



*Diploma Degree Projects by:*

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NATALIA DAUKSZEWICZ  
FELIPE FRANCO  
THERESE GRADIN  
FRANCESCA PERNIGOTTI  
SOFIE PERSSON  
MARTIN KRENSLER  
MIA MODIG  
MIRJA ROBIN  
KARIN STENSTRÖM  
GUNILLA SUNDIN  
ELIN SVENSSON  
SOPHIE THORSELIUS  
MATTIAS PEDERSEN  
ALEXANDRA ROSENGREN  
MOA RYDBERG DAHLIN  
EOGHAN McCARTHY  
MARIANA PASCHIDI  
LARS EGGE  
FREDRIK GÄRDHAMMAR  
DAVID LINDMARK  
FREDRIK EHN  
EVA DAHLBÄCK

***DIPLOMA DAYS***

KTH School of Architecture  
Jan 2017

*External jury:*

MALIN ZIMM  
OLGA TENGVALL  
THORDIS ARRHENIUS  
DANIEL NORELL  
KLAS RUIN  
KURT LAZZARINI

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*KTH School of Architecture*  
*SE-100 STOCKHOLM*

*Edited by Terese Jansson*

## ***KTH-A DIPLOMA DAYS, JANUARY 12-13***

During the Diploma Days the next generation of architects from the KTH School of Architecture will present their work to an invited panel of guests. The work on display and the presentations are open to the public – welcome!

Invited guests:

Malin Zimm

Olga Tengvall

Thordis Arrhenius

Daniel Norell

Klas Ruin

Kurt Lazzarini

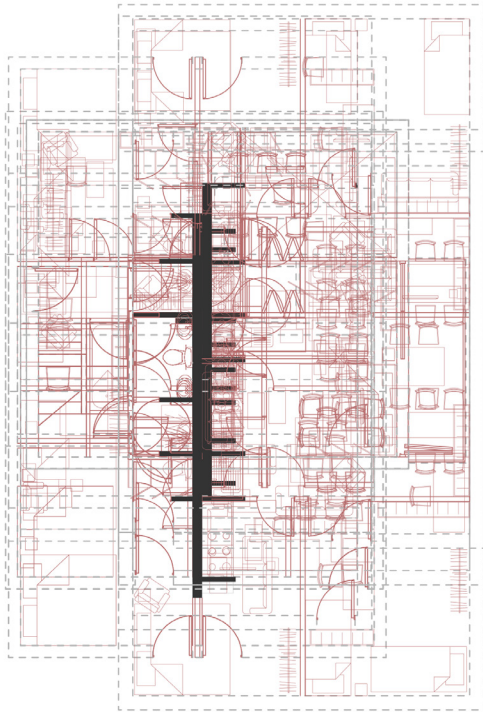


**MARIANA PASCHIDI**  
EYES BEYOND VISION  
*-SPATIAL PERCEPTION THROUGH SENSES*

Most of the spaces and buildings are designed in order to satisfy the sense of vision. However, there are people with limited or no vision who are still using the same spaces, spaces that do not address other senses than that. How visually impaired people can understand and use the surrounding environment without having a visual memory of it? The objective of the proposed project is to make people discover how spaces rich in stimulus can affect their perception of the built environment.

Studio 4, supervised by:  
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ORI MEROM

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**EOGHAN McCARTHY**  
THE ELASTIC CITY

Examining the housing situation in 3 European cities, I propose an alternate way of approaching housing. By empowering the citizens to develop their personalised homes, using a general toolbox of infrastructure and components, I envisage how a city may become more adaptable to it's modern challenges. This new Elastic City would be more sustainable architecturally and economically. As cities and economies are constantly in flux, why not our architecture?

Studio 4, supervised by:  
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ORI MEROM

## THE PRESENTATIONS

**ALEXANDER FORSLUND**

TILES OF THE CITY

**BEATRIZ BANDEIRA**

PILGRIMSCENTER I ALVASTRA

**BIAO LI**

GOTHENBURG DANCING STUDIO  
DESIGN AND UNREAL ENGINE 4  
REALIZATION

**NATALIA DAUKSZEWICZ**

KASERNOPOLIS

**FELIPE FRANCO**

WITHIN

**THERESE GRADIN**

STRETCHING FOOD

**FRANCESCA PERNIGOTTI**

LIBRARIES IN THE 21<sup>ST</sup> CENTURY

**SOFIE PERSSON**

GÅRD 20

**MARTIN KRENSLER**

DIVERSITY OF WOOD

**MIA MODIG**

THE PLANETESIMAL

**MIRJA ROBIN**

VIKBADET

**KARIN STENSTRÖM**

WOOD AS SKELETON AND SPACE

**GUNILLA SUNDIN**

EN PRIVAT SFÄR – ETT SMÅHUS I  
STADEN

**ELIN SVENSSON**

THE CITY IN LAYERS

**SOPHIE THORSELIUS**

FRAGMENTERADE VÄRLDAR

**MATTIAS PEDERSEN**

MOUNTAIN REFUGE IN THE  
MAKING

**ALEXANDRA ROSENGREN**

(OPEN VOID)

**MOA RYDBERG DAHLIN**

CHINESE WHISPERS

**EOGHAN McCARTHY**

THE ELASTIC CITY

**MARIANA PASCHIDI**

EYES BEYOND VISION

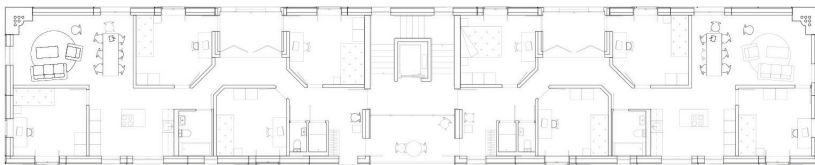
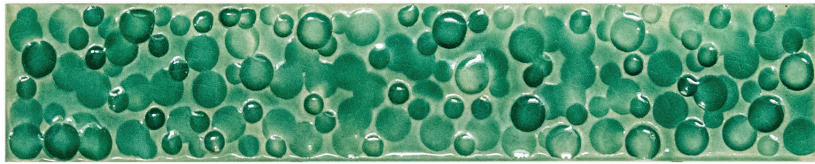
**LARS EGGE**

**FREDRIK GÄRDHAMMAR**

**DAVID LINDMARK**

**FREDRIK EHN**

**EVA DAHLBÄCK**



## ALEXANDER FORSLUND

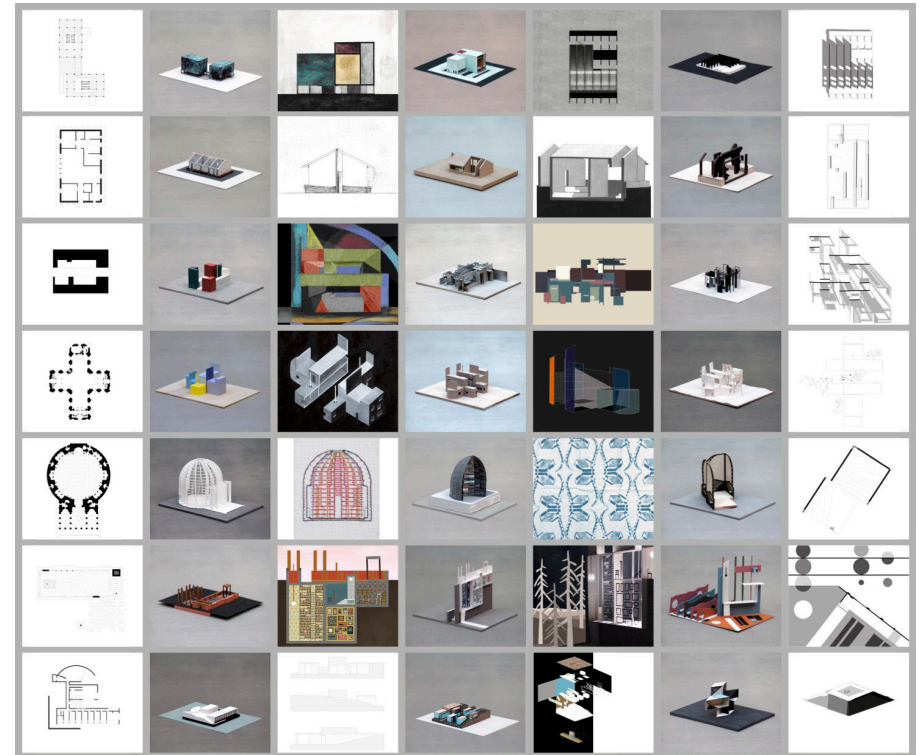
### TILES OF THE CITY

*-HOUSING THROUGH DENSIFICATION IN A CENTRAL LOCATION OF UMEÅ*

The fast growing city of Umeå needs to densify its current inner city as a strategy to cope with its current and future housing situation. Densifying comes with a responsibility to care for the existing inhabitants and structures. The project deals with careful densification of a centrally located site by creating new structures on underused space, by adding to the already built and by creating a public space in-between. Furthermore, I have investigated the building's material aspects by developing a ceramic façade for the project.

Studio 3, supervised by:  
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## MOA RYDBERG DAHLIN

### CHINESE WHISPERS

*-A CONCEPTUAL INVESTIGATION ABOUT REPRESENTATION*

Transformed through the rules of Chinese whispers, every step in these seven series become their own composition. They are paraphrases of the original, but also of each other, turning into parallel truths that could exist in this world or an imagined one.

By adding the visual expression of art currents, artists, architects, specific materials or an idea of sender and receiver different themes are set. These themes are the foundation through which they make their own narrative.

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## **ALEXANDRA ROSENGREN**

(OPEN VOID)

-AN ARCHITECTURAL EXPLORATION OF URBAN COMMONS

*“.../Modern architecture has turned into a technocratic, utopist, drawing-board activity, far removed from the problems of the real world.../Restoring the true sense, is a political act.../PEOPLE should do architecture.”*

LINA BO BARDI, 1979

Today, half of humanity lives in cities. Almost 1/4 of these, in informal settlements, outside of the planned urban context. In the discourse of this rapid urbanization, the project explores the right to the city. Studying architecture beyond the object, as a city-building process and an act in our shared urbanity.

Studio 8, supervised by:  
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## **BEATRIZ BANDEIRA**

PILGRIMSCENTER I ALVA STRA

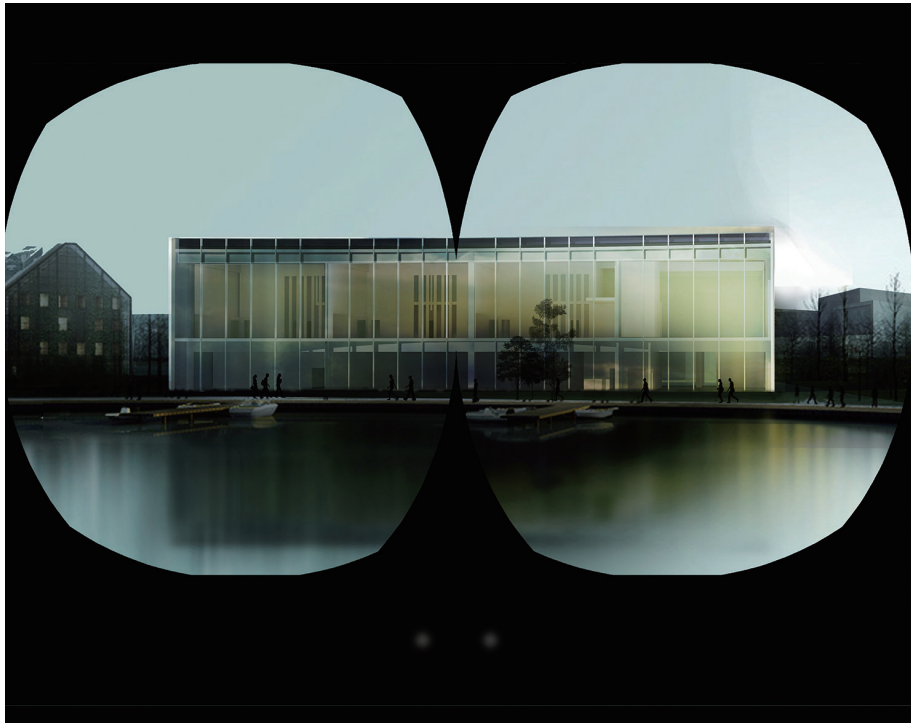
-ETT ALTERNATIVT FÖRHÅLLNINGSSÄTT TILL RUINER

What we today consider as ruins, are in many cases reconstructions. The aim of this project is to tell stories from the past, using a different way of relating to authenticity.

Taking the location and the Romanesque architecture as a starting point, I have reinstated the functions of the former abbey, from a pilgrim's needs. With an interpretive and reconstructive approach, I have transformed the empty spaces of the ruin into mass, and created architecture from an imaginary past.

Studio 2, supervised by:  
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**BIAO LI**  
GOTHENBURG DANCING STUDIO DESIGN AND UNREAL  
ENGINE 4 REALIZATION

Gothenburg city is now planning a new area of centre. Based on its river city development principle. They need a new skyline and a new connection with original centre. Opposite to the landmark Gothenburg hall I plan to build a dancing studio for local outstanding dancing market to help people know more about dancing and improve the dancing industry.

After I finished the basic designing. I tried to migrate my project into Unreal Engine 4 and VR as next step. What I do is I modelling in ArchiCAD, optimised in Cinema 4D and import the whole building by separate items such as walls, furnitures, doors ect. And the I subdivided the light map and build the lightning system. At last I used the Blueprint script system to give the whole building function.

With the help of UE4 and VR, exploring the unreal world become much more deeper. You can standing and walking around in unbuilt project. The process can help architects check their space, refining their detail and help them to show their project to clients especially for people without building experience. Previewing the building also help architects making better decision.

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**MATTIAS PEDERSEN**  
MOUNTAIN REFUGE IN THE MAKING

They are more than a thousand, maybe more than twice as many, the mountain huts and bivouacs in the Alps: There seems to be no reliable estimates, no one has ever listed them and therefore there can not be a clear idea of how many they actually are. Something is certain; the need to sojourn in the Alps and spend the night at high altitude will not decrease, on the contrary. How will this need be met in the future? The subject is vast and complex, but nonetheless a very urgent discussion hence the future of the mountain huts is in motion since many years.

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**SOPHIE THORSELIUS**  
FRAGMENTERADE VÄRLDAR  
*-FLYKTINGBOSTÄDER I SVERIGE*

In the wake of the humanitarian crisis in the Middle East, many people fled their countries seeking refuge in Europe. During 2015, the number of refugees seeking shelter became alarmingly high in relation to available housing stock. What does this mean in terms of integration and living arrangements for the refugees and Sweden as a whole? This project explores how architecture can be utilised as a tool to attempt to find solutions to socio-political issues such as integration.

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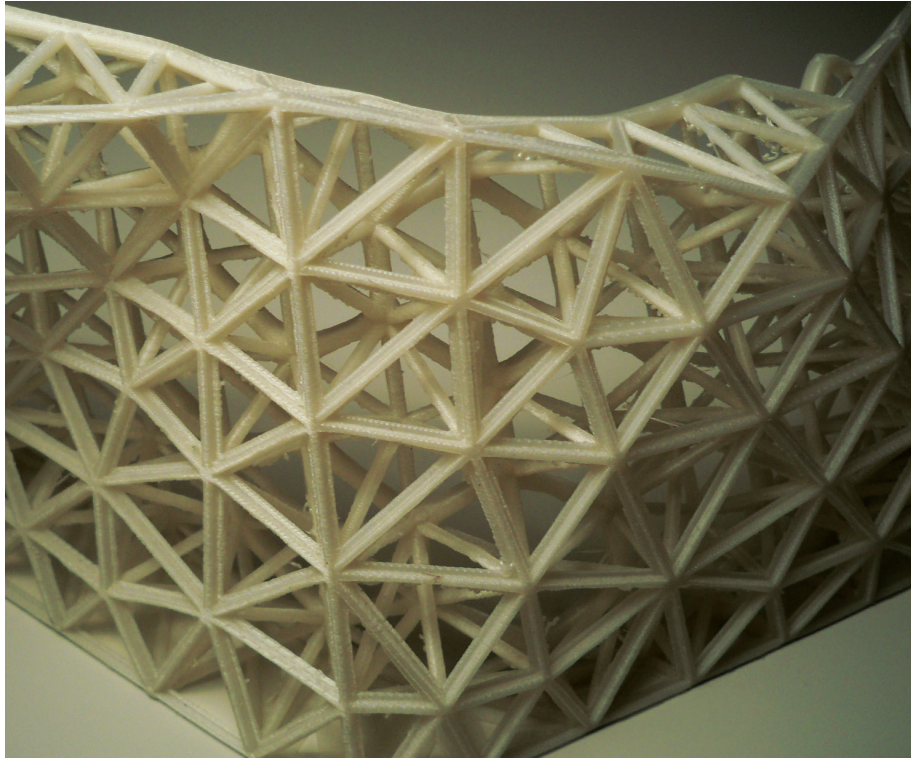


**NATALIA DAUKSZEWICZ**  
KASERNOPOLIS

The former military area, dated back to the late 19th century, became with time neglected and left itself for the accidental development as the city started to grow and claim its space within the site. Buildings that used to be stables, were adapted with no consideration to their architectural style and technical state. Regional economic and sociocultural development are the goals of the design process in this historic area with the focus on refurbishment, addition of new structures and zoning plans.

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## **FELIPE FRANCO**

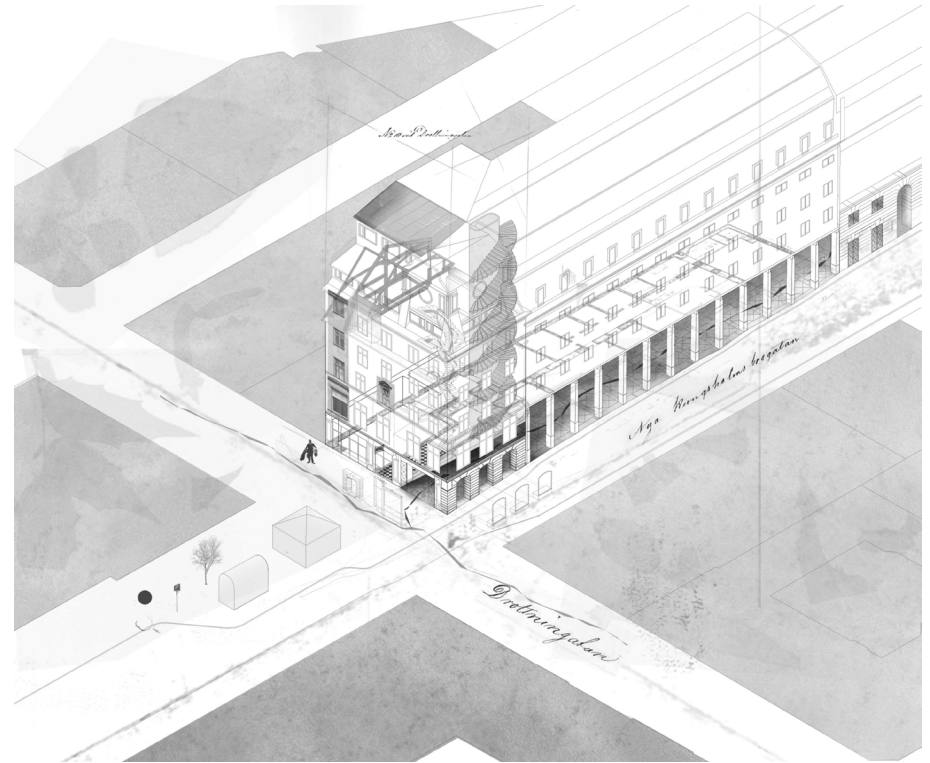
### **WITHIN**

*-EXPLORING ADDITIVE MANUFACTURING IN ARCHITECTURE*

The development of new digital fabrication processes, such as 3D Printing and other AM techniques, will lead to unprecedented transformations in architecture. "WITHIN" is a Thesis work whose purpose is to examine the possibilities of AM of a cellulose-based material, exploring its properties and researching feasible fabrication methods to use it in construction. The chosen program is a temporary middle scale intervention; a floating recreational facility located in the island of Kungsholmen.

Studio 9, supervised by:  
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## **ELIN SVENSSON**

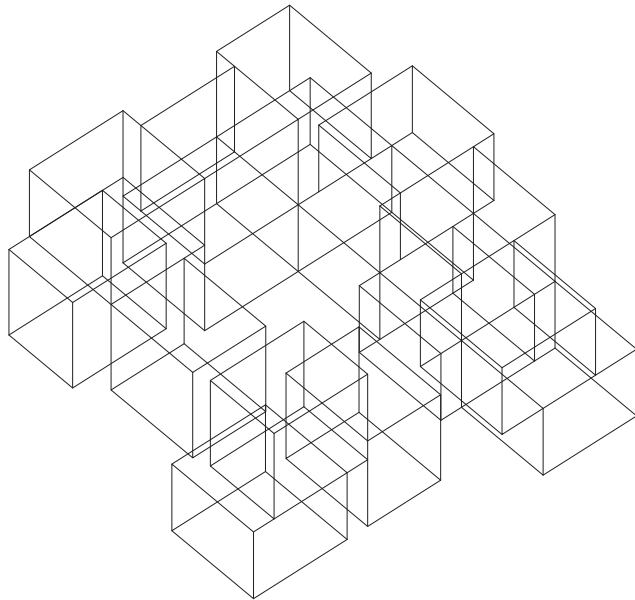
### **THE CITY IN LAYERS**

*-TEMPORAL FRAGMENTS OF STOCKHOLM*

On the basis of that what surrounds us, the physical environment is not regarded as complete but in constant transformation, where everything is overlaid and new layers are added to the existing, architectural objects, layers and places in Stockholm are studied. The premise is that these architectonic fragments, onto which negotiations over time has been imprinted has a value added. They enrich, adds character and a continuity that can be perceived and appreciated. A city is through these an archive (of the memory of itself).

Studio 7, supervised by:  
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**GUNILLA SUNDIN**  
EN PRIVAT SFÄR – ETT SMÅHUS I STADEN

My project is a proposal for a single family home on a plot in a dense and varied urban landscape.

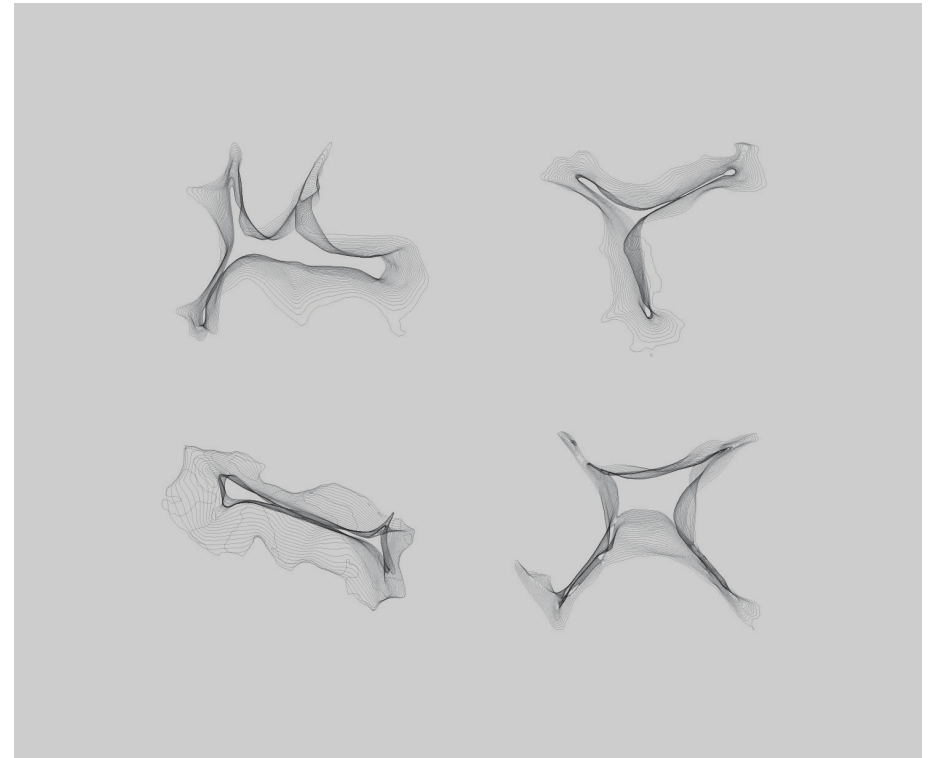
Is it possible to create private space without sacrificing qualities such as light, openness and hospitality in such a context?

How do you find a balance between opposites as open and closed?

A building can be perceived as both introvert and extrovert?

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**THERESE GRADIN**  
STRETCHING FOOD

Each year every person in Sweden throws away more than 100 kg of food. Could food waste somehow inform architecture? Two of the most binned products, milk and potatoes are sources of bioplastic. The properties of these polymeric materials were studied through stretching and different morphologies were identified. The findings have been evaluated by speculating on architectural aspects of openings, spatialities and light as well as limitations and possibilities regarding construction.

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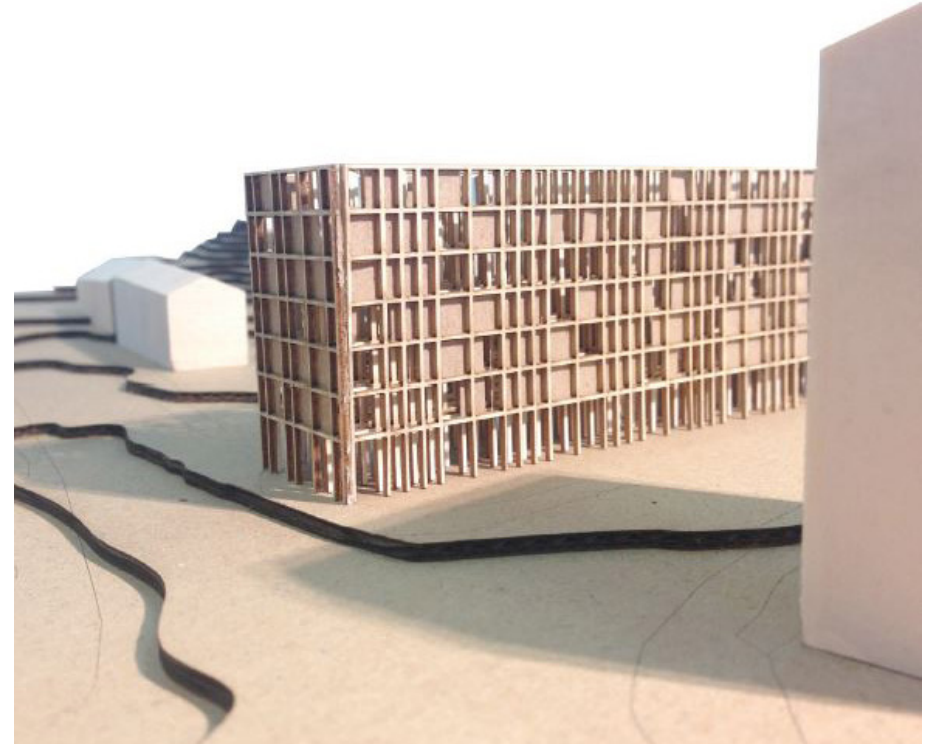
**FRANCESCA PERNIGOTTI**  
LIBRARIES IN THE 21<sup>ST</sup> CENTURY  
*-A PUBLIC LIBRARY FOR HJORTHAGEN*

The project is a design proposal for a library where non-commercial public spaces are devoted to knowledge and sharing, stressing the right to a democratic environment and universal access to knowledge. Designing the building as a landmark can accomplish the architectural task of drawing attention and recognition to the functions it performs.

A new concept for the library as architectural typology has been developed, based on the process of learning, making and sharing, to improve the experience of employing a library's services.

Studio 9, supervised by:  
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**KARIN STENSTRÖM**  
WOOD AS SKELETON AND SPACE

In my thesis project /Wood as Skeleton and Space/, I have worked with creating a system for wooden apartment buildings with a focus on the wooden skeleton, both being the structure of the building, and an exposed element for visual and tactile relation within your apartment. Provoking memories of the texture and sound of an old wooden floor, the massive, yet so detailed wooden door at your summerhouse, the warmth and beauty of a living material, a breathing material.

Studio 8, supervised by:  
SARA GRAHN  
RUMI KUBOKAWA



**MIRJA ROBIN**

VIKBADET

*-NEW PUBLIC POOL IN SALTSJÖBADEN*

Most of the Swedish indoor pools were built during the 1950's-70's and are now outdated or in need of extensive renovations, as much as 80% of the buildings is considered to be out of date within a few years. This is the case for the public pool in Saltsjöbaden, where Nacka municipality calls for the need of a new one. The proposal for Vikbadet is a modest building which aims to resolve the programming for a contemporary indoor pool house in a simple way without losing qualities in experience.

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**SOFIE PERSSON**

GÅRD 20

In the rural area of the most southern part of Sweden you'll find the traditional farm of Skåne, a farm with a large stated cultural value. The farm stands today without function and is becoming unfit in terms of agriculture and often expensive to maintain. The farm is slowly disappearing along with the historical value.

The aim of my thesis project has been to design a practical and contemporary suggestion on how the cultural value of the Skåne farm can be preserved in a new building.

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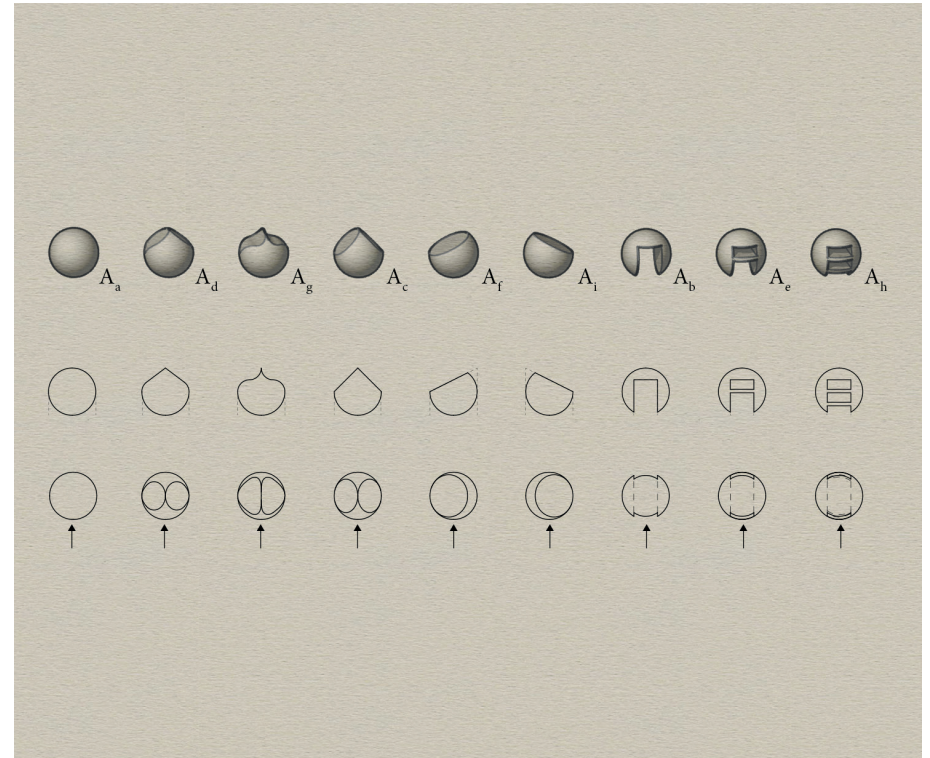


**MARTIN KRENSLER**  
DIVERSITY OF WOOD

This project explores the possibilities of crafted wooden architecture. It looks into the details of craft and tradition and tries to find new ways of using the material. Wood can be treated in a tectonic and a stereotomic way to achieve various spacial experiences, closely connected to the logics of the material. The final proposal include three wooden pavilions with different character, conforming the various needs of a dwelling programme.

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**MIA MODIG**  
THE PLANETESIMAL  
*-TALES OF STARGAZING IN THE ARCHIPELAGO*

It was not at one point in time, it was gradual, the loss of the night sky. Slowly the streetlights and neon signs emptied out the darkness. We can now live our whole lives without ever seeing the milky way.

With text as a driving factor behind the design */the Planetesimal/* is an exploration of the entwining of writing and architecture, text and form. Through a collection of stories a place for reconnecting with the stars is created in the outer archipelago of Stockholm.

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