






CURRICULUM VITAE

Marzia Chowdhury

PhD Candidate
University of Kansas

 [Marzia Chowdhury](#)
 Marzia Chowdhury
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 Wilmington, DE

EDUCATION

Ph.D. Candidate	Design of Emergency Department (ED): Responding to Pandemic Related Surge Events University of Kansas, Kansas, United States	2019-Present
MA	Design of Emergency Department (ED): Responding to Pandemic Related Surge Events University of Kansas, Kansas, United States	2019-2022
B. Arch.	Bangladesh University of Engineering & Technology, Dhaka, Bangladesh	2017

CERTIFICATION AND TRAINING

Protection of Human Subjects – Social and Behavioral Research Collaborative Institutional Training Initiative Program	2021-2024
Health Information Privacy and Security (HIPS) - Health Privacy (HIPAA) for Researchers Collaborative Institutional Training Initiative Program	2023
GCP: Social and Behavioral Research Best Practices for Clinical Research Collaborative Institutional Training Initiative Program	2023

PUBLICATION

BOOK CHAPTER

Cai, Hui, and **Marzia Chowdhury**. "Emergency Department Design in Response to Pandemics: A Systematic Literature Review." *Architectural Factors for Infection and Disease Control*: 126-165. 2022

CONFERENCE PRESENTATION

Chowdhury, M., Cai, H., Zilm, F., Imhoff, B., (2022), Evaluation of Cohort Isolation Strategy in Emergency Department in Response to COVID-19 Pandemic. *The Environmental Design Research Association, EDRA-53*. 2022

POSTER PRESENTATION

Chowdhury, M., & Cai, H., (2022), Emergency Department Design in Response to Pandemics: A Systematic Literature Review. *The Environmental Design Research Association, EDRA-53*. 2022

Graduate Student Poster presentation, 2023
School of Architecture & Design,
University of Kansas

ORAL PRESENTATION

2023 Design of Emergency Department (ED): Responding to Pandemic-Related Surge Events (A case study from built-in surge features) 2023
Public Health Symposium
KU Center for East Asia Studies

FELLOWSHIP AND RECOGNITION

2022-2023 AIA Arthur N. Tuttle, Jr. Graduate Fellowship in Health Facility Planning and Design 2022

Issuer: The American Institute of Architects' Academy of Architecture for Health

Project: Emergency Department (ED) Design for pandemic conditions: lessons learned from the covid-19 pandemic (extension)

2022 Joseph G. Sprague New Investigator Award --

Issuer: The Center for Health Design

Project: Emergency Department (ED) Design for pandemic conditions: lessons learned from the covid-19 pandemic

Foundation for Health Environments Research (FHER)

Issuer: AIA-AAH

Principal Investigator: Hui Cai

Project: Emergency Department (ED) Design for Pandemic Conditions: Lessons Learned from The Covid-19 Pandemic 2021

Nana Kirk Travel Scholarship, 2020, EDRA Board, EDRA-51

Graduate Scholarly Presentation Travel Fund, 2022, University of Kansas, Graduate Studies, for presenting in EDRA-53.

Scholarly Travel Fund, 2022, School of Architecture & Design, University of Kansas, Paper and symposium presentation at EDRA-53

Donald Hatch Graduate Research Assistantship

2019-2020

School of Architecture & Design,
University of Kansas

EMPLOYMENT

TEACHING ASSISTANT

ARCH 103 Introduction to Architecture 08/2023 – 12/2023

University of Kansas

ARCH 630 Theory of Architecture, (Online course) 01/2023 – 05/2023

University of Kansas

ARCH 658: Programming and Pre-Design Issues, (Hybrid mode) 08/2022 – 12/2022

University of Kansas

ARCH 630 Theory of Architecture, (online course) 01/2022 – 04/2022

University of Kansas

ARCH 658: Programming and Pre-Design Issues, (online course) 08/2021 – 12/2021

University of Kansas

ARCH 658: Programming and Pre-Design Issues, 08/2020 – 12/2020

University of Kansas

RESEARCH ASSISTANT

Under Hui Cai, Professor, Chair, Department of Architecture, University of 01/2023 – 12/2023

Kansas

The Health and Wellness, the Architecture Department, University of Kansas	01/2021 – 02/2021
Under Joe Colistra, chair of the Architecture Department, University of Kansas	01/2021 – 05/2021
Under Mahbub Rashid, the Interim Dean and the Associate Dean for Research and Graduate Studies of the school, University of Kansas	08/2019 – 04/2020

GRADUATE ASSISTANT

Under Joe Colistra, chair of the Architecture Department, University of Kansas	01/2021 – 05/2021
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TEACHING EXPERIENCE

ARCH 103 Introduction to Architecture, University of Kansas	08/2023 – 12/2023
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- Grading student submission of 167 students

ARCH 630 Theory of Architecture, University of Kansas	01/2023 – 05/2023
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- Grading student submission
- Participating and conducting in class presentation

ARCH 658: Programming and Pre-Design Issues, University of Kansas	08/2022 – 12/2022
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- Grading student submission
- Participating and conducting in-class presentation
- Revising student programming documentation

ARCH 630 Theory of Architecture, University of Kansas	01/2022 – 04/2022
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- Grading student submission
- Participating and conducting in class presentation

ARCH 658: Programming and Pre-Design Issues, University of Kansas	08/2021 – 12/2021
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- Grading student submission
- Participating and conducting in class presentation
- Revising student programming documentation

ARCH 658: Programming and Pre-Design Issues, University of Kansas	08/2020 – 12/2020
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- Grading student submission
- Participating and conducting in-class presentation

- Revising student programming documentation
- Assisting in developing class quizzes, course materials

RESEARCH AND DESIGN EXPERIENCE

RESEARCH EXPERIENCE

Under Hui Cai, Professor, Chair, Department of Architecture, on a research project **08-2021-05-2023**
 “Design of Emergency Department (ED):

Responding to Pandemic Related Surge Events”

Grant and Fellowship Proposal Writing

- Involved in seeking out grants and fellowship opportunities and received 1 grant and 2 fellowships with 100% success rates.
- Familiarity with grant criteria, requirements and budget preparation
- Involved in crafting research proposals for 1 grant, 1 and 2 fellowship applications that outlined research project methodologies, goals, objectives, and expected outcomes.

Project management

- Determining the scope of work: breaking down into manageable tasks, developing a project schedule, defining milestones, and ensuring meeting project deadlines.
- Monitoring: Tracking project progress according to the project deadline
- Evaluation: Evaluation and monitoring of project activities to ensure alignment with grant objectives, and adherence to specific regulations or guidelines.

Project Compliance

- Allocating budget, monitoring project budget utilization, and financial reporting for 3 grantors on 2 research projects
- Worked in progress reporting. Preparing manuscripts for journals, and conferences on 2 research projects

Under Joe Colistra, the Associate Professor, Chair, Department of Architecture **01/2021 –**

- Worked on a pre-renovation research activity focusing on existing and potential conditions on and around the building site of “East Hills KU Architecture Warehouse.”
- Site and building mapping of existing building
- Preparing 3D visualization model

04/2021

KU Institute of Health and Wellness Design | Department of Architecture|

Hui Cai, Kent Spreckelmeyer, Frank Zilm, Marzia Chowdhury

01/2021-02/2021

Research Conducted for Hoefer Wysocki

- Literature Review on Acuity-Adaptable Room Design Research
- Analysis of literature focusing on the design of acuity adaptable treatment room

Under Mahbub Rashid, Professor and Interim Dean of the Department of Architecture| University of Kansas

**08/2019 –
04/2020**

- Development on building space syntax base model as a graduate research assistant
- Literature review for Book on “Health, City and Society” as a graduate research assistant
- Food environment mapping in adobe illustrator for Book on “Health, City and Society” as a graduate research assistant

DESIGN EXPERIENCE

Student participant, design of ‘Denbi Maranatha Health Centre’ in Ethiopia.
Principle Designer: Frank Zilm
Design Competition

01/2021 – 04/2021

ADMINISTRATIVE EXPERIENCE

Worked on administrative work of the Department of Architecture, University of Kansas, as a graduate assistant

01/2021 – 04/2021

Library assistant, Donald e. And Mary Boyle Hatch Architectural reading room

08/2019 – 04/2020

Co-editors of KU newsletter

07/2023-

ATTENDED WORKSHOP

Webinar: The Evolution of Design Standards

06/22/2023

The Center for Health Design

Workshop: Behavioral & Mental Health: Design to Meet Current and Rising Needs

05/25/2023

The Center for Health Design

EDRA 53 Graduate Student Workshop

06/01/2022

Workshop: Design for Behavioral & Mental Health in Much Needed Settings and Circumstances

05/19/2022

The Center for Health Design

**Webinar: Preventing Infections: How Healthcare Design and
Operations Lead the Way**
The Center for Health Design

08/19/2021