

LINGYI QIU, Ph.D., M.Arch., EDAC.

Assistant Professor | College of Architecture | Texas Tech University

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EDUCATION

- 2021 **Ph.D. in Architecture**, Texas A&M University.
Dissertation Fellow 2020-2021, Texas A&M University.
Certificate for Health Systems & Design, Texas A&M University.
Chair: Dr. X Zhu; Committee Members: Drs. M Clayton, C Lee, and S Van Zandt
- 2009 **M.Arch.**, School of Architecture and Urban Planning, Beijing University of Civil Engineering and Architecture, Beijing, China.
- 2006 **Bachelor**, 5-year Architecture Program, School of Architecture and Urban Planning, Suzhou University of Science and Technology, Jiangsu, China.
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PROFESSIONAL APPOINTMENTS / EMPLOYMENT

- 2021-
present **Assistant Professor**, College of Architecture, Texas Tech University.
- 2021-2022 **Teaching Assistant Professor**, School of Architecture, University of Illinois at Urbana-Champaign.
- 2016-2020 **Graduate Assistant Teaching**, Department of Architecture, Texas A&M University.
- 2017 Fall &
2018 Fall **Instructor of Record**, Department of Architecture, Texas A&M University.
- 2012-2015 **Assistant Professor**, Department of Architecture, Nantong University, China.
- 2009-2012 **Lecturer**, Department of Architecture, Nantong University, China.
- 2005-2005 **Assistant Architect (Intern)**, Shanghai Branch of China Electronics Engineering Design Institute (CEEDI), Shanghai, China.
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HONORS AND AWARDS (SELECTED)

- 2022 Spring **Teachers Ranked as Excellent by Their Students**, University of Illinois at Urbana-Champaign.
- 2020-2021 **Dissertation Fellowship Award**, Office of Graduate and Professional Studies, Texas A&M University.
- 2020-2021 **Gunter W. Koetter '40 Endowed Memorial Scholarship in Architecture**, Department of Architecture, Texas A&M University.
- 2020 **Second Place Award, Best in Show Poster Presenter**, Natural Built Virtual 20: College of Architecture Research Symposium, College of Architecture, Texas A&M University.

- 2019 **Graduate Student Research and Presentation Travel Award**, Office of Graduate and Professional Studies, Texas A&M University.
- 2019-2020 **Kelly Vrooman Endowed Scholarship**, Department of Architecture, Texas A&M University.
- 2018-2019 **Kelly Vrooman Endowed Scholarship**, Department of Architecture, Texas A&M University.
- 2017 **Edward J. Romieniec Graduate Travel Fellowship**, Department of Architecture, Texas A&M University.
- 2016-2020 **Graduate Assistantship**, Department of Architecture, Texas A&M University.
- 2015-2016 **Graduate Program Scholarship**, College of Architecture, Texas A&M University.
- 2014 **Second Place Award, 2014 Junior Faculty Teaching Competition**, Nantong University, Jiangsu, China.
- 2014 **First Place Award, 2014 Junior Faculty Teaching Competition**, College of Architecture and Civil Engineering, Nantong University, Jiangsu, China.
- 2011 **First Place Award, Paper Competition on Innovation and Development** (collaborated with Tinjin Wu, an undergraduate student in Architecture), Chinese Society for Urban Studies, Beijing, China.
- 2011 **Excellent Teaching Award for Undergraduates' Extracurricular Scientific and Technological Activity**, College of Architecture and Civil Engineering, Nantong University, Jiangsu, China.
- 2010 **Natural Science Grant for Junior Faculty, Nantong University Natural Science Fund**, Nantong University, Jiangsu, China. Selected based on the competitive research proposal.
- 2006 **First Place Award, Freshman Scholarship**, Suzhou University of Science and Technology, Jiangsu, China.

TEACHING EXPERIENCE

Assistant Professor, College of Architecture, Texas Tech University.

2022 Fall Teaching 4th year Design Studio ARCH 4601
6 credits

The purpose of this fourth-year studio is to develop and integrate students' architectural abilities to design a rehabilitation center for people recovering from strokes. The project will be submitted as an entry to the International Union of Architects Public Group international design competition. The building will be expected to have specific features that enhance health and wellness and decrease the polluting effects of architecture.

Teaching ARCH 5301 Special Problems in Architecture: Social and Behavioral Research in Designed Environments for Health and Wellness

3 credits

This course introduces the social and behavioral factors in environmental design by explaining how environments impact human behavior and health, and how people perceive, use, and adapt to the environments. While the course will provide students with a general overview of research fundamentals and cover specific research methods for generating empirical data in programming,

designing, and examining physical environments. This course will also discuss design for health issues for various types of environments and vulnerable populations.

Teaching Assistant Professor, School of Architecture, University of Illinois at Urbana-Champaign.

2022 Taught Junior Design Studio ARCH 372 *Designing for Human Well-being**

Spring 6 credits

Section enrolled students: 12

ARCH 372 focuses on design outcomes and the person-environment relationships that improve well-being. Students explore nested environmental scales, human and built context, natural environment systems, cultural perspectives, multi-sensory perception, and widely accessible, enabling, and inclusive environments. This course introduces design projects as discrete places within and influenced by broader physical, social, cultural, and economic systems.

Taught ARCH 522 *Advanced Research in Environment, Architecture and Global Health* 4 credits

Enrolled students: 11

ARCH 522 examines seminal and current research at the intersection of environmental conditions and human health around the globe. It introduces the research knowledge and evidence-based approaches for creating user-centered healthy environments.

2021 Fall Taught ARCH/LA 563 *Social and Behavioral Research Designed Environments*

4 credits, online

Enrolled students: 17

ARCH/LA 563 introduces the generation of research questions, research methodologies for specific question types, and research methods appropriate to the study of “designed” environments at a range of scales.

Taught ARCH 521 *Advanced Topics in Environment, Architecture and Global Health*

4 credits, co-teaching

Enrolled students: 16

ARCH 521 addresses topics at the intersection of environmental conditions and human health around the globe and engages students in reading, discussing, and applying the results of the latest research and translational studies linking environmental design to health in a range of diverse cultural contexts.

Instructor of Record, Department of Architecture, Texas A&M University.

2017 Fall & Taught core curriculum ARCH 212 *Social and Behavioral Factors in Design*

2018 Fall 3 credits

Enrolled students: 173 in 2017 Fall & 205 in 2018 Fall

Social and Behavioral Factors in Design discusses social and behavioral factors in the built and natural environment; environmental perception and spatial cognition; social-environmental processes such as privacy and crowding; setting-oriented discussion on residences, education, and the workplace; the psychology of nature and natural resource management; social design and social science contribution to architectural design.

Graduate Assistant Teaching, Department of Architecture, Texas A&M University.

*Students from my studio session won both the First Place and Second Place of Earl Prizes, which are awarded for design excellence of undergraduate studios by Illinois School of Architecture.

2016-2020 Assisted with core curriculum ARCH 212 *Social and Behavioral Factors in Design*
3 credits
Instructor: Dr. Xuemei Zhu (2016 Fall, 2017 Spring & 2018 Spring)
Instructor: Dr. Zhipeng Lu (2019 Spring, 2019 Fall & 2020 Spring)
Enrolled students: 179 in 2016 Fall, 125 in 2017 Spring, 90 in 2018 Spring, 65 in 2019 Spring, 145 in 2019 Fall, 65 in 2020 Spring

Assistant Professor & Lecturer, Department of Architecture, Nantong University, Jiangsu, China.

2009-2015 Taught curriculum Architectural Design (I) for 2nd-year undergraduate students
Every Fall 7 credits
semester *Architectural design (I)* is an introductory and required course for Architecture-majored students. It provides a preliminary understanding of the basic knowledge and general principles, design methods, and the procedure of the architectural design. Students are expected to master the basic skills of appropriate graphic and model building techniques through two design projects, such as Villa Design and Tea House Design.

2009-2015 Taught curriculum Architectural Design (II) for 2nd-year undergraduate students
Every 7 credits
Spring *Architectural design (II)* is a required course for Architecture-majored students. Through this course, students gain an in-depth understanding of design principles, learn the relationships between function and form as well as space and structures. Based on the understanding, students further practice the design skills through design projects such as Kindergarten Design and Community Center Design.

2014 Spring Taught curriculum Architectural Design (Final Project) for 5th-year undergraduate students
& 2015 17 credits
Spring *Architectural Design (Final Project)* is the final course required for Architecture-majored students before the completion of the program. Each student is expected to provide a design of a large public building reflecting the application of verbal, graphic, research, critical thinking, and comprehensive design skills.

2009 Fall & Taught curriculum Architectural Criticism for 3rd-year undergraduate students
2010 Spring 2 credits
Architectural Criticism is an elective course for Architecture majors. It introduces the classification and forms of classical architecture, the history of modern architectural schools, and the architectural movements, etc.

2011-2015 Taught curriculum Architectural Design & Construction for undergraduate students
majored in Engineering Management & Civil Engineering
4 credits
Architectural Design & Construction describes the basic principles of architectural design. Students learn the theory of architecture and structure, understand the composition of a building, and master the skills of construction drawings.

RESEARCH EXPERIENCE

Team Member

2019- Present Assisting with research project “*Innovative K-12 School Design for Improved Learning and Health*”
Principal Investigator: Zhu
Texas A&M University T3-Triads for Transformation. \$30,000.

This cross-sectional study examines the impacts of K-12 school environments on students' physical activity (PA). Schools will be sampled from major cities in Texas to represent diverse socio- demographic and environmental characteristics. Findings from this study will reveal the roles of school environments on students' PA and inform future design and planning of K-12 schools.

Dissertation, Department of Architecture, Texas A&M University.

2015- 2021 Lingyi's dissertation study "*Impacts of Housing and Neighborhood Environments on Children's Independent Mobility*" is a cross-sectional study using mixed methods. It is an interdisciplinary topic, investigating the impacts of housing and neighborhood environments on children's independent mobility (CIM)—home-based independent travel to non-school destinations and unsupervised outdoor play, while also accounting for the roles of personal and social factors. A bilingual survey was developed and used to collect self-reported data. Geographic Information Systems (GIS) and field or Google Street View audit are used to assessing relevant objective environmental features. Binary logistic regressions and structural equation modeling are applied for data analysis. Design strategies are proposed based on study findings to help address environmental features of housing design and neighborhood planning that can promote CIM and help create child-friendly environments.

Core Member (Student Participant) of Research Team, College of Architecture & Center for Population Health & Aging, Texas A&M University.

2020- 2021 Assist with School of Innovation [X] project "*COVID-19 for Vulnerable Populations: Longitudinal Study on Evolving Community Impacts among Affordable Housing Residents and Roles of Physical and Social Environments*"

Team Leaders: Zhu & Lee

Team Contributor: Ory

School of Innovation, Texas A&M University.

This cross-sectional and longitudinal study aims to understand (1) how COVID-19 affects the daily living and health of affordable housing residents in Austin, Texas; and (2) how physical and social environments help or deter the COVID-19 coping process in this vulnerable high-risk population.

Research Assistant, College of Architecture, Texas A&M University.

2018- present Assisting with research project "*Physical Activity Impacts of a Planned Activity-Friendly Community: The What, Where, When and Why of Environmental Approaches to Obesity Prevention*" (R01CA197761) (2016-2020)

Principal Investigators: Ory, Zhu, & Lee

National Institutes of Health (NIH). \$2,684,000.

This case-control, longitudinal study examines the short- and long-term impacts of moving into a walkable community on residents' physical activity and health. It also investigates the underlying mechanisms for related changes and the roles of environmental factors.

2019-2020 Assisted with research project "*Health Promotion through Green and Affordable Housing*"
Principal Investigator: Zhu

Texas A&M University T3-Triads for Transformation. \$35,000.

This study evaluates affordable housing related interventions in City of Austin for their impacts on health, sustainability, and affordability. The results will inform both

governmental agencies and non-governmental organizations about creating green, healthy, and affordable housing.

- 2017 Assisted with research project “*Healthy Workplace, Healthy Employees: Impacts of Work Environment on Employees’ Health and Productivity*”
Principal Investigator: Zhu
Texas Mutual Insurance. \$15,000.
This study examines the work environment and health programs at Texas Mutual Insurance for their impacts on employees’ physical activity, health, and productivity.

Principal Investigator, Nantong University, Jiangsu, China.

- 2010- 2012 *Public Space Design in Nantong City According to the Climate Change*
Nantong University Natural Science Fund, Nantong University, Jiangsu, China. ¥ 6,000.
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PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

Qiu, L., & Zhu, X. (2021). Housing and Community Environments vs. Independent Mobility: Roles in Promoting Children’s Independent Travel and Unsupervised Outdoor Play. *International Journal of Environmental Research and Public Health*, 18(4), 2132.

Zhu, X., Yoshikawa, A., **Qiu, L.**, Lu, Z., Lee, C., & Ory, M. (2020). Healthy workplaces, active employees: A systematic literature review on impacts of workplace environments on employees’ physical activity and sedentary behavior. *Building and Environment*, 168, 106455.

Qiu, L., & Zhu, X. (2017). Impacts of Housing and Community Environments on Children’s Independent Mobility: A Systematic Literature Review. *The New ARCH*, 18, 43.

Qiu, L., & YUAN, C. (2014). The Research of the Outdoor Wind Environment at the Public Space: A Case Study in Nantong. *Jiangsu Construction*, 2, 004. (In Chinese)

Qiu, L., & YUAN, C. (2011). The Architectural Design Concept Based on Wind Environment. *Jiangsu Construction*, 5, 006. (In Chinese)

Qiu, L. (2011). Study on the Thermal Environment Control Method of the Internal Vertical Space of Building— —On the Negative of Atrium Space in the Chamber and Its Improvements. *Anhui Architecture*, 4, 008. (In Chinese)

NON-PEER-REVIEWED JOURNAL ARTICLE

Hao, X., Zhu, X., **Qiu, L.**, Zhang, H., Lee, JT., Jiang, L., & Lu, Z. (2017). Overview of Salon Themed on healthy communities in the future. *Urbanism and Architecture*, 2017(9), 6-15. (In Chinese)

ESSAY IN BOOK

Zhang, L., Jin, Q., **Qiu, L.**, et al. (2008). Between Left and Right—Architects’ Irrational and Rational Thinking. In *Jianyuan Wenxin: Collection of Architectural Review and Analysis Essays*. Beijing: China Electric Power Press. (In Chinese)

PEER-REVIEWED CONFERENCE PRESENTATIONS

ORAL PRESENTATIONS

Zhu, X., Lee, H., Lee, C., **Qiu, L.**, & Hegde, M. (2021, April 6). *Active Living in the Context of Affordable Housing and COVID-19 Pandemic*. Active Living Conference 2021. Virtual.

Qiu, L. & Zhu, X. (2020, November 8). *Physical Environment vs. Independent Mobility: Exploring Correlates for Children's Independent Travel and Unsupervised Outdoor Play*. 2020 60th Association of Collegiate Schools of Planning (ACSP) Annual Conference, Virtual.

Zhu, X., **Qiu, L.**, & Lee, H. (2020, February 2-5). *Understanding Active School Commute: Multi-level Correlates and Association with Independent Mobility and Physical Activity*. Active Living Conference 2020. Orlando, FL.

Qiu, L. & Zhu, X. (2019, May 23). *Housing and Neighborhood Environments and Children's Independent Mobility: A Pilot Study and Test-Re-test Reliability of an Instrument*. The 50th Environmental Design Research Association (EDRA) Conference, Brooklyn, New York.

Zhu, X., Yoshikawa, A., **Qiu, L.**, & Lu, Z. (2019, May 24). *Design for Active Living in and Around Buildings: Look Back and Look Forward Using Workplace and School as Examples*. The 50th Environmental Design Research Association (EDRA) Conference, Brooklyn, New York.

Zhu X, Yoshikawa A, **Qiu L.**, Lu Z, Lee C, & Ory M. (2018, February 11-14). *Healthy Workplace, Healthy Employees: Status of Knowledge and Suggestions for Future Research and Practice*. Active Living Research Annual Conference 2018. Banff, Canada.

Qiu, L. & Zhu, X. (2017, June 8). *Impacts of Housing and Community Environments on Children's Independent Mobility*. The 4th International Architecture Conference with Awards (S. ARCH), Hong Kong, China.

POSTER PRESENTATIONS

Qiu, L. & Zhu, X. (2020, May 5-6). *Physical Environment vs. Independent Mobility: Exploring Correlates for Children's Independent Travel and Unsupervised Outdoor Play*. Poster accepted by 2020 Health in Buildings Roundtable (HiBR) Conference, Bethesda, MD.

Qiu, L. & Zhu, X. (2020, February 2-5). *Unsupervised Play Among Elementary School Children in Relation to Housing and Neighborhood Environments: A Cross-sectional Study*. Active Living Conference 2020. Orlando, FL.

Qiu, L. & Zhu, X. (2020, February 2-5). *Impacts of Housing and Neighborhood Environments on Children's Independent Travel to Non-school Destinations: Findings from Elementary Schools in Austin, Texas*. Active Living Conference 2020. Orlando, FL.

Zhu, X., Yoshikawa, A., **Qiu, L.**, & Lu, Z. (2020, February 2-5). *Innovative K-12 School Design for Active and Healthy Students: Status of Knowledge and Suggestions for Future Research and Practice*. Active Living Conference 2020. Orlando, FL.

Zhu, X., Yoshikawa, A., **Qiu, L.**, Lu, Z., Lee, C., & Ory, M. (2018, July 19-20). *Healthy Workplaces for Active Employees: Impacts of Workplace Physical Environments on Employees' Physical Activity and Sedentary Behavior*. 2018 Health in Buildings Roundtable (HiBR) Conference, Bethesda, MD.

Kellstedt, D., **Qiu, L.**, Zhu, X., Spengler, J. O., Lee, C., & Ory, M. (2018, March 3-7). *Impacts of Workplace Environment on Physical Activity: A Qualitative Examination*. American Academy of Health Behavior (AAHB) 18th Annual Scientific Meeting, Portland, OR.

INVITED PRESENTATION

Qiu, L. & Zhu, X. (2020, October 23). *Impacts of Housing and Neighborhood Environments on Children's Independent Mobility*. Fall 2020 Health Industry Advisory Council, Center for Health System & Design, Texas A&M University, College Station, TX.

REVIEW SERVICE

- 2021 **Journal reviewer**, *Journal of Housing and the Built Environment*, Springer Nature, New York, US.
- 2018 **Conference reviewer**, *the 50th Environmental Design Research Association (EDRA) Conference: Research, Design, and Planning for the Next 50 Years*, Brooklyn, New York.