

# 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)*

- 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.

Jul 2025 – Present

### 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, V-Ray, **Adobe Creative Suite** — Photoshop, InDesign, Premiere Pro, **Revit**, **Data processing & visualization** — R, Python, Microsoft Excel, **Building performance analysis** — OpenStudio, Ladybug Tools, HTflux