

Dalin LYU

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EDUCATION

The University of Hong Kong

2026 - 2030 (Expected)

Ph.D. Student, Division of Landscape Architecture

Hong Kong SAR

- *Major Honor*: HKU Presidential PhD Scholarship (HKU-PS)
- *Supervisor*: Dr. Bin Chen
- *Lab*: Future Urbanity & Sustainable Environment (FUSE) Lab

Tsinghua University

2024 - 2026

Master of Architecture, School of Architecture

Beijing, CN

- *GPA*: 4.00/4.00 (100/100) | *Ranking*: 1/104
- *TOEFL*: 115/120
- *Major Honor*: Distinguished Graduate (Highest honor, top 1%); Distinguished Master's Thesis (Top 5%)
- *Supervisor*: Prof. Weimin Zhuang (Academician, Chinese Academy of Engineering)
- *Main Courses*: Big Data & Urban Planning (A+); Theories of Urban Design (A+); Design Studio (A+); An Introduction to Environmental Behaviour-research Method (A); Research Methodology for Built Environment (A);
- *Thesis*: Multisensory Synergistic Stress Recovery of Hospital Staff: Research on Beijing Huaxin Hospital Design

Tsinghua University

2020 - 2024

Bachelor of Architecture, School of Architecture

Beijing, CN

- *GPA*: 3.95/4.00 (98.75/100) | *Ranking*: 2/106
- *Major Honor*: Distinguished Undergraduate (Highest honor, top 1%); National Scholarship (Top 1%)
- *Main Courses*: Architectural Design (5/11 A+, 5/11 A); Residential Area Planning and Housing Design (A+); Urban Design (A); Architecture, City, Landscape Design (A)
- *Graduation Project*: A Commercial Concept Renovation Design of Guangzhou Cigarette Factory (A+, ranked No.1)

PUBLICATIONS

Published Papers † Co-first Author; * Corresponding Author

- [1] **Lyu, D.**, Cong, H., Zhu, S., Liu, Y., & Zhuang, W. (2026). Healing with sight, smell and sound: A virtual reality study on multisensory synergistic stress recovery in hospital staff break spaces. *Building and Environment*, 114587. (IF=8.4) <https://doi.org/10.1016/j.buildenv.2026.114587>
- [2] **Lyu, D.**, Liu, Y., Cong, H., & Zhang, L. (2026). Visual fidelity of different immersive displays: An evaluation based on psychophysiological human responses to virtual built environments. *Frontiers of Architectural Research*. (IF=4.4) <https://doi.org/10.1016/j.foar.2025.11.006>
- [3] Xu, W.[†], **Lyu, D.[†]**, Wang, W., Feng, J., Gao, C., & Li, Y. (2025, July). Defining and evaluating visual language models' basic spatial abilities: A perspective from psychometrics. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)* (pp. 11571-11590). (CCF-A) <https://doi.org/10.18653/v1/2025.acl-long.567>
- [4] **Lyu, D.^{*}**. (2024). Brief discussion on the former Asian Students Sanatorium. *Study and Preservation of Chinese Modern Architecture (volume 12)*. (In Chinese).
- [5] **Lyu, D.**, Zhu, X. et al. (2024). The 27th Contemporary Chinese Architecture Creation Forum - "Growth" Sub Forum: Student representative's reflection on "Growth". *World Architecture Review*. (In Chinese).
- [6] **Lyu, D.^{*}**. (2023). Introduction to the modern architecture of Zhehai New Customs on the North Bank of the Old Bund, Ningbo. *Journal of Architectural History*. (In Chinese). DOI: 10.12329/20969368.2023.04018

Working Papers † Co-first Author; * Corresponding Author

- [1] Gao, X., **Lyu, D.**, Han, Y., Yuan, X., Ni, J., & Zhuang, W.* (2026). From room to city: A systematic review of multi-source sensing fusion for dynamic and human-centric spatial evaluation. *Sustainable Cities and Societies*. In revision.

- [2] **Lyu, D.[†]**, Li, C.[†], Li, J., Xu, W., Huo, Y.^{*}, Li, T.^{*} (2026). Urban cardiac emergency survival inequities from seen infrastructure and unseen operations. *Nature Cities*. Under review.
- [3] **Lyu, D.[†]**, Xu, W.[†], Wang, W., Gao, C., Zhuang, W.^{*}, Li, Y.^{*} (2026). Is beauty in the eye of the beholder? Aesthetic perception of large language models.
- [4] **Lyu, D.**, Xu, W., Li, J., Chen, B.^{*}, Li, T.^{*} (2026-). Impact of extreme rainfall events on cardiovascular emergency care and patient outcomes in China.

Presentations

- [1] Oral presentation on *Outstanding Graduation Thesis Showcase, Tsinghua University*. 2026.
- [2] Poster presentation on *ACL Main Conference (The 63rd Annual Meeting of the Association for Computational Linguistics)*. 2025.
- [3] Oral presentation on *the 27th Contemporary Chinese Architecture Creation Forum*. 2024.

AWARDS AND HONORS

- **HKU Presidential PhD Scholarship (HKU-PS)** 2026
- **Distinguished Graduate of Tsinghua University** (Highest honor, top 1%) 2026
- **Distinguished Master's Thesis of Tsinghua University** (Highest honor, top 5%) 2026
- **Distinguished Undergraduate of Tsinghua University** (Highest honor, top 1%) 2025
- **Beijing SWIFT First Prize Scholarship** (Awarded twice. Beijing Central Axis Protection Foundation) 2023, 2024
- **Guan Zhaoye Scholarship Nomination Award** (Highest award for architectural design at Tsinghua) 2024
- **National Scholarship** (Highest award for undergraduates in China, top 1%) 2023
- **Comprehensive Excellence Scholarship** (Awarded every year as an undergraduate) 2020 - 2023
- **Outstanding Social Practice Scholarship** (*Tsinghua University*) 2023
- Student Social Practice Silver Award (*Tsinghua University*) 2022
- Outstanding Social Work Scholarship (*Tsinghua University*) 2022
- Outstanding Student Leader (*Tsinghua University*) 2022
- "Rubens" Fine Arts Scholarship (*Tsinghua University*) 2021
- China Habitat Design Annual Award, Architectural Design (*Honorable Award*) 2023
- Team 20 Architecture & Urban Planning Graduation Projects Competition (*Selected Work*) 2024

PROFESSIONAL EXPERIENCE

- Graduate Student Researcher**, Future Urbanity & Sustainable Environment (FUSE) Lab Sept. 2026 - present
The University of Hong Kong
- Focuses on public health issues in urban built environments. Using quantitative methods such as big data analytics, GIS, and remote sensing, I conduct interdisciplinary research at the intersection of landscape, environment, humanity, and sustainability.
 - *Supervisor*: Dr. Bin Chen (FUSE Lab PI)
- Collaborating Researcher**, National Institute of Environmental Health June 2025 - present
Chinese Center for Disease Control and Prevention (China CDC)
- Led a national-scale study of inequities in China's urban cardiac emergency care networks, integrating 1.82 million STEMI records from 4,259 chest pain centres across 350 cities to evaluate pre-hospital accessibility, regional receiving capacity, in-hospital workflows, PCI delivery, and survival across the full emergency-care pathway.
 - Currently leading a national study investigating how extreme rainfall affects the operation and resilience of cardiovascular emergency care networks and patient outcomes in Chinese cities.
 - One paper under review at *Nature Cities*, and one manuscript in preparation.
 - *Supervisors*: Dr. Jianwei Wang (CAE Academician, Director General and President, China CDC) & Dr. Tiantian Li (China CDC)
- Research Assistant**, FIB-Lab, Dept. of Electronic Engineering Sept. 2024 - present
Tsinghua University
- Leading a project on benchmarking Visual Language Models' aesthetic perception for built environment tasks.
 - Co-led a project on optimizing Large Language Models' spatial ability to understand urban space.
 - Published a research paper on *ACL Main 2025 (AI/NLP top conference, CCF-A)* as co-first author.
 - *Supervisors*: Prof. Yong Li & Prof. Chen Gao (FIB-Lab (Future Intelligence LaB), Tsinghua University)

Teaching Assistant, School of Architecture

Tsinghua University

- Science & Innovation Assistant Advisor, Class of 2023 Fall 2023 - Spring 2024
- An Introduction to Architectural Programming (lecture course) Spring 2025

Student Researcher, School of Architecture

Feb. 2023 - Jan. 2024

Tsinghua University

- Led a research project on the history of sanatorium architecture originated from USSR, its styles, typologies and influence on Chinese modern sanatorium buildings.
- Led an in-depth study of the lesser-known Zhehai New Customs architecture, which stands as a typical example of Chinese modern customs architecture.
- Published two research articles on *Study and Preservation of Chinese Modern Architecture (volume 12)* and *Journal of Architectural History*, both as first author.
- *Supervisor*: Prof. Yishi Liu (School of Architecture, Tsinghua University)

Intern Architect

Jun. 2024 - Aug. 2024

Aedas Beijing

- Carried out conceptual designs, including the Hangzhou Qiantang Business Centre and the planning and design of Xiong'an University Town (In construction).

Intern Architect

May 2023 - Jul. 2023

China Architecture Design & Research Group (CADG)

- Carried out the conceptual design for the Chongqing Fengdu Museum, which is rich in regional culture, and its adjacent commercial street.

Member of the Executive Committee & Architect

Feb. 2023 - May 2023

Aranya Theater Festival

- Conducted installation design and venue planning, which were covered by national and local media (Constructed).

PROFESSIONAL SERVICES

Workshops

- Alumni Mentor Program (*Outstanding Student*, organized by School of Architecture, Tsinghua University)
- Master Craftsman Program (*Outstanding Student*, organized by School of Architecture, Tsinghua University)
- Latin America Overseas Research Team to Chile, *Team Leader*
- Overseas Research Team on Coordinated Development and the Ideal Human Habitat to Japan, *Team Member*

Voluntary & Social Service

- The Architecture Society of China (ASC), *Student Member* 2022 - present
- Beijing Haidian Volunteer Service Federation, *Star Volunteer (more than 120 hours of voluntary service)* 2024
- Tsinghua University Zijing Volunteer Service Corps, *Four-Star Zijing Volunteer* 2024
- Academic Department, Student Union, Tsinghua University, *Minister* 2021 - 2023
- T+Z Technology Review, Graduates Union of Tsinghua University, *Deputy Chief* 2024 - 2025
- Spark Program, Science and Technology Innovation Center, Tsinghua University, *Deputy Minister* 2024
- Publicity Department, Global Competence Center, Tsinghua University, *Deputy Minister* 2023-2024
- Organization Department, Students Committee of Tsinghua University, *Deputy Minister* 2023-2024
- Practice Department, Graduate Students Committee, School of Architecture, Tsinghua, *Member* 2024-2025
- Class Committee, Class of 2020, School of Architecture, Tsinghua, *Class Leader/Committee Member* 2020-2024
- Rural Revitalization Team to Baodi, China, *Team Leader* 2022

SKILLS

- **Data Analysis & Machine Learning**: Python; QGIS; Matlab; SPSS; R; Origin; CNN; XGBoost; MLLM
- **Urban & Environmental Design**: Rhino+Grasshopper; SketchUp; Blender; Unreal Engine; CAD; Enscape; D5
- **Psychophysiology & Behaviour**: Physiolab; Virtual Reality (VIVE headset, Steam VR)
- **Graphics & Video**: Adobe Creative Suite (Photoshop, Illustrator, InDesign, Premiere); Adobe Office Suite
- **Language**: English (Bilingual); Chinese (Native)