

ZICHEN LIANG

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EDUCATION

Beijing Jiaotong University

M.Arch., Architecture, 09/2020-12/2023

Dissertation: "A Study on Wind Environment of Effect Factors and Renewal Optimization of Traditional Residential Buildings in Dongsu Area of Beijing."

Beijing University Of Civil Engineering And Architecture

B.Eng., Electricity Engineering, Building Electricity and Intelligence, 09/2016-06/2020

RESEARCH EXPERIENCE

Beijing Courtyards Natural Ventilation Research Project, Beijing Jiaotong University, 05/2021-12/2023

- Organized a 4-person team to conduct field research in **2 times**.
- Assessed indoor air flow and pedestrian wind environment by **Fluid dynamics**.
- Analyzed and summarized the comfort of interior spaces.
- Conducted statistical analysis on study parameters using Excel and SPSS.

Associate Professor Zhongzhong Zeng's group, Beijing Jiaotong University, 09/2020-12/2023

- Collaborated with Associate Professor Bo Zhang, Oklahoma State University, in 4 academic seminars.
- Reviewed **2 journal** papers and **3 master's theses** as an assistant.
- Analyzed natural ventilation of an old building reconstruction project.
- Reviewed of traditional architecture and CFD techniques into a literature review.
- Assessed the pedestrian wind environment in urban areas.
- Trained the Fluent software application of a team of 5 people.

PROFESSIONAL EXPERIENCE

Technology and Electrical Department, China Architecture Design & Research Group, Beijing, Electrical engineer, 08/2020-04/2024

- Designed building lighting and control system(30000m² of office buildings, 10000m² of public buildings, 20000m² of underground space).
- Studied healthy lighting design.
- Consulted in the whole construction process.
- Participated in the electrical design and on-site report of a historic building conservation and renewal project.

PEER-REVIEWED PUBLICATIONS

Zhongzhong Zeng and **Zichen Liang**, 2023. The Effect of the Front Porch and Loft on Natural Ventilation of the Main House in Beijing Courtyard. *UIA 2023 CPH World Congress*, published.

Zhongzhong Zeng, **Zichen Liang** and Zhang bo, 2023. Natural Ventilation in Beijing Courtyard Primary Room: A Comparison of Isolated and Non-Isolated Buildings. *EDRA54 Mexico City*, published.

Zhongzhong Zeng and **Zichen Liang**, 2021. Analysis of the Habitat Environment of quadrangle from the Perspective of Wind Environment--Example of No. 58, Dongsi 6, Beijing. *CEB-ASC2022*, published.

CONFERENCE PRESENTATIONS

“The Effect of the Front Porch and Loft on Natural Ventilation of the Main House in Beijing Courtyard.” oral presentations in English at the UIA 2023 CPH World Congress, on July 3, 2023, Copenhagen.

“Natural Ventilation in Beijing Courtyard Primary Room: A Comparison of Isolated and Non-Isolated Buildings.” oral presentations in English at the EDRA54, on June 22, 2023, Mexico City

ADDITIONAL ITEMS

Skills

CET-4

ANSYS R21, **Fluent, Workbench, Meshing**

Excel, SPSS, Chart and data analysis module

PowerPoint, Adobe illustrator, Adobe Photoshop

Awards

Second Prize Scholarship for Autumn Semester 2020, 10/2019

REFERENCES

Zhongzhong Zeng

Associate Professor, Deputy Head of the

Architecture Department

Beijing Jiaotong University

Shangyuan Village 3, Beijing

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Bo Zhang

Associate Professor of

Landscape Architecture

Oklahoma State University, Stillwater,

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