

Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences



Graduation Plan: All tracks

| Personal information | |
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| Name | Jingjing Liu |
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| Studio | | |
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| Name / Theme | Bodies & Building Berlin / Complex Project | |
| Main mentor | Henri van Bennekom | Architecture |
| Second mentor | TBC | TBC |
| Third mentor | Eline Blom | Architecture |
| Argumentation of choice of the studio | This studio's theoretical framework and design approach involve logical analysis and practical thinking through different scales. This knowledge is exactly what I want to learn, practice, and explore for the graduation studio. | |

| Graduation project | |
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| Title of the graduation project | New, and Renew – Children’s Hospital Design in Berlin |
| Goal | |
| Location | Berlin, Germany |
| The posed problem (Problem Statement) | Current pediatric developments draw great emphasis on technological and functional improvements. However, the design strategies applied to pediatric space design are rather discrete. A type of design that takes care of the holistic experience of the users (especially the children) is lacking. |
| Research Questions | How can design approaches at different scales help improve the holistic experience of pediatric service for children? |
| Design Assignment | The goal is to develop a children’s hospital design proposal that makes the building ‘the one of its kind in Berlin’. This hospital’s design should pay special attention to the holistic experience of the children as patients. The assignment will result in a design brief and a design scheme with certain degrees of detail. |
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Process

Method description

The research is carried out through literature reference, precedent analysis, and some interviews with the proposed users.

The design would employ a series of methods, such as drawing, physical model making, digital modeling, and rendering, to explore and eventually deliver the sensorial experience of the users within the designed space.

Literature and general practical preference

Literature:

- Battisto, Dina. Architecture and Health. Routledge, 2019.
- Birch, Jo, Penny Curtis, and Allison James. "Sense and Sensibilities: In Search of the Child-Friendly Hospital." Built Environment (1978-) 33, no. 4 (2007): 405–16.
- Maiocchi, Marco, and Zhabiz Shafieyoun. Emotional Design and the Healthcare Environment. Research for Development. Cham: Springer, 2022.
- Nickl-Weller, Christine, and Hans Nickl, editors. Architecture for Health: Architektur Für Gesundheit. 1st ed, Braun Publishing AG, 2021.
- Roth, Mareike, and Oliver Saiz. Designing Emotion : Methods and Strategies for Designers. INSERT-MISSING-SERVICE-NAME. Basel: Birkhäuser, 2022.
- Sunder, Wolfgang. The Patient Room: Planning, Design, Layout. Basel: Birkhäuser, 2021.

Practical reference:

- Kinderspital Zürich by Herzog & de Meuron
- Nemours Children's Hospital (Florida) by Stanley Beaman & Sears; Perkins&Will
- AZ Zeno, Knokke-Heist by AAPROG, Boeckx, B2Ai

Reflection

1. What is the relation between your graduation (project) topic, the studio topic (if applicable), your master track (A,U,BT,LA,MBE), and your master programme (MSc AUBS)?

My graduation topic focuses on the holistic experience of space users, which involves studies into the dynamic relations between bodies and buildings (the studio topic). To find solutions for the problem stated, the graduation topic is specifically oriented to the architectural design of the hospital space, which falls under the Architecture track and the MSc Arch program as well.

2. What is the relevance of your graduation work in the larger social, professional, and scientific framework?

The graduation work would be an acute response to the current burdensome situation of the general pediatric healthcare system and aims at exploring new modes of pediatric care for the next generation.

The research and design work involves knowledge about space design, emotional design, and digitalization, which entails disciplines of architecture, psychology, and data science. This means that while the whole graduation project gravitates to hospital and public building design, it will also be multifaceted and interdisciplinary.