiology, 1*-9.
30. *Halabicky, O. M., Pinto-Martin, J. A., Compton, P., & **Liu, J.** (2022). Longitudinal association of early childhood lead exposure and adolescent heart rate variability: influence of parental education. *Journal of Environmental Science and Health, Part C, 1*-21.
31. *Halabicky, O. M., Pinto-Martin, J. A., Compton, P., & **Liu, J.** (2022). Early childhood lead exposure and adolescent heart rate variability: A longitudinal cohort study. *Environmental research, 205*, 112551.
32. ***Liu, J.**, Portnoy, J., Raine, A., Gladieux, M., McGarry, P., & Chen, A. (2022). Blood lead levels mediate the relationship between social adversity and child externalizing behavior. *Environmental research, 204*(Pt D), 112396.
33. *Gui, Y., Deng, Y., Sun, X., Li, W., Rong, T., Wang, X., Jiang, Y., Zhu, Q., **Liu, J.**, Wang, G. and Jiang, F., 2022. Early Childhood Sleep Trajectories and Association with Maternal Depression: A Prospective Cohort Study. *Sleep*.
34. ***Liu, J.**, Dong, F., Lee, C. M., Reyes, J., & Ivanova, M. (2021). The Application of the Adult Self-Report and the Adult Behavior Checklist Form to Chinese Adults: Syndrome Structure, Inter-Informant Agreement, and Cultural Comparison. *International Journal of Environmental Research and Public Health, 18*(12), 6352.
35. **Liu, J.**, Wang, J., Liu, X., Shen, H. (2021). The Role of Traditional Chinese Medicine in COVID-19: Theory, Initial Clinical Evidence, Potential Mechanisms, and Implications. *Alternative Therapies in Health and Medicine, 27*, 210-227.
36. *Cui, N., Raine, A., Connolly, C. A., Richmond, T. S., Hanlon, A. L., McDonald, C. C., & **Liu, J.** (2021). P300 Event-Related Potentials Mediate the Relationship Between Child Physical Abuse and Externalizing Behavior. *Frontiers in psychology, 12*, 720094.
37. *Ji, X., Compher, C. W., Irving, S. Y., Kim, J., Dinges, D. F., & **Liu, J.** (2021). Serum micronutrient status, sleep quality and neurobehavioural function among early adolescents. *Public Health Nutrition, 24*(17), 5815–5825.
38. *Raine, A., Wong, K. K., & **Liu, J.** (2021). The Schizotypal Personality Questionnaire for Children (SPQ-C): Factor Structure, Child Abuse, and Family History of Schizotypy. *Schizophrenia bulletin, 47*(2), 323–331.
39. Dai, Y., & **Liu, J.** (2021). Parental perceived child sleep problems: A concept analysis. *Journal for specialists in pediatric nursing: JSPN, 26*(2), e12327.

40. *Liu, J., Wu, L., Um, P., Wang, J., Kral, T. V. E., Hanlon, A., & Shi, Z. (2021). Breakfast Consumption Habits at Age 6 and Cognitive Ability at Age 12: A Longitudinal Cohort Study. *Nutrients*, 13(6), 2080.
41. *Liu, J., Glenn, A. L., Cui, N., & Raine, A. (2021). Longitudinal bidirectional association between sleep and behavior problems at age 6 and 11 years. *Sleep Medicine*, 83, 290-298.
42. Liu, J., Riesch, S., Tien, J., Lipman, T., Pinto-Martin, J., & O'Sullivan, A. (2021). Screen Media Overuse and Associated Physical, Cognitive, and Emotional/Behavioral Outcomes in Children and Adolescents: An Integrative Review. *Journal of pediatric health care: official publication of National Association of Pediatric Nurse Associates & Practitioners*, S0891-5245(21)00126-7. Advance online publication.
43. *Portnoy, J., McGouldrick, S. H., Raine, A., Zemel, B. S., Tucker, K. L., & Liu, J. (2021). Lower dietary intake of magnesium is associated with more callous-unemotional traits in children. *Nutritional neuroscience*, 1–10. Advance online publication.
44. *Portnoy, J., Wang, J., Wang, F., Um, P., Irving, S. Y., Hackl, L., & Liu, J. (2021). Lower serum selenium concentration associated with anxiety in children. *Journal of Pediatric Nursing*
45. *Liu, J., Chan, C., & Leung, P. W. L. (2021). Youth psychopathology: Universal or culture-specific? Testing the syndrome models of youth self-report in Chinese population. *Journal of Child and Adolescent Psychiatric Nursing*, 1-16.
46. *Ivanova, M. Y., Achenbach, T. M., Rescorla, L. A., Liu, J., Markovic, J., Misiec, M., Oh, K. J., ... Zasepa, E. (2021). The generalizability of empirically derived syndromes of collateral-reported elder psychopathology across 11 societies. *Research in & Health*, 44(4), 681–691.
47. *Liu, J., Portnoy, J., Um, P., Cui, N., Rudo-Hutt, A., Yan, C., ... & Chen, A. (2021). Blood lead and mercury levels are associated with low resting heart rate in community adolescent boys. *International Journal of Hygiene and Environmental Health*, 233, 113685.
48. Liu, J., Ghastine, L., Um, P., Rovit, E., & Wu, T. (2020). Environmental Exposures and Sleep Outcomes: a review of evidence, potential mechanisms, and implications. *Environmental Research*, 110406.
49. Liu, J., Wu, T., Liu, Q., Wu, S., & Chen, J. C. (2020). Air pollution exposure and adverse sleep health across the life course: A systematic review. *Environmental Pollution*, 114263.
50. Liu, J., Potter, T., & Zahner, S. (2020). Policy brief on climate change and mental health/well-being. *Nursing Outlook*, 68(4), 517-522.
51. Portnoy, J., Cui, N., Raine, A., Frazier, A., Rudo-Hutt, A. S., & Liu, J*. (2020). Autonomic nervous system activity and callous-unemotional traits in physically maltreated youth. *Child Abuse & Neglect*, 101, 104308.
52. Gao, H., Zhang, L., & Liu, J. (2020). Auricular acupressure for myopia in children and adolescents: A systematic review. *Complementary therapies in clinical practice*, 38, 101067.
53. Dai, Y., & Liu, J. (2020). Omega-3 long-chain polyunsaturated fatty acid and sleep: a systematic review and meta-analysis of randomized controlled trials and longitudinal studies. *Nutrition Reviews*.
54. Arnold, O. M., & Liu, J. (2020). Blood lead levels ≤ 10 micrograms/deciliter and executive functioning across childhood development: A systematic review. *Neurotoxicology and Teratology*, 106888.
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174. ***Liu, J.**, Li, L., Fang, F. (2010). Psychometric properties of the Chinese version of the Parental Bonding Instrument. *International Journal of Nursing Studies*, [Epub ahead of print], doi:10.106/j.ijnurst.2010.10.008.
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176. *Ivanova, M.Y., ...**Liu, J.** (one of 42 co-authors). (2010) Testing the 7-Syndrome Model of the Child Behavior Checklist for Ages 1.5-5 in 23 Societies. *The Journal of the American Academy of Child and Adolescent Psychiatry*,49:1215-24.
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179. *Baker, L.A., Raine, A., **Liu, J.** & Jacobson, K.C. (2008). Differential genetic and environmental influences on reactive and proactive aggression in children. *Journal of Abnormal Child Psychology*, 36, 1265-1278.
180. *Venables, P., **Liu, J.**, Raine, A., & Mednick, S.A. (2007). Prenatal influenza exposure and delivery complications: Implications for the development of schizophrenia. *Family & Community Health*, 30, 151-159.
181. *Raine, A., Dodge, K.A., Loeber, R., Gatzke-Kopp, L., Lynam, D., Reynolds, C., Stouthamer-Loeber, M., & **Liu, J.** (2006). The reactive-proactive aggression questionnaire: Differential correlates of reactive and proactive aggression in adolescent boys. *Aggressive Behavior*, 32, 159-171.
182. **Liu, J.**, & Raine, A. (2006). The effect of childhood malnutrition on externalizing behavior. *Current Opinion in Pediatrics*, 18, 565-570.
183. **Liu, J.** & Wuerker, A. (2005). Biosocial bases of violence: Implications for nursing research. *International Journal of Nursing Studies*, 42, 229-241.
184. ***Liu, J.**, Raine, A., Venables, P., & Mednick, S.A. (2004). Malnutrition at age 3 years predisposes to externalizing behavior problems at ages 8, 11 and 17 years. *American Journal of Psychiatry*, 161, 2005-2013.

185. **Liu, J.** (2004). Childhood externalizing behavior-theory and implication. *Journal of Child and Adolescent Psychiatric Nursing*, 17(3), 93-103.
186. **Liu, J.** (2004). Prenatal & perinatal complications as predispositions to externalizing behavior. *Journal of Prenatal & Perinatal Psychology & Health*, 18(4), 301-311.
187. **Liu, J.** (2004). Concept Analysis: Aggression. *Issues in Mental Health Nursing*, 25(7), 693-714.
188. *Raine, A., Mellinger, K., **Liu, J.**, Venables, P., & Mednick, S.A. (2003). Effects of environmental enrichment at 3-5 years on schizotypal personality and antisocial behavior at ages 17 and 23 years. *American Journal of Psychiatry*, 160, 1627-35.
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International Journal Research Articles (4; all are refereed and data-based) *indicates data based

1. *Ai, Shen, Zhang, Wang, Sun, and **Liu, J.**, (2011) Survey on related factors of nutritional awareness, attitude, practice among school children in Jintan. *Journal of Southeast University (Medical Science Edition) (in Chinese with Abstract in English)*, 29 (6):623-626.
2. *Peng, H., Han, L., Sun, G., & **Liu, J.** (2009). Study on intelligence level and its structure in preschool children. *Maternal Child Health Care of China (in Chinese with Abstract in English)*, 24(12), 1660-1663.
3. *Ai, Zhang, Han, Peng, Su, Chen, and **Liu, J.** (2008) Intelligent ability of the preschool children and its influencing factors in Jintan kindergarten. *Modern Medical Journal (in Chinese with Abstract in English)*, 36, 11-14.
4. *Zhang, Peng, Su, Chen, and **Liu, J.** (2008) Blood mineral status among 1353 preschool children in Jintan. *Journal of Southeast University (Medical Science Edition) (in Chinese with Abstract in English)*; 27, 121-124.

Chapters in Books (8)

1. Um, P and **Liu J.** (2018) The Nutritional Context of Juvenile Antisocial Behavior in Michael Vaughn Christopher Salas-Wright and Dylan Jackson *The International Handbook of Delinquency and Health (Routledge)*
2. **Liu, J.**, & Raine, A. (2011). Malnutrition and externalizing behavior. In D. Benton (Eds.), *Lifetime nutritional influences on cognition, behaviour and psychiatric illness*. (301-322) Cambridge: Woodhead Publishing.
3. Peskin, M., Glenn, A. L., Gao, Y., **Liu, J.**, Schug, R. S., Yang, Y., & Raine, A. (2012). Personal characteristics of delinquents: Neurobiology, genetic predispositions, and individual psychosocial attributes. In M. Tonry, D. M. Bishop, & B. Feld (Eds.), *Oxford Handbook of Juvenile Crime and Juvenile Justice: Vol. 1. Individual level variables*. Oxford: Oxford University Press.
4. Venables, P., Raine, A., Dalais, C., **Liu, J.**, & Mednick, S.A. (2006). Malnutrition, cognitive ability, and schizotypy. In A. Raine (Eds.), *Crime and Schizophrenia: Causes and Cures*. (131-150). New York: Nova Science Publishers.
5. **Liu, J.**, Raine, A., Venables, P., & Mednick, S.A. (2006). Malnutrition, brain dysfunction, and antisocial criminal behavior. In A. Raine (Eds.), *Crime and Schizophrenia: Causes and Cures*. (109-128). New York: Nova Science Publishers.
6. Raine, A., Baker, L., & **Liu, J.** (2006). Biological risk factors for antisocial and criminal behavior. In A. Raine (Eds.), *Crime and Schizophrenia: Causes and Cures*. (83-108). New York: Nova Science Publishers.
7. Raine, A., **Liu, J.**, Venables, P., & Mednick, S.A. (2006). Preventing crime and schizophrenia using early environmental enrichment. In A. Raine (Eds.), *Crime and Schizophrenia: Causes and Cures*. (249-266). New York: Nova Science Publishers.
8. **Liu, J.** & Raine, A. (2000). Early health prevention of violence. In R. Gottesman and M. Mazon (Eds.), *Encyclopedia of Violence in the United States*. (583-585). New York: Charles Scribner.

Letter to the Editor (3)

1. Shi, Z., El-Obeid, T., Riley, M., Li, M., Page, A., & **Liu, J.** (2019). Reply to “Comments on the Editor Re: Shi, Zumin, et al. High Chili Intake and Cognitive Function among 4582 Adults: An Open Cohort Study over 15 Years. *Nutrients* 11.5 (2019): 1183.”. *Nutrients*, 11(12), 2882.
2. Shi, Z., Taylor, A. W., Riley, M., Byles, J., **Liu, J.**, & Noakes, M. (2018). Cadmium intake and chronic kidney disease: Response to Kawada T. *Clinical Nutrition*, 37(5), 1774.
3. **Liu, J.**, Raine, A., Venables, P., & Mednick, S.A. (2005). Behavioral effects of childhood malnutrition reply to Galler et al. *American Journal of Psychiatry*, 1629, 1761.

Abstracts and Poster Presentations (all data based and peer reviewed)

1. Dai, Y., **Liu, J.**, (2021, May). 612 Early Protective Factors of Child Sleep Quality Trajectory: Results from the Healthy Brain and Behavior Study, *Sleep*, Volume 44, Issue Supplement_2, May 2021, Pages A240–A241, <https://doi.org/10.1093/sleep/zsab072.610>
2. **Liu, J.**, Wang, J., Wu, T., Pitt, S., Raine, A., Richmond, T. (2019). The Healthy Brains and Behavior Study: A Follow-up Study from Childhood to Young Adulthood on Early Biosocial Risk Factors for Later Health Outcomes. *American Public Health Association 2019 Annual Meeting*, Philadelphia, PA, November 2019.
3. Dai, Y., Deng, Y., Lin, Y., **Liu, J.**, Ouyang, R., Li, L. (2019). Long-term Follow-Up on Health Outcomes and Quality of Life in Patients with Hirschsprung’s Disease around the world: A Systematic Review and Meta-analysis. *American Public Health Association 2019 Annual Meeting*, Philadelphia, PA, November 2019.
4. Dai, Y., **Liu, J.**, Li, R., Ouyang, R. (2019). Family-centered home care education program in China to improve the prognosis of children with long-segment Hirschsprung’s disease. *American Public Health Association 2019 Annual Meeting*, Philadelphia, PA, November 2019.
5. Bevan, S., Dong, F., Pinto-Martin, J., **Liu, J.** (2019). Relationship between multi-informant report of Autism Spectrum Disorder behaviors and Schizotypal risk. *American Public Health Association 2019 Annual Meeting*, Philadelphia, PA, November 2019.
6. Tai, HT., **Liu, J.** (2019). Adverse Prenatal Factors Associated with Early Adolescent Delinquency: Implications for Prenatal Interventions. *2019 Asian American / Pacific Islander Nurses Association & Taiwan Nurses Association Joint International Conference*, Taichung City, Taiwan, August 2019.
7. Shi, Z., El-Obeid, T, Li, M., Xu, X., **Liu, J.** (2019). Plant-Based Iron-Related Dietary Pattern Increases the Risk of Poor Cognition. *Nutrition 2019*. Baltimore, MD. June 2019.
8. Tien, J., Um, P., Wu, L., Wang, J., Pinto-Martin, J., **Liu, J.** (2019). Longitudinal Follow-up of Children with Breakfast Consumption on Their IQ. *Nutrition 2019*. Baltimore, MD. June 2019.
9. **Liu, J.**, Wu, L., Hanlon, A., Tien, J., Um, P., Dickerman, B., Irving, S., Shi, Z., Compher, C. (2019). Breakfast types are associated with adolescents’ IQ and academic achievement. *Nutrition 2019*. Baltimore, MD. June 2019.
10. Wang, J., **Liu, J.** (2019). Early biosocial risk factors and later health outcomes in adolescents: a follow-up of the Healthy Brains and Behavior Study. Center for Undergraduate Research & Fellowships Symposium Spring 2019. University of Pennsylvania, Philadelphia, PA, January 2019.
11. Hibbeln, JR., Cui, Y., Li, L., Wu, L., Hanlon, A., Pinto-Martin, J., Raine, A., **Liu, J.** (2018). The mediating role of sleep in the fish consumption - cognitive functioning relationship: a cohort study . *International Society for Study of Fatty Acids and Lipids Congress 2018*, Las Vegas, NV, May 2018.
12. **Liu, J.**, Cui, N., Liu, X. (2018) A Longitudinal Analysis of the Relationship Between Sleep Disturbance and Behavioral Problems in Children. *SLEEP 2018*, Baltimore, MD, June 2018.
13. **Liu, J.**, Wang, G., Ji, X., Cui, N., Liu, X. (2018) Agreement between parent and child self-report of sleep problems in Chinese children. *SLEEP 2018*, Baltimore, MD, June 2018.
14. Dong, F., **Liu, J.** (2018) Sleep Disturbance Mediates The Relationship Between Maternal Parenting And The Schizotypal Personality Traits. *SLEEP 2018*, Baltimore, MD, June 2018.

15. Chen, Z., Liu, X., **Liu, J.** (2018) Early Childhood Co-Sleeping is Associated with Preadolescent Behavioral Problems: A Cohort Study. *SLEEP 2018*, Baltimore, MD, June 2018.
16. Hou, Y., Liu, X., **Liu, J.** (2018) Trends In Self-reported Sleep Duration And Disturbance In The US General Population: NHANES 2005-2014. *SLEEP 2018*. Baltimore, MD, June 2018.
17. Mei, H., Liu, L., Li, Y., **Liu, J.**, Zhang, Y. (2017) Meta-analysis of the effectiveness of acupoint massage in improving elderly cognitive function. *American Traditional Chinese Medicine Congress*. Hyatt Regency in Washington, DC, September 2017.
18. Zhang, Y., Cai, J., Feng, R., **Liu, J.** (2017) Combining the "bringing Yang into Yin" massage technique and breathing guidance method for sleep disturbance. *American Traditional Chinese Medicine Congress*. Hyatt Regency in Washington, DC, September 2017.
19. Wang, J., Dharmawirya, J., **Liu, J.** The relationship between trace elements and depression: a literature review. *University of Pennsylvania Center of Excellence in Environmental Toxicology Annual Symposium*, Philadelphia, Pennsylvania, June 2017.
20. Wang, J., Yang, H., Chen, T., Chen, Z., **Liu, J.** IQ at age 6 and later academic performance: a six-year follow-up study in China. *Children's Hospital of Philadelphia Pediatric Global Health Conference*, Philadelphia, Pennsylvania, September 2016.
21. Cui, N., **Liu, J.** (2017) Child maltreatment and gender in China: Implications for research and practice. *Center for the Study of Contemporary China 2017 Annual Conference*, Philadelphia, Pennsylvania, April 2017.
22. **Liu, J.**, T. Ye, N, Cui. (2016) Mindfulness Training, Stress Reduction, and Behavioral Outcomes among Chinese adolescents at *Transforming Health, Driving Policy Conference*. Oct 2016.
23. **Liu, J.**, N, Cui. (2016) Lead and mercury exposure are associated with low resting heart rate in community children at 8th International Conference on Children's Health and the Environment, Barcelona, Spain at September 14-16, 2016.
24. **Liu, J.** Li, Y. Wang, S. Feng, P. (2016) Maternal Sleep Quality and Emotional Status during Pregnancy. *SLEEP 2016, the 30th Anniversary Meeting of the Associated Professional Sleep Societies*, LLC, Denver, CO.
25. **Liu, J.** Chen, Z. (2016) Children Exposure To Second Hand Smoke (SHS) During Utero And Childhood Are Associated With Increased Risk For Sleep Disturbance. *SLEEP 2016, the 30th Anniversary Meeting of the Associated Professional Sleep Societies*, LLC, Denver, CO.
26. Cui, N., Ji, X., **Liu, J.** Child physical abuse, iron deficiency and behavior problems in Chinese children: A preliminary analysis. *International Family Violence and Child Victimization Research Conference*, University of New Hampshire, Durham, NH, 2016.
27. Cui, N., Ji, X., **Liu, J.** Physically abused adolescents demonstrated poorer sleep quality: Evidence from a propensity score matched sample. *SLEEP 2016, the 30th Anniversary Meeting of the Associated Professional Sleep Societies*, LLC, Denver, CO, 2016.
28. Cui, N., Ji, X., **Liu, J.** Child physical abuse, iron deficiency and child behavioral problems. *International Family Violence and Child Victimization Research Conference*. Portsmouth, New Hampshire, 2016.
29. Ji, X., **Liu, J.** The Relationship between Sleep Quality, Daytime Nap and Neurocognitive Function in Adolescents, *SLEEP 2016*.
30. **Liu, J.**, Wang, F., Chen, Z., Hanlon, A. The Association Between Blood Levels of Selenium and Anxiety Disorders of Children. 2016 ADAAC Conference, Philadelphia Marriott Downtown in Philadelphia, PA, March-April 2016.
31. Chen, Z., **Liu, J.** Children Exposure Do Second Hand Smoke (SHS) During Utero And Childhood Are Associated With Increased Risk For Sleep Disturbance. 2016 SLEEP APSS Conference, Hyatt Regency at Colorado Convention Center in Denver, CO, June 2016.
32. **Liu, J.**, et al. Maternal Sleep Quality And Emotional Status During Pregnancy. 2016 SLEEP APSS Conference, Hyatt Regency at Colorado Convention Center in Denver, CO, June 2016.
33. Wang, G., Li, Y., **Liu, J.** Maternal Emotions during Prenatal and Postnatal Period Affect Preschoolers' Sleep Outcomes: A Retrospective Study. 2016 ISPA Congress, Taipei International Convention Center in Taipei, Taiwan, March 2016.

34. **Liu, J.**, Li, Y., Cui, N., Rudo-Hutt, A., Raine, A. Low-level lead exposure is associated with delayed brain maturation. 2015 EPA/NIEHS Children's Center Annual Meeting, the Grand Hyatt in Washington, DC, October 2015.
35. Li, Y., Chen, Z., **Liu, J.** Low-level of environmental lead exposure and children's proactive aggression. 2015 EPA/NIEHS Children's Center Annual Meeting, the Grand Hyatt in Washington, DC, October 2015.
36. **Liu, J.**, Qi, X., Ji, X., McCauley, L., Halon, A. Low Blood Lead Concentration Is Associated With Sleep Disturbance in Preadolescents. 2015 EPA/NIEHS Children's Center Annual Meeting, the Grand Hyatt in Washington, DC, October 2015.
37. **Liu, J.**, and Shi, Z. Children's Dietary Pattern is associated with Blood Lead Levels. 2015 EPA/NIEHS Children's Center Annual Meeting, the Grand Hyatt in Washington, DC, October 2015.
38. Cui, N., Yao, B. **Liu, J.** Low level of lead exposure is associated with prolonged P300 latency among 12 years old children. 2015 EPA/NIEHS Children's Center Annual Meeting, the Grand Hyatt in Washington, DC, October 2015.
39. **Liu, J.** et al. Sleep Disturbance Is Associated With Increased Risk For High Glucose Levels. Poster paper, SLEEP 2015, the 29th Annual Meeting of the Associated Professional Sleep Societies, Seattle, June 2015.
40. **Liu, J.** Chen, Z, Liu, L. Association between secondhand smoke exposure and sleep patterns in children-a longitudinal cohort study. Poster paper, 2015 Society for Research on Nicotine & Tobacco February 25-28, 2015 Philadelphia Marriott Hotel
41. Ji, X., & **Liu, J.** (2015). The Association between Serum Micronutrient Levels and Sleep quality in Adolescents. Poster paper, 2015 Eastern Society for Pediatric Research Annual Meeting, Doubletree Hotel, Philadelphia, Pennsylvania, March 2015.
42. Ji, X., George, M. & **Liu, J.** Gender differences in the sleep pattern and associated parental sleep factors among Chinese adolescents. Poster paper, Global Gender Disparities and their Impact on Girls, CHOP, November, 2014.
43. **Liu, J.** Sleep disordered breathing symptoms and parent/self-reported daytime sleepiness associated with emotional problems and school performance in Chinese children. 2nd World Conference on Psychology and Sociology, Maison N.-D. Chat d'Oiseau, Brusells, Belgium, November 2013.
44. **Liu, J.**, Wang, J., & Liu, X. Is childhood lead exposure associated with sleep problems in early adolescents? Environment and Health – Bridging South, North, East and West; Conference of ISEE, ISES, and ISIAQ, Basel, Switzerland, August 2013.
45. **Liu, J.** et al. Early Lead Exposure and Neurocognitive Outcomes in Preschool Children. Environmental Health Conference: Science and Policy to Protect Future Generations, Boston Marriot Long Wharf in Boston, Massachusetts, March 2013.
46. **Liu, J.** et al. Low Blood Lead Levels and Behavioral/Emotional Problems in Preschool Children. American Academy of Nursing (AAN) 39th Annual Meeting & Conference, Hyatt Regency on Capitol Hill in Washington, DC, October 2012.
47. **Liu, J.** et al. Regular Breakfast Consumption is Associated with Increased IQ in Kindergarten Children. Children's Hospital of Pennsylvania 5th Annual Pediatric Global Health Symposium, The Union League of Philadelphia in Philadelphia, PA, September 2012.
48. Chen, R., **Liu, J.**, Wong, I. Migrant Children's Nutrition Status and School Performance in China. Children's Hospital of Pennsylvania 5th Annual Pediatric Global Health Symposium, The Union League of Philadelphia in Philadelphia, PA, September 2012.
49. **Liu, J.** et al. Micronutrient Deficiency and Behavior Problems in Chinese Preschoolers. Council for the Advancement of Nursing Science 2012 State of the Science Congress on Nursing Research, Hilton Washington Hotel in Washington, DC, September 2012.

50. **Liu, J.** et al. Effect of Breastfeeding and Active Bonding on Childhood Internalizing Behavior Problems Among Kindergarten Children. Anxiety Disorders Association of America (ADAA) 32nd Annual Conference, Crystal Gateway Marriot Hotel in Arlington, Virginia, April 2012.
51. Zickgraf, H., **Liu, J.** Parental Overprotection and Child Internalizing Behavior. Anxiety Disorders Association of America (ADAA) 32nd Annual Conference, Crystal Gateway Marriot Hotel in Arlington, Virginia, April 2012.
52. Li, L., Yang, A., Mohr, K., Tuvblad, C., Raine, A. Baker, L., **Liu, J.** Postpartum Depression and Childhood Behavior Problems. Anxiety Disorders Association of America (ADAA) 32nd Annual Conference, Crystal Gateway Marriot Hotel in Arlington, Virginia, April 2012.
53. **Liu, J.** et al. Blood Lead Levels and IQ Among Preschool Children. 50th Annual Meeting of the Society of Toxicology, Baltimore Convention Center in Baltimore, Maryland, March 2011.
54. Tang, S., Ma, X., Liao, P., **Liu, J.** Effect of prenatal stress on children's school performance. Eastern Nursing Research Society 23rd Annual Scientific Sessions, Philadelphia, Pennsylvania, March 2011.
55. **Liu, J.**, Leung P. Chinese Version CBCL/1.5-5 and C-TRF—data from Jintan Child Cohort Study. IACAPAP (The International Association of Child and Adolescent Psychiatry and Allied Professions) International Congress, Beijing, China, June 2–6, 2010.
56. **Liu, J.**, Zhang, J. Breastfeeding and associated social demographic factors UPenn Women Congress ICOWHI Conference, April 2010.
57. Fang, F., and **Liu, J.** The effects of family violence and migration on children's behavior problems in Jintan, China. UPenn Women Congress ICOWHI Conference, April 2010.
58. Sun, J., Peng, H., Holsten, J., Dickerman, B., Compher, C., **Liu, J.** Prevalence and trends of overweight and obesity judged by BMI in children from Jintan city, China. UPenn Women Congress ICOWHI Conference, April 2010.
59. **Liu, J.**, McCauley, L., Pinto-Martin, J., Shen., X, Yan, C., and Needleman., H. Lead exposure and externalizing behavior in kindergarten children. 48th Annual Meeting of the Society of Toxicology, Baltimore Convention Center in Baltimore, Maryland, March 2009.
60. **Liu, J.**, Pinto-Martin, J, and McCauley, L. Sleeping behaviors and children's cognitive ability: a population-based cohort study. Report from Jintan Cohort Study. Poster paper. *Society for Pediatric and Perinatal Epidemiologic Research (SPER) Annual Conference*, Chicago, Illinois, June 2008.
61. **Liu, J.**, Raine, A., Venables, P., Dalais. C., and Mednick, S.A. Relationships between malnutrition and emotional-social behavior in preschool children: Independence from cognitive and psychosocial confounds. Poster paper, *Seven Dimensions of Emotions*, UCLA, April 2007.
62. **Liu, J.** Invited: China Jintan Study, a longitudinal approach to study early health risk factor for Children's emotional and behavior outcomes at Society for the Study of Behavioral Development, an international research Society, June 2009.
63. **Liu, J.** Invited: Environmental Toxicants & Child Development: EPA's 2009. The Mid-Atlantic Center for Children's Health and Environment (MACCHE), June 2008.
64. **Liu, J.** Malnutrition as a risk factor for externalizing behavior. Oral paper presentation: The Borchard Foundation Conference on *Crime and Schizophrenia: Causes and Cures*. A Tribute to Sarnoff A. Mednick and Peter H. Venables, Chateau de la Bretesche, Missillac, Brittany, France, June 2004.
65. **Liu, J.**, Raine, A., Venables, P., Dalais. C., Mednick, S.A. Early malnutrition and later behavior problems. Poster paper, *Society of Prevention Research* Washington D.C, June, 2001.
66. **Liu, J.**, Raine, A., Venables, P., and Mednick, S.A. Adolescent pregnancy combined with nutritional deficits in the offspring at age 3 years predisposes to aggression at age 11 years. Poster paper, *Society of Prevention Research*, New Orleans, Louisiana, June 1999.

MEDIA REPORTS/HIGHLIGHTED IN OTHER PUBLICATIONS/WEBSITES (last 10 years)

1. Halabicky, O. M., Pinto-Martin, J. A., Compton, P., & **Liu, J.** (2022). Early childhood lead exposure and adolescent heart rate variability: A longitudinal cohort study. *Environmental Research*, 205, 112551.

This paper was published on Penn Nursing website and followed by media outlets such as Science Daily.

2. **Liu, J.,** Feng, R., Ji, X., Cui, N., Raine, A., & Mednick, S. C. (2019). Midday napping in children: associations between nap frequency and duration across cognitive, positive psychological well-being, behavioral, and metabolic health outcomes. *Sleep*, 42(9).

This paper was published on Penn Today on May 30, 2019 followed by many media outlets such as Science Daily.

3. **Liu, J.,** Cui, Y., Li, L., Wu, L., Hanlon, A., Pinto-Martin, J., Raine, A., & Hibbeln, J. (2017). The mediating role of sleep in the fish consumption – cognitive functioning relationship: a cohort study. *Scientific reports*, 7(1), 17961.

This finding was reported by Penn News on December 21, 2017 and 125 news outlets internationally, including CNN, Time, USA Today, The Sun, Daily Mail, New York Times, New York Post, TIME, US News, Science Daily, etc and received Altmetric score of 1380, which is in the top 5% of all research outputs scored by Altmetric.

4. **Liu, J., & Raine, A.** (2017). Nutritional status and social behavior in preschool children: The mediating effects of neurocognitive functioning. *Maternal & Child Nutrition*, 13(2). doi: 10.1111/mcn.12321. Epub 2016 May 1.

This paper was published in Penn News on May 5, 2016 followed by many media outlets, such as science daily.

5. **Liu, J.,** Liu X., Pak V., Wang Y., Yan C., Pinto-Martin J., & Dinges D. (2015). Early blood lead levels and sleep disturbance in preadolescence. *Sleep*, 38(12), 1869-1874, PMID: 26194570.

This paper was published on Penn News in December 2015 and multiple online media outlets, such as Science Daily, International Business Times, and Science Newsline.

6. **Liu J,** Liu X, Wang W, et al. (2014). Blood lead concentrations and children's behavioral and emotional problems: a cohort study. *JAMA Pediatrics*. 168(8):737-745.

This paper was published on Penn News on July 3, 2014 and multiple online media outlets, such as NIEHS New Release, NIH: Research Matter, and NIEHS: Environmental Factors

7. **Liu, J.,** Hwang, W.T., Dickerman, B., & Compher, C. (2013). Regular breakfast consumption is associated with increased IQ in kindergarten children. *Early Human Development*, 89(4), 257-262.

This paper was published in Penn News on Thursday, May 5th, 2016 followed by many media outlets, such as science daily.

CONSULTATION: RESEARCH/EDUCATIONAL (last 5 years)

Active (Role: Research Collaborations and Graduate/Doctoral Student Mentorship)

2010-Present Consultant, Shanghai Jiaotong University, Environmental Health, China

2009-Present Consultant, Graduate Students Thesis and Research. The Chinese University of Hong Kong, Department of Psychology, China

2003-Present Consultant, Research, Jintan Hospital, China

Past

2017-2021 Consultant, Nursing Education and Research: Shanghai University of Traditional Chinese Medicine Longhua Hospital, China

2006-2021 Consultant, School of Public Health, Southeastern University, China

2017-2018t Consultant, Research Design. Committee for Graduate Students thesis, Wuhan University School of Health Sciences and Nursing, China

2012-2017 Consultant, Research Design: Zhengjiang Maternal Child Health Hospital, China

2011 Consultant, Grant review, National Medical Research Council Ministry of Health, Singapore.

2008, 2017 Consultant, for Mater Students thesis, School of Nursing, Central South University, China

2012-2013 Consultant, for Mater Students thesis, School of Nursing, Nanjing Medical University, China

RECENT LECTURES BY INVITATION, SPEECHES AND WORKSHOPS

International Conference Talks, Workshops, and Podium Presentations (international conference may be located in the US)

1. **Liu, J** (Symposium Chair) Child and Adolescent Sleep: Conceptualization, Assessment, and implication (2021) *The 3rd Sleep Congress of Asian Society of Sleep (ASSM 2021)* Beijing, China
2. Dai, Y., **Liu, J.** (2021), Child Sleep Quality Trajectory and Its Protective Factors: Results from the Jintan Cohort Study, *The 3rd Sleep Congress of Asian Society of Sleep (ASSM 2021)* Beijing, China
3. **Liu, J.** (March 18, 2021) Panel. SAMHSA National Minority Fellowship Program Intensive Training Institute, Behavioral Health Policy Panelist. March 18, 2021
4. **Liu, J.** (August 16, 2019). Editors Panel. 2019 Asian American / Pacific Islander Nurses Association & Taiwan Nurses Association Joint International Conference, Taichung City, Taiwan.
5. **Liu, J.** et al. (June 6, 2018). Child Behavioral Problems Mediate the Relationship Between Maternal Emotions During The Prenatal And Postnatal Period And Kindergarten Children's Sleep Disturbances. SLEEP 2018, the 32nd Annual Meeting of the Associated Professional Sleep Societies, Baltimore, MD.
6. **Liu, J.** (February 9, 2018). Environmental Risks and Children's Health: the case of Lead Exposure. Talk at Challenges to Children's Welfare in Contemporary China Conference. University of Pennsylvania.
7. **Liu, J.** (December 26, 2017). Longitudinal research design in studying early health factors, environmental exposure on children and adolescents' behavioral outcomes. Talk at Wuhan University School of Health Sciences and Nursing. Wuhan, China.
8. **Liu, J.** (May 18, 2017). Global Environmental Health Field Trip Learning: Training the Next Generation. Talk at Southeastern University School of Public Health. Nanjing, China.
9. **Liu, J.** (April 25, 2017). Environmental Risks and Children's Health: Lead Exposure. Talk at Challenges to Children's Welfare in Contemporary China Conference. University of Pennsylvania.
10. **Liu, J.** (September 14-16, 2016). Lead and mercury exposure are associated with low resting heart rate in community children. Talk at 9th International Conference on Children's Health and the Environment. Barcelona, Spain.
11. **Liu, J.** (June 30, 2015). Leadership in Nursing Research: Environmental Risks and Children's Health – Lessons Learned in China and the United States. Talk at Nursing Leadership Across The Care Continuum Symposium at Penn Wharton China Center. Beijing, China.
12. **Liu, J.** (June 8, 2015). Blood Lead Levels In Early Childhood Are Associated With Sleep Problems In Later Childhood. SLEEP 2015, the 29th Annual Meeting of the Associated Professional Sleep Societies, Seattle, WA.
13. **Liu, J.** (August 7, 2014). Effects of Lead Exposure on Children's Cognitive Behavior: Jintan Children's Health Project. Jiangsu CDC, Nanjing, China.
14. **Liu, J.** (August 22, 2014). A birth cohort: Early risk and projective factors for child development. Talk at Zhengjiang Maternal Child Health Hospital. China.

15. **Liu, J.** (March 19, 2014). Prenatal factors for children's behavioural outcomes. Talk for Women's Health Academic Centre, King's Health Partners at St. Thomas' Hospital. King's College of London. London, England.
16. **Liu, J.** (November 2013). Sleep difficulties are associated with emotional problems and school performance in Chinese children. Talk at 2nd World Conference on Psychology and Sociology. Brussels, Belgium.
17. **Liu, J.** (October 1, 2013). Methodology and Challenges in Setting Up a Birth Cohort. Kings College of London Institute of Psychology. Collaborative working group meeting with Jennifer Lau and Patrick Leung to set up new birth cohort study. London, England.
18. **Liu, J.** (June 13, 2012). Early health risk factors on children's behavior. Talk at Beijing University School of Nursing for faculty and students. Beijing, China.
19. **Liu, J.** (June 25, 2011). Opportunities/challenges of conducting research in China. Talk at Shanghai Hotel for Penn Organizational Dynamics graduate students. Shanghai, China.
20. Achenbach, T., **Liu, J.**, Rescorla, L. (May 24, 2010). International workshop on Multicultural Research and Assessment of Psychopathology at Nanjing University. Nanjing, China.
21. **Liu, J.** (May 26, 2010). Longitudinal Approach to Studying Children's Behavioral Outcomes Concept and Methodology – China Jintan Cohort Study. Jintan, China.
22. Aiken, L., **Liu, J.** (July 31-August 5, 2009) Workshop with an international team in developing and organizing the China Medical Board Nursing Network Summer Research Doctoral Course. China.
23. **Liu, J.** (June 15-16, 2008). Training workshop for preschool and school nurses on nutrition and lead prevention in Jintan and led University of Pennsylvania students' engagement in international research field trip. China.
24. **Liu, J.** (June 27, 2008). Health and Environment Factors on Children's behavioral outcome. Talk at Shanghai Jiaotong University, Shanghai, China.

National and Regional Talks and Presentations

1. **Liu, J.** (November 2, 2020) Book Club: Effects of Lead on Child Brain and Behavior Development with Jianhong Liu and Marilyn Howarth – Center for Neuroscience & Society.
2. **Liu, J.** Jintan Cohort Study Summary and Recent Findings. Talk at 14th Annual CEET Symposium, University of Pennsylvania, May 2019.
3. **Liu, J.** (February 23, 2018). Talk at Penn's Accelerated Nursing "60 Seconds with a Professor" Panel. University of Pennsylvania School of Nursing.
4. **Liu, J.** (February 21, 2018). Dietary Nutrition and Children's Well-being: Research Findings from the China Jintan Cohort Study. Talk at Penn China Research Symposium. University of Pennsylvania.
5. **Liu, J.** (November 29, 2017). Lead Exposure and Child Health. Invited talk at Community Outreach and Engagement Core Stakeholder Advisory Board Meeting. University of Pennsylvania Center of Excellence in Environmental Toxicology.

6. **Liu, J.** (September 22, 2017). Early health factors and children/adolescent physical and mental health outcomes. Talk at PhD Open House Faculty Panel. University of Pennsylvania School of Nursing.
7. **Liu, J.** (January 27, 2017). Environmental Risks and Children's Health: Research Findings from the China Jintan Cohort Study. Talk at Penn China Research Symposium. University of Pennsylvania.
8. **Liu, J.** (September 23, 2016). Early health factors and children/adolescent physical and mental health outcomes. Talk at PhD Open House Faculty Panel. University of Pennsylvania School of Nursing.
9. **Liu, J.** (April 13, 2016). Community based participation in children's environmental health research: China Jintan Child Cohort Study. Healthy in Philadelphia Meeting. Philadelphia, Pennsylvania.
10. **Liu, J.,** Liu, L. & Liu, W. Second hand smoke exposure during pregnancy and anxiety disorder in children at age 11-13. The 77th Annual Scientific Meeting of the CPDD (the College on Problems of Drug Dependence), Arizona Biltmore Resort, Phoenix, Arizona, June 2015.
11. Cui, N. & **Liu, J.** The Effect of Low Blood Lead Concentrations on Working Memory in Chinese Children. 2015 Eastern Society for Pediatric Research Annual Meeting, Doubletree Hotel, Philadelphia, Pennsylvania, March 2015.
12. **Liu, J.** (September 19, 2014). Early health factors and children/adolescent physical and mental health outcomes. Talk at PhD Open House Faculty Panel. University of Pennsylvania School of Nursing.
13. **Liu, J.** Lead Exposure and Children's Neurobehavioral Outcomes. Jintan Cohort Study Summary and Recent Findings at 7th Annual CEET Symposium, University of Pennsylvania, May 2013.
14. **Liu, J.** (December 15, 2011). Environmental Toxicity and Child Behavior Problems. Talk at CEET Seminar. University of Pennsylvania.

MEETING/SEMINAR/WORKSHOP/ CONFERENCE ORGANIZING ROLES

- 2021 Symposium Chair, ASSM 3rd Congress of Asian Society of Sleep Medicine -- Child and Adolescent Sleep: Conceptualization, Assessment, and Neurobehavioral and Emotional Outcomes. May 2021.
- 2018 Co-organizer, the third Penn-Shanghai Jiaotong University Seminar/workshop on Environment Health and global application (along with Dr. Yan, the Deputy Director of Children Environment Science Shanghai Institute for Pediatric Research, Shanghai Jiaotong University). May 14-17th
- 2018 Co-chair, the 2st Penn-Longhua Hospital affiliated to Shanghai Traditional Chinese Medicine University: Joint workshop on Learning Traditional Chinese Medicine for Nursing Practice May 26.
- 2017 Chair, Traditional Chinese Medicine: Theories and Modalities in Nursing Applications Workshop. University of Pennsylvania. September 14.
- 2017 Co-chair, Penn-Southeastern University Global Health Workshop, Nanjing, China. May 18.
- 2017 Co-organizer, the Second Penn-Shanghai Jiaotong University Seminar/workshop on Environment Health and global application (along with Dr. Yan, the Deputy Director of Children Environment Science Shanghai Institute for Pediatric Research, Shanghai Jiaotong University) May 22-25.
- 2017 Co-chair, the 1st Penn-Longhua Hospital Joint workshop on Traditional Chinese Medicine Nursing Implications. May 26.
- 2015 Steering Committee, Nursing Leadership Across The Care Continuum Symposium at Penn Wharton China Center. Beijing, China. June 29-30.
- 2014 Chair, workshop on Study Design in Child Psychopathology Research, Zhengjiang, China. August 22.
- 2013 Co-chair, Birth Cohort Collaborative Meeting along with Dr. Jennifer Lau and Patrick Leung, London, England. October 1-2.
- 2010 Chair, China Jintan Cohort Study International Collaborative Meeting, Jintan China. May 26-27.

- 2010 Co-chair, Multicultural Research and Assessment of Psychopathology Workshop, Nanjing University, China. May 24.
- 2008 Co-organizer, the first Penn-Shanghai Jiaotong University Seminar/workshop on Environment Health and global application (along with Dr. Yan, the Deputy Director of Children Environment Science Shanghai Institute for Pediatric Research, Shanghai Jiaotong University) Summer
- 2004 Co-organizer, The Borchard Foundation Conference on Crime and Schizophrenia: Causes and Cures; A Tribute to Sarnoff A. Mednick and Peter H. Venables, Chateau de la Bretesche, Missillac, Brittany, France. Summer

TEACHING EXPERIENCE

Spring 2023 **Seminar Leader**, NURS 1030 Psychological and Social Diversity in Health and Wellness

Fall 2022 **Course Director**, NURS 3430 Exploring Traditional Chinese Medicine
Course Director, NURS 3270/5270 Foundation of Global Health
Supervisor, NURS 299 Independent Study: Exercise and Older Adults' Health Outcomes
Supervisor, NURS 299 Independent Study: Self-Reported Sleep Disturbances in Parkinson's Disease

Fall 2021 **Supervisor**, NURS 900 Doctoral Independent Study: Effectiveness of Vitamin D Supplementation on Internalizing Disorder Among Children, Adolescents, and Youth
Preceptor, NURS 897 Nursing Doctoral Research Residency: Pre-, Peri-, and Postnatal Factors of Child Sleep

Spring 2021 **Supervisor**, NURS 900 Doctoral Independent Study: Child Happiness and Sleep: Cohort Study

Fall 2020 **Course Director**, NURS 343/543 Introduction to Traditional Chinese Medicine
Course Director, NURS 327/527 Introduction to Global Health
Preceptor, NURS 897 Nursing Doctoral Research Residency: Lead Exposure and Executive Functioning

Fall 2019 **Course Director**, NURS 343/543 Introduction to Traditional Chinese Medicine

Fall 2018 **Course Director**, NURS 343 Penn Global Seminar: Introduction to Traditional Chinese Medicine
Preceptor, NURS 389 Nursing Research Residency

Spring 2018 **Course Director**, NURS 343 Penn Global Seminar: Environmental Health Issues and Global Implications
Preceptor, NURS 389 Nursing Research Residency

Fall 2017 **Preceptor**, NURS 389 Nursing Research Residency

Spring 2017 **Course Director**, NURS 343 Penn Global Seminar: Environmental Health Issues and Global Implications
Preceptor, NURS 299 Independent Study: Micronutrient Supplementation on Depression
Preceptor, NURS 299 Independent Study: Liquid Consumption, Sleep, and Cognitive Function
Preceptor, NURS 389 Nursing Research Residency

Preceptor, NURS 897 Nursing Doctoral Research Residency
Preceptor, NURS 995 Dissertation

Fall 2016 **Preceptor**, NURS 995 Dissertation
Preceptor, NURS 299 Independent Study: Air Pollution and Sleep Quality
Preceptor, NURS 299 Independent Study: Lead Exposure and Psychophysiology Function
Preceptor, NURS 299 Independent Study: Micronutrient Deficiency on Depression
Preceptor, NURS 389 Nursing Research Residency

Summer 2016 **Preceptor**, NURS 389 Nursing Research Residency

Spring 2016 **Preceptor**, NURS 389 Nursing Research Residency
Preceptor, NURS 995 Dissertation

Fall 2015 **Course Director**, NURS 677 / PUBH 530 Occupational and Environmental Toxicology
Preceptor, NURS 897 Nursing Doctoral Research Residency
Preceptor, NURS 299 Independent Study: Environmental Factors & Psychopathological Functions
Preceptor, ENVS 599 Independent Study: Reducing Lead Exposure - Making Rental Housing in Philadelphia Lead-Safe

Summer 2015 **Preceptor**, NURS 389 Nursing Research Residency

Spring 2015 **Preceptor**, NURS 389 Nursing Research Residency
Preceptor, NURS 897 Nursing Doctoral Research Residency
Preceptor, NURS 900 Directed Study: The Psychometric Test of the Youth Self-Report Sleep Questionnaire
Preceptor, NURS 900 Directed Study: Cumulative Risk Factors and Behavioral Problems in Childhood

Fall 2014 **Course Director**, NURS 677 / PUBH 530 Occupational and Environmental Toxicology

Spring 2014 **Preceptor**, BE 599 Independent Study: Principles of Psychophysiology

Spring 2013 **Preceptor**, NURS 299 Independent Study: Nursing in China
Preceptor, NURS 299 Independent Study: Pre- and Post- Natal Risk Factors for Children's Neurobehavioral Outcomes

Fall 2012 **Course Director**, NURS 677 / PUBH 530 Occupational and Environmental Toxicology
Preceptor, NURS 299 Independent Study: International Children's Environmental Health
Preceptor, BIOL 199 Independent Study: Serum copper level and children's working memory

Spring 2012 **Preceptor**, BE 099 Independent Study: Associations between Childhood IQ, Neurocognitive Performance, and Academic Performance

Fall 2011 **Course Director**, NURS 677 / PUBH 530 Occupational and Environmental Toxicology
Preceptor, NURS 299 Independent Study: Teenage pregnancy and Offspring's Behavior Problems

Preceptor, BE 099 Independent Study: Neurocognitive Performance of Chinese Schoolchildren: Construct Validation and Cross-Cultural Analysis

- Spring 2011 **Preceptor**, NURS 299 Independent Study: Nurse's Role – Promoting Schoolchildren's Knowledge of Nutrition and Healthy Lifestyles
- Fall 2010 **Course Director**, NURS 677 / PUBH 530 Occupational and Environmental Toxicology
- Spring 2010 **Recitation Leader**, NURS 051 Human Development
- Spring 2009 **Course Director**, NURS 500 / PUBH 502 Introduction to Principles and Methods of Epidemiology

MEMBERSHIPS IN PROFESSIONAL & SCIENTIFIC SOCIETIES & OFFICES HELD

- 2022 – Present Member, International Parkinson and Movement Disorder Society
- 2022 – Present Member, American Aging Association
- 2015-Present *Member*, Sleep Research Society
- 2015-Present *Member*, International Network on Children's Health, Environment and Safety
- 2015-Present *Member*, International Society for Children's Health and the Environment
- 2011-Present *Member*, American Academy of Nursing
- 2009-Present *Member*, Public Health
- 2009-Present *Member*, Society of Adolescent Research
- 2007-Present *Member*, Society of Toxicology
- 2004-Present *Member*, International Society for the Study of Behavioral Development
- 1999-Present *Member*, Sigma Theta Tau International
- 2011-Present *Member*, American Nurses Association

SELECTED PROFESSIONAL SERVICE AND ACTIVITIES

American Academy of Nursing

- 2011-Present Child Adolescent Family Expert Panel
- 2011-Present Environmental & Public Health Expert Panel
- 2017-Present Leader, Climate Change and Mental Health Policy Brief-in progress
- 2017-2019 Co-Leader, Policy Brief on "[Preventing adverse health outcomes among children and adolescents by addressing screen media practices concomitant to sleep disturbance](#)" policy brief
- 2017-2018 Contributor to Building mental health and caring for vulnerable children: Increasing access, equity and prevention Policy Brief

External Grant Reviewer (last 5 years)

- 2020 Ad hoc member NIH/NIEHS study section review panel for K99/R00
- 2020 Ad hoc member NIH/NIEHS study section review panel for K99/R00 study section review panel for Training and Education Review Panel (July 30, 2020)
- 2019 Invited Reviewer, NIEHS Training and Education Review Panel -ZAT1 AJT(10)
- 2016 Invited Reviewer, NIEHS R13 Review Panel
- 2011 Invited Reviewer, National Medical Research Council Ministry of Health, Singapore

Editorial Activities

2018-Present Research in Nursing & Health, Associate Editor

Reviewer for the following journals:

- 2023 Geriatric Nursing
- 2022 Research in Nursing & Health
- 2022 Intelligence
- 2022 Research on Child and Adolescent Psychopathology

2021 Environmental Research
 2020 Journal of Affective Disorders
 2020 Behavioral Sleep Medicine
 2020 Nutrient
 2019 Asian Journal of Psychiatry
 2019 Journal of Affective Disorders
 2019 Nutrient
 2018 International Journal of Hygiene and Environmental Health, Ad hoc Reviewer
 2017 Clinical Nursing Research, Ad hoc Reviewer
 2017 Journal of Abnormal Child Psychology, Ad hoc Reviewer
 2016-2017 Violence and Victims, Ad hoc Reviewer
 2016-2017 Journal of Psychiatry Research, Ad hoc Reviewer
 2016-2017 World Journal of Pediatrics, Ad hoc Reviewer
 2016 Journal of Pediatrics, Ad hoc Reviewer
 2016 Psychiatry Research, Ad hoc Reviewer
 2015-2016 The American Journal of Psychiatry, Ad hoc Reviewer
 2015 International Journal of Public Health, Ad hoc Reviewer
 2015 Nutrients, Ad hoc Reviewer
 2015 Preventative Medicine Reports, Ad hoc Reviewer
 2014-2015 Neurotoxicology and Teratology, Ad hoc Reviewer
 2013 Environment Health, Ad hoc Reviewer
 2012-2013 Academic Medicine, Ad hoc Reviewer
 2012 BioMedCentral Public Health, Ad hoc Reviewer
 2010-2011 Aggression and Violent Behavior, Ad hoc Reviewer
 2010-2011 British Medical Journal, Ad hoc Reviewer
 2010 Archive of General Psychiatry, Ad hoc Reviewer
 2010 Development & Psychopathology, Ad hoc Reviewer
 2009-2010 Nicotine & Tobacco Research, Ad hoc Reviewer
 2009 Psychological Medicine, Ad hoc Reviewer

Asian American / Pacific Islander Nurses Association, (AAPINA)

2018-Present Bylaws committee member

Children's Hospital of Philadelphia

2019 Poster Judge for CHOP Research Institute Poster Day & Scientific Symposium

SERVICE ACTIVITIES AT CURRENT PLACE OF EMPLOYMENT

University of Pennsylvania (University-Wide)

Active

2021-Present Provost Environmental Innovations Initiative

2021-Present Penn Global / China Education Initiative

2018-2021 At-Large Representative, Senate Executive Committee

2014-Present Member, Penn Wharton China Center, University of Pennsylvania

2014-Present Member, Training Grant Executive Committee, Center of Excellence in Environmental Toxicology

2008-Present Senior Fellow, Center for Public Health Initiatives (CPHI)

2007-Present Member, Center of Excellence in Environmental Toxicology and Community Engagement Core Group

Past

2015-2021 Senior Fellow, Penn FLI; Facilitation of Penn Nursing and Fox Leadership Collaboration; Mentored Penn Nursing Students in Fox Leadership Program, Coordinated Fox Leadership International Program China Visit

- 2016 Member, Penn's EVP in welcoming Chinese ambassador's visit to Penn
- 2015 Involved in Penn Futures Initiative: Investing in Children and Communities, University of Pennsylvania
- 2012-2016 Global Initiatives China Regional Meeting with Vice Provost Ezekiel Emanuel
- 2011 Collaborator, activities under leadership of Dr. Linda Aiken and Dean Meleis on the establishment of formal academic partnership in nursing between University of Pennsylvania and Peking University in China
- 2008-2009 Global Health Initiatives with Dr. Brian L. Strom's group on international partnerships: China

School of Nursing Leadership

- 2016-Present Faculty Director Global Health Minor Program
- 2019-2020 Chair, PhD Curriculum Committee
- 2019-2020 Chair, PhD Curriculum Competency Mapping Faculty Taskforce
- 2019-2020 Co-Chair (1 of 3), Global and Community Strategic Planning Taskforce
- 2015-2017 Chair, Undergraduate Curriculum Committee

School of Nursing Committees

- 2022-present Member, Undergraduate Curriculum Committee
- 2020-present Member of Personnel
- 2019-Present Member, Biobehavioral Research Collaborative
- 2018-Present Member, Graduate Group
- 2017-Present Member, Graduate and Professional Curriculum Committee
- 2014-2017 Member, Undergraduate Curriculum Committee
- 2012-2015 Member, PhD Admissions Committee
- 2010-2013 Member, Graduate Curriculum Committee
- 2008-2010 Member, By-laws Committee

School of Nursing Task Forces

- 2019-2020 Member, Responsible Pedagogy Taskforce
- 2015-2017 Member, Mapping the Global and Community Competencies
- 2011-2012 Member, Student Awards Taskforce
- 2009-2010 Member, Undergraduate Curriculum Revision Task Force - Community Health Workgroup
- 2010-2011 Member, Master Curriculum Review Task Force- Family Nurse Practitioner Program

School of Medicine Committees

- 2007—2012: Masters in Public Health Curriculum Committee

DOCTORAL DISSERTATION COMMITTEES AND POST DOCS MENTORED

- | | | |
|------|------------------|--|
| 2023 | Chair/Supervisor | Ying Dai.
<i>Pregnancy and Childbirth Risk Factors, Social Adversity, and Children's Sleep Problems: Results from Two Cohort Studies</i>
School of Nursing, University of Pennsylvania |
| 2021 | Chair/Supervisor | Olivia Arnold.
<i>Lead Exposure and Executive Function</i>
School of Nursing, University of Pennsylvania. |
| 2020 | Committee Member | Jiansol Lee
<i>Intelligence, Social Competence, and Academic Performance in Chinese Children</i>
School of Nursing, University of Pennsylvania. |

2017	Chair/Supervisor	Naixue Cui. <i>Child Maltreatment, Behavior Problems, And Neurocognition: Main and Mediation Effects.</i> School of Nursing, University of Pennsylvania.
2017	Chair/Supervisor	Xiaopeng Ji. <i>Serum Micronutrient Status, Sleep and Neurobehavioral Function in Early Adolescents: A Cohort Study.</i> School of Nursing, University of Pennsylvania.
2017	Committee Member	Sangmi Kim. <i>The Role of Chronic Stress in Age Gradients of Preterm Birth among Racial/Ethnic Groups.</i> School of Nursing, University of Pennsylvania
2015	Reader	Yaelim Lee. <i>Stress and Premenstrual Symptoms: A Web-Based Causal-Comparative Study On Korean Women Studying In the U.S. and South Korea.</i> School of Nursing, University of Pennsylvania.
2013	Reader	Lit Soo Ng. <i>Perceived Stress and Autonomic Nervous System Measures: Is There A Relationship And Is It Mediated By Sleep Quality?</i> School of Nursing, University of Pennsylvania

POSTDOC Mentorship

Yuanyuan An, Gu Wang, Ailing Ji, Haixia Gao

MASTER DISSERTATION COMMITTEES

2022	Supervisor/Mentor	Stacey Bevan <i>Mental health in the China Jintan Child Cohort: Multi-informant report and prenatal risk factors of autism spectrum disorder associated behaviors over children's development</i> Statistics and Data Science Program, Wharton, University of Pennsylvania
2022	Supervisor/Mentor	Ying Dai <i>Neighborhood predictors of child short sleep duration and bedtime irregularity</i> Statistics and Data Science Program, Wharton, University of Pennsylvania
2020	Supervisor/Mentor	Claire Hung-Tzu Tai <i>Reduction in Internalizing Behavior Problems with Omega-3 Supplementation in Young Adolescents, aged 11-12 years with Reactive-Aggression Tendency: a randomized, single-blind, stratified, 4x4 trial</i> Graduate School of Education, University of Pennsylvania
2016	Supervisor/Mentor	Tianpeng Ye. <i>Evaluation of the factor structure of the Adolescent Stress Questionnaire in Chinese adolescents.</i> Graduate School of Education, University of Pennsylvania.

- 2016 Supervisor/Mentor Qiao Xin.
Factor structure of the cognitive, affective, and somatic empathy scale.
Graduate School of Education, University of Pennsylvania
- 2016 Supervisor/Mentor Xiaopeng Ji
Approaches to Address Missing Data in Health Studies: An Empirical Comparison
Statistics and Data Science Program, Wharton, University of Pennsylvania
- 2016 Supervisor/Mentor Naixue Cui
Using propensity score matching with doses in observational studies: An example from a child physical abuse and sleep quality study
Statistics and Data Science Program, Wharton, University of Pennsylvania
- 2015 Supervisor/Mentor Jingjing Wang.
Examining Prenatal Environmental Tobacco Exposure on Children's Later Behavior Outcomes.
Drexel School of Public Health.
- 2015 Supervisor/Mentor Fenfen Wang
Micronutrient Status and Anxiety.
West Chester University

2010-Present Co-mentor with Dr. Patrick Leung for master's Psychology students in in The Chinese University of Hong Kong for their dissertations
(Halina Cheng, Christa Kwok, Natalie Yeung, Clare Chan, Po Yi Wong, Florence Ng, Vivian Ng, Ho, Chun Kit; Wan, Yau; Guan, Yiqing; Fang, Xun)
2021-June: Guan, Yiqing; Ho, Chun Kit; Wan, Yau; Fang, Xun

MENTORED PROFESSIONALS

Current doctoral students (in SON, we have a co-advisor system)

- 2022-Present Priscilla Liu, Ph.D. student, School of Nursing (**co-advisor**)
2020-Present Yiqi Wang, Ph.D student, School of Nursing (**co-advisor**)
2019-Present Ying Dai, Ph.D. student, School of Nursing (**co-advisor**)
2017-Present Stacey Bevan, Ph.D. student, School of Nursing (**co-advisor**)

Current graduate mentees/interns/capstone

- 2022-Present Eric (Sicheng) Chen, Kexin Chen, Fiona (Qianqian) Zhang, Selina (Ziwei) Pan, Cindy (Xinyu) Hou, Jierui Li; Penn Graduate School of Education
2022-Present Haoer Shi, Penn School of Engineering
2020-2021 Haoyuan Gao, School of Public Health, Temple University
2018-2021 Claire Hung-Tzu Tai, Penn Graduate School of Education
2019-2021 Elizabeth Rovit, Penn Master of Public Health

Current undergraduate research mentees

- 2022-present Bianca Rodriguez, Yi (Ella) Yang, Jennifer (Yanjun) Zhou, Tracey (Yuting) Zhu, Isabelle Kowal, Aurora Yuan, Rahma Osman, College of Arts and Sciences
2021-present Alice Zhang, School of Nursing
2021-Present Jan Magielski, College of Arts and Sciences
2020-Present Meg Gladieux, College of Arts and Sciences

Current and past visiting scholars/postdoc (last 5 years)

2022-present Chloe Liu, Zhejiang University (co-advisor with the School of Medicine)
2020-2021 Nana Ouyang, Guangzhou Hospital
2019- Yuanyuan An, Nanjing Normal University
2018-2019 Ju Wang, Shanghai Jiaotong University, China
2017-2018 Shupeng Shi, Shanghai Fudan University, Children Hospital, China
2016-2017 Fanghong Dong, Hebei University School of Nursing Faculty, China
2016-2017 Qiuzi Sun, Shanghai University of Traditional Chinese Medicine Nurse Manager, China
2015-2016 Yuli Li, Shandong University, School of Nursing, China
2015-2015 Jia Li, School of Medicine, Jinhua Polytechnic College, Jinhua, Zhejiang, China
2013-2014 Ailing Ji, Fourth Military Medical University, Xi'an, China

Past graduate mentees/interns/capstones more than 50

Past undergraduate mentees: more than 100