

# Graduation Plan

Master of Science Architecture, Urbanism & Building Sciences



## Graduation Plan: All tracks

Submit your Graduation Plan to the Board of Examiners ([Examencommissie-BK@tudelft.nl](mailto:Examencommissie-BK@tudelft.nl)), Mentors and Delegate of the Board of Examiners one week before P2 at the latest.

The graduation plan consists of at least the following data/segments:

<b>Personal information</b>	
Name	Femke Slooff
Student number	4662644

<b>Studio</b>		
Name / Theme	Complex Projects, Bodies and Buildings	
Main mentor	Hrvoje Smidihen	Architecture
Second mentor	Jelmer van Zalingen	Architecture
Argumentation of choice of the studio	Designing a complex building using data as the main design tool was really interesting to me as well as the context of Berlin.	

<b>Graduation project</b>	
Title of the graduation project	<b>Designing an Olympic Venue</b>
<b>Goal</b>	
Location:	Berlin
The posed problem, research questions and design assignment in which these result.	<p>What makes a building a Berlin building and What the perspective of the human body inflicts in the design of the building?</p> <p>Which Building typology could be considered a Berlin Building?</p> <p>How does one design an Olympic Aquatic centre with a viable Legacy?</p> <p>Which natural ventilation systems could be implemented into the design of modern-day swimming pools to achieve user comfort in regards to air quality, particularly humidity, temperature and CO2 levels?</p> <p>Designing an Olympic Aquatic Centre within the context of Berlin. By focusing on global relevance, the urban context of Berlin, specific building concepts, functionalities and technology, materializations and critical details.</p>

## Process

### Method description

I'm going to collect hard and soft data about Berlin using Open Data. Studying and analyzing Case studies to collect data about the building typology and historical precedents. And create a literary overview and inventory of possible natural ventilation systems.

### Literature and general practical preference

I'm using open city sources about Berlin to collect data regarding population statistics, city developments, infrastructure and accessibility. Literary work on natural ventilation systems. Literary work on historical precedents in regard to Olympic Aquatic Centers. And open government sources to collect data about specific requirements of the Olympic Aquatic Centre.

### 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)?

The relation between this graduation project, studio topic and master track itself comes down to learning the professional ways of composing a coherent and convincing vision for a project brief. As well as developing and learning how to methodically deal with large complex projects and incorporate the relevance of data within this process and how to use and organise this data. The studio further pushes the design by exploring and recovering overlooked information about ergonomic architecture that focuses on the user experience, applied to a case study – in this case, a building which explores air quality through the use of natural ventilation within the context of an Olympic Aquatic Centre.

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

My graduation work introduces a method which is relevant to the design of future proof Olympic Facilities and can offer a method for future organizations when organizing an Olympic Games. The studio also explores overlooked information about ergonomic architecture that focuses on the user experience, in this case, a building which explores air quality through the use of natural ventilation within the context of an Olympic Aquatic Centre. This is useful for future architectural practices