

Lindsay Hu 胡力臻

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Education

Massachusetts Institute of Technology, Masters of Architecture (MArch)

3.5 year accredited professional degree culminating in a thesis. Coursework includes courses in Architectural Design, Building Technology, Computation, History, Theory, and Criticism, and Art, Science, and Technology.

Graduation in Jan 2027
Cambridge, MA, United States

Duke University, Bachelor of Science in Civil Engineering; Certificate in Architectural Engineering

GPA: 3.903; Dean's List with Distinction in Fall 2021 and Spring 2022.

Graduation in May 2023
Durham, NC, United States

Technical Experience

Building Technology Research Assistant, MIT Architecture

Reducing Campus Energy Use through Occupant-Centric HVAC Controls (MIT Climate and Sustainability Consortium)

- Conducted a pilot of a new HVAC control system by working with building occupants and facilities managers.
- Evaluate equipment energy consumption by analyzing timeseries data, including building a regression model with supervised learning to predict baseline energy use.
- Synthesized research data through visualizations and communicated findings to occupants and research team.

Paper accepted by the Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings (IAQVEC) 2026.

Jun 2025 – Aug 2025
Cambridge, MA

Urban policy research fellow, MIT Hong Kong Innovation Node

Eco-cultural Tourism: Potential for Sustainable Rural Development in the New Territories

- Conducted literature review and field visits to profile policy implementation.
- Used ArcGIS Pro to understand the spatial relationship between country parks and villages in the New Territories.
- Produced a research proposal for the City University of Hong Kong and the Environment and Ecology Bureau.

Jun 2024 – Aug 2024
Hong Kong

Environmental Engineering Project, Senior Capstone for BSEng in Civil Engineering

- Collaborated with a team of 3 to develop an environmental engineering solution to a proposed building.

Drafted grading plan based on sediment and stormwater control considerations.

Calculated stormwater flow rates for 1-, 10-, and 100-year storms and designed pipes and retention structures.

Jan 2023 – Mar 2023

Architecture Intern, Margulies Hoelzli Architecture

Last-mile facility in New York City

- Ideated possible schemes for adaptive reuse of the existing building, maximizing operational efficiency.
- Conducted drafting work for the finalized scheme in Revit and AutoCAD.
- Preparing presentation sets for clients that communicate the firm's design vision and professional values.

May 2022 – Aug 2022
New York, NY

Campus Initiatives

Instructor, Thermal Tectonics: Modular facade retrofits for Tainan's shophouses

Ongoing Collaboration with National Cheng Kung University (NCKU)

Jul 2025 – Present

- Taught a 2-week design workshop to 32 university students as a team of 3, addressing urban transformation through lightweight facade retrofit on historical shophouses.
- Designed a daylight and thermal comfort analysis exercise using Ladybug Tools to convey the principles of building performance simulation to students.
- Compiled student work into an exhibition to be displayed at NCKU, Harvard GSD, and Dadong Arts Center for the Taiwan Architecture Biennale.

Teaching Assistant, Introduction to Structural Design with John Ochsendorf

- Conducting concept review sessions and problem set tutorials for the undergraduate section of the course.
- Assisting with design of problem sets and assisting students in developing a structural design project.

Jan 2026 – Present

Shop monitor, MIT Architecture Shops

Received training on use of shop machinery and advises students on physical model making and safety procedures.

Aug 2024 – present

Founding and Executive member, Duke Initiative for Urban Studies

- Founded and expanded the urban studies community at Duke University from a group of 4 to a cross-campus initiative involving 7 faculty members and 7 students.
- Prepared and taught the first urban studies course at the university, working with 40 students across 2 semesters.
- Doubled the number of urban studies courses offered at Duke from 12 to 24.

Sep 2020 – Apr 2023

Software

Rhino — Grasshopper, ClimateStudio, VRay, **Adobe Creative Suite** — Photoshop, InDesign, Premiere Pro, **Revit**, **Data processing & visualization** — R, Python, Microsoft Excel, **Building performance analysis** — OpenStudio, Ladybug Tools, HTflux