

## **Vorlesungsverzeichnis**

M.Sc. Europäische Urbanistik PO 2013 / PO 2014

Sommer 2018

Stand 16.10.2018

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**M.Sc. Europäische Urbanistik PO 2013 / PO 2014****Studienprojekt****117122403 Computational Urban Analysis****E. Fuchkina, S. Schneider**

Veranst. SWS: 2

Seminar

Di, wöch., 09:15 - 10:45, Belvederer Allee 1a - Allg. Medienpool 003, 10.04.2018 - 03.07.2018

**Beschreibung**

Locating and dimensioning spatial objects and with it the creation of spaces is at the heart of architectural and urban design. Thereby it is necessary to precast the effects that design decisions have on the behaviour of the future users as well as to estimate the sustainability and resilience of the designed object (such as a city or a building). Computational analysis methods can help to support this process due to the fact that they can reveal properties that are hardly recognizable at first intuitive sight.

In the seminar you will learn methods for the quantitative analysis of urban space (such as density, accessibility, visibility) and examine in how far these quantities relate to real life phenomena such as the distribution of functions in a city or the movement patterns of urban users. Finally we will apply the methods in small cities in Thuringia as well as in Ethiopia and reveal differences and similarities.

The seminar is open only for students that take part in the EU/ArdUrb study project "Metabolism-based Planning Strategies".

**Bemerkung**

seminar to studyproject:

118122401 Metabolism-based Planning Strategies for Rural-Urban Transformation in Ethiopia.

**Voraussetzungen**

Studiengänge: M.Sc. European Urbanism/Advanced Urbanism

**118122401 Metabolism-based Planning Strategies for Rural-Urban Transformation in Ethiopia.****A. Abdulmawla, E. Fuchkina, A. Herten, B. Nentwig, P. Schmidt, S. Schneider**

Veranst. SWS: 12

Projekt

1-Gruppe Do, wöch., 09:15 - 18:30, Belvederer Allee 5 - Seminarraum 005, Advanced Urbanism, 05.04.2018 - 05.07.2018

2-Gruppe Do, wöch., 09:15 - 18:30, Belvederer Allee 5 - Seminarraum 007, Europäische Urbanistik, 05.04.2018 - 05.07.2018

Mi, Einzel, 09:15 - 18:30, Belvederer Allee 5 - Seminarraum 005, Abschlusspräsentation, 11.07.2018 - 11.07.2018

**Beschreibung**

The transformation from a mainly agricultural society to industrialisation that is faced these days in Ethiopia is linked to substantial changes of the country's rural and urban areas. With these shifts, the processes of urbanisation and expectations towards modernisation is seen as a chance to create new and adaptive urban planning proposals that meet specific needs and conditions of the Ethiopian development context in Sub-Saharan Africa. While the World Bank is promoting rapid economic growth for Ethiopia, the country is still one of the poorest countries in the world, and the question arises in how far urban design and planning can create concepts and flexible urban models that are reactive enough to stimulate different scenarios responding for balanced development.

One of the main frameworks to create such balance for emerging cities are the United Nations Sustainable Development Goals. Different key factors like food security, energy, water and sanitation are linked to resource questions of material and land and how those can be influential on the development of prospective cities. Thus, for the development of new towns in rapidly urbanizing regions the understanding of material flows and circulation within

the urban system is crucial when it comes about any building activity that determines the urban form and what we finally experience as urban, including open and public space and healthy living conditions.

To better understand how such flows of material resources and energy are linked to building activities in rural urbanisation processes and their impact on the existing environment, in our study project, we are referring to urban metabolism as a framework for urban design and planning of small cities.

Participants will be analysing urban patterns and flows of small cities, learn about the context between urban metabolism and its spatial implications and apply tools and methods for a spatial analysis and finally implement that knowledge in spatial models and concepts to simulate possible development scenarios. The findings should also make visible the opportunities and limitations of such concepts for disciplines concerned with urban development, taking into account environmental, social and economic factors.

### engl. Beschreibung

The transformation from a mainly agricultural society to industrialisation that is faced these days in Ethiopia is linked to substantial changes of the country's rural and urban areas. With these shifts, the processes of urbanisation and expectations towards modernisation is seen as a chance to create new and adaptive urban planning proposals that meet specific needs and conditions of the Ethiopian development context in Sub-Saharan Africa. While the World Bank is promoting rapid economic growth for Ethiopia, the country is still one of the poorest countries in the world, and the question arises in how far urban design and planning can create concepts and flexible urban models that are reactive enough to stimulate different scenarios responding for balanced development.

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### Bemerkung

Compulsory seminar:

117122403 Computational Urban Analysis

## 118122402 Parametric Urban Design

**A. Abdulmawla, S. Schneider**

Veranst. SWS: 2

Seminar

Di, wöch., 13:30 - 17:00, Belvederer Allee 1a - Allg. Medienpool 003, 10.04.2018 - 03.07.2018

### Beschreibung

The potential of parametric design lies not only in facilitating the creation of complex geometries but rather in generating and validating a large number of variations of a certain design concept. Thus, it supports an essential part in the planning process: the exploration of possibilities. In order to gain most benefits of this potential, it is necessary to understand how to design parametrized shapes using simple and abstract rules, and how to stage a design idea

into a logical sequence of steps (Algorithm), as well as, how to explore the possible solutions out of the designed algorithm.

In this course you will learn these skills in different practical exercises. These exercises are based on the idea of parametrizing the urban design process, which can be described as the algorithmic sequence for planning a city (e.g. building a street network that adapts to terrain, then dividing the available building blocks to fulfill specific typologies).

The course will only support the participants of the study project of European Urbanism and Advanced Urbanism and does not require any previous knowledge of scripting or programming. In this seminar students will first gain knowledge about general parametric modelling techniques using Grasshopper and Rhino3D. Then, they will apply the knowledge gained by generating and optimizing the design of their cities in the study project. All students will participate in a series of lectures, online tutorials, in-class sessions, as well as present and animate their design tasks during our weekly consultations.

#### **Bemerkung**

Compulsory seminar to:

118122401 Metabolism-based Planning Strategies for Rural-Urban Transformation in Ethiopia.

#### **Voraussetzungen**

Studiengänge: M.Sc. European Urbanism/Advanced Urbanism

## **Pflichtmodule**

### **118122701 Bauhaus and the modernization of spatial planning in the 20th century**

**P. Sassi, M. Welch Guerra**

Veranst. SWS: 2

Vorlesung

Mo, wöch., 17:00 - 18:30, Marienstraße 13 C - Hörsaal A, 09.04.2018 - 06.07.2018

Di, Einzel, 09:15 - 16:45, Belvederer Allee 5 - Seminarraum 008, 03.07.2018 - 03.07.2018

#### **engl. Beschreibung**

Almost 100 years after the establishment of the Bauhaus, we consider the legacy of one of the biggest projects aiming to modernize the living environment for which the school founded in Weimar stands today. The series of lectures combines a discussion of this project in terms of societal and political determinants, its discourse and its changes over the 20th century, with a consideration of particular examples of its implementation at the scale of spatial planning.

In doing this, we examine cities with a closer relationship to the Bauhaus History – such as Weimar and Dessau – and also some cities where consciously induced modernization invokes other projects. Our considered geographical contexts will include some of the cities investigated within our research projects and PhD programmes. The lectures will be given both by scholars of the Bauhaus-Universität Weimar and by invited guests

#### **Bemerkung**

Termine bitte den aktuellen Aushängen entnehmen. Vielen Dank

#### **Voraussetzungen**

Zulassung zum Masterstudium - Einschreibung!

### **118122702 Aspects of the history of European urbanism in the 20th century**

**M. Welch Guerra**

Veranst. SWS: 2

**Seminar**

Mo, Einzel, 13:30 - 16:45, Belvederer Allee 5 - Seminarraum 005, 30.04.2018 - 30.04.2018

Mo, unger. Wo, 13:30 - 16:45, Belvederer Allee 5 - Seminarraum 005, 04.06.2018 - 02.07.2018

**Beschreibung**

Urbanism has shaped cities and their societies during the 20th centuries in completely different ways in different parts of Europe. The seminar will look on four thematic fields and the role urbanism was playing in this context. The seminar is instructed by four researchers currently conducting their research in the European Joint Doctorate urbanHIST funded by the European Union.

**1734246 The Spatial Impacts of the EU****N.N.**

Veranst. SWS: 2

**Seminar**

Mo, gerade Wo, 13:30 - 16:45, Belvederer Allee 5 - Seminarraum 007, 16.04.2018 - 14.05.2018

Mo, unger. Wo, 13:30 - 16:45, Belvederer Allee 5 - Seminarraum 007, 04.06.2018 - 02.07.2018

**Beschreibung**

The European Union is heavily investing in the renovation of its urban environment in a manner mirrored on no other continent (yet). This is in recognition of the importance cities hold to realize broad political goals such as the Europe 2020 Strategy of "smart, sustainable and inclusive" growth for the Union. Critical views and opposing opinions become marginalized as broad EU policies become mainstreamed and certain historical, cultural, socio-economic, environmental aspects (among others) are left out if not intentionally ignored. This makes EU funds and their use an important subject to debate, especially in sight of the current programming period, which, at least on the surface, represents a new holistic and sustainable approach. But is this really the case?

The seminar will begin with the presentation of research results and experience, including theoretical foundation for the interpretation of said programming and analytical methods. Topics such as "territorial cohesion" and the urban dimension of EU eastern expansion will be presented and help explain the impact of Cohesion Policy on the city and state level. Students will then undertake their own research on a topic of personal interest related to the priorities and goals of the EU. At the end of the seminar students shall be able to navigate through EU policy and positively interpret its effects on cities and be empowered to propose new and creative designs for its future use

**Bemerkung**

Dozent: Msc A Karl Eckert

**Voraussetzungen**

Enrollment!

**Master-Colloquium****L. Vollmer**

Kolloquium

wöch.

**Beschreibung**

The course is the platform for presentation and discussion of the Masters theses. The candidates will present the intermediate results of their work on their individual topics. Suggestions for further action will be made by fellow students and academics attending the colloquium. Admission for the Master examination is required for participation. Performance record (attestation) will be achieved by giving an oral presentation.

**engl. Beschreibung**

The course is the platform for presentation and discussion of the Masters theses. The candidates will present the intermediate results of their work on their individual topics. Suggestions for further action will be made by fellow students and academics attending the colloquium. Admission for the Master examination is required for participation. Performance record (attestation) will be achieved by giving an oral presentation.

**Bemerkung**

Time:Block course, see notice-board

Location:Belvederer Allee 5

Start: See notice-board

Registration: Not necessary, all students accepted for the Master examination have to participate

**Voraussetzungen**

Admission for the Master examination is required for participation.

**Leistungsnachweis**

Performance record (attestation) will be achieved by giving an oral presentation.

**Wahlpflichtmodule****118121201 Rethinking classics Analyse, understand and improve the big ideas of urban design****S. Mandic, N.N.**

Veranst. SWS: 2

Seminar

Mi, wöch., 09:15 - 10:45, Belvederer Allee 5 - Seminarraum 007, 11.04.2018 - 20.06.2018

Mi, Einzel, 09:15 - 10:45, Belvederer Allee 5 - Seminarraum 007, Prüfung, 27.06.2018 - 27.06.2018

**Beschreibung**

On the paper it all seemed perfect – new, creative ideas that were promising a better living conditions accessible to the many living in a city. But relatively quickly upon the construction, most of them didn't completely fulfil the promise. Some of them even were a total disaster. Where and why did it all go wrong? In this seminar, we will look at the now classic urban design projects around the world in order to understand and outline their trajectories from a brilliant idea to a not-so-successful housing projects. This will help us to understand the basic principles of these projects and implement them in the context of contemporary urban setting.

The first part of the seminar focuses on the urban design projects from the past (a theoretical and analytical part), and the second part will explore the possible future of these built projects (a creative part).

After the completion of the course, you will learn how to work analytically with references and how to implement the basic principles in to your own work. Or to paraphrase the words of Isaac Newton: if you want to see the future you need to climb on the shoulders of Giants.

**118122502 Flucht in die Moderne. Architektinnen und Architekten im Exil****I. Weizman**

Veranst. SWS: 4

Seminar

Mi, unger. Wo, 17:00 - 20:30, Geschwister-Scholl-Str.8A - Seminarraum 002, 11.04.2018 - 25.04.2018

Di, Einzel, 11:00 - 17:00, Vorlesung und Seminar in Berlin (wahlobligatorisch), 01.05.2018 - 01.05.2018

Mi, wöch., 17:00 - 20:30, Geschwister-Scholl-Str.8A - Repräsentationsraum 109, 09.05.2018 - 16.05.2018

Do, Einzel, 10:00 - 14:00, Seminar in Berlin, 17.05.2018 - 17.05.2018

Block, 09:00 - 18:00, Myra Warhaftig Symposium in Berlin (Teilnahme obligatorisch), 17.05.2018 - 18.05.2018

Sa, Einzel, 17:00 - 20:30, 16.06.2018 - 16.06.2018

**Beschreibung**

Mit dem erweiterten Zugang zu neuen Archiven, Datenbanken und digitalen Rechercheplattformen stehen Architekturhistoriker und -theoretiker vor der neuen Herausforderung, die Spuren von wandernden Objekten und Ideen nachzuverfolgen.

Dieses Seminar versteht Bauwerke als dokumentarische Quellen und analysiert die Verstrickung von architektonischem Objekt mit der komplexen geopolitischen Welt sowie der Kulturgeschichte.

Anhand einer Serie von ›Objekt-Biografien‹ von Bauwerken emigrierter Architektinnen und Architekten, die unter der nationalsozialistischen Diktatur gezwungen waren, Europa vor dem Zweiten Weltkrieg zu verlassen, sollen die losen Fäden der Geschichte recherchiert und zusammengeführt werden.

Diese Objekt-Biografien beschreiben eine Architekturgeschichte, die sich beständig mit der Transformation der gebauten Umwelt verändern und sich zugleich mit neuen Medien der Dokumentation und Repräsentation auseinandersetzen muss. Das Seminar setzt sich zentral mit dem umfangreichen Archiv der Architektin und Historikerin Myra Warhaftig (1930-2008) auseinander und verfolgt die Spuren ihrer Sammlung.

In dokumentarischen Porträts von ArchitektInnen und ihren Architekturen sollen Werdegänge und Konflikte des künstlerischen Schaffens in den Ländern des Exils beziehungsweise in ihren neuen Heimaten festgehalten und rekonstruiert werden. Wir werden uns speziell mit der Migrationsgeschichte jüdischer ArchitektInnen nach England und Palästina beschäftigen. Während für die Überlebenden in ihren neuen Heimaten ein neues Leben begann, waren die Werke dieser oft noch sehr jungen Architekten der gerade erst begonnenen Moderne ihrem Schicksal überlassen. Auch sie erfuhren ein ‚zweites Leben‘ (eine Art Nachleben). Zum Teil wurden die Gebäude zerstört; jegliche Spuren von ihnen gingen verloren. Andere wurden zum unbemerkten, ruinösen Hintergrund für neue Stadtgestaltungen, oder sie wurden bis zur Unkenntlichkeit entstellt, um die Radikalität ihrer utopischen Zukunftsausrufung zu entkräften, und wieder andere wurden für ganz neue Zwecke genutzt.

Wir werden unsere Forschung zunächst mit Fragen zur Biographie der Autoren, zur Neuorientierung der Praxis aus der Erfahrung des Exils, und zur Bedeutung des Gesamtwerkes der Architekten beginnen. Im weiteren soll sich die Aufmerksamkeit verstärkt auf die Biographie des Gebäudes, Schwierigkeiten zur historiographischen Einordnung des Werkes, Probleme der Restitution, Überlegungen zur Konservierung der Moderne sowie auf Fragen der Schützbarkeit dieser oft so stark veränderten Gebäude lenken

#### engl. Beschreibung

Escape into Modernism. Architects in Exile

As new archives, databases and digital research platforms are becoming available historians and theorists of architecture must face the challenge of tracing the trajectories of objects and ideas in motion. In this seminar we will address the threads and traces of modernisms in movement and aim to capture some of the complex experience of modernity through exile. Our research will explore buildings as documentary resources, and acknowledges the entanglement of the architectural object with a complex geo-political and cultural history.

Through a series of "object-biographies" of buildings by émigré architects who were forced to leave Europe during the national socialist regime before World War Two, we aim to explore and reconnect the loose threads of a history that had crushed so many.

These object-biographies – each reflecting on the materialities of the building, its architect, its original commissioners and its former and current inhabitants – describe a world in which all its constitutive parts are in movement and flux. Building upon and extending the extensive archive of the architect and historian Myra Warhaftig (1930-2008) we will collectively engage with a dispersed archive made of documents, drawings, photographs, writings and artefacts.

#### Bemerkung

siehe detailliertes Programm auf Moodle Lernplattform

#### Leistungsnachweis

Visuelle Präsentation nach Absprache, Dokumentation einer Archivrecherche, ca. 5.000 Wörter

### 118122807 Public Space and the City

F. Werner  
Seminar

Veranst. SWS: 2



Mo, unger. Wo, 13:30 - 17:00, Belvederer Allee 5 - Seminarraum 005, 09.04.2018 - 09.07.2018

### Beschreibung

"Public space is partly what makes cities, and as such it has been at the core of urban studies and many disciplines [...]" (Bodnar 2015). Depending on the disciplinary perspective (e.g. sociology, geography, political science, anthropology, planning or architecture) the definition of public spaces varies, but most common is the understanding "that public space includes all areas that are open and accessible to all members of the public in a society, in principle though not necessarily in practice." (Neal 2010). From this initial point the class will provide insights in the social production and construction of public spaces. Exploring areas like democracy, privatization, security, digitalization as well as exclusionary and gender aspects we will discuss the challenges and opportunities of everyday practices in public spaces. In addition, we look at the meanings, usages and appropriations of public spaces in different contexts. Guiding questions will be: What is public space? Public space – for whom (and whom not)? Is the public space dead or still alive but renewed in a different form?

Richtet sich an: MA EU und AdUrb

Termin: montags, 13:30 bis 17:00 Uhr (Start: 09. April 2018)

Course requirements: regular and active participation, literature preparation, and a final paper.

## 118123301 Applied System Dynamics for Urban Modeling and Simulation

### R. König

Veranst. SWS: 2

Seminar

Do, Einzel, 09:15 - 16:45, Belvederer Allee 1a - Allg. Medienpool 003, 05.04.2018 - 05.04.2018

Mi, wöch., 13:30 - 15:00, Belvederer Allee 1a - Allg. Medienpool 003, 11.04.2018 - 04.07.2018

### Beschreibung

Im Rahmen des Seminars werden die Teilnehmer in weiterführende Techniken zur urbanen Modellierung und Simulation, basierend auf System Dynamics Methoden eingeführt. Wir werden uns mit der Modellierung komplexer räumlicher Systeme auf regionaler und urbaner Ebene befassen. Es werden Analyse zur Nutzung urbaner Strukturen eingeführt (z.B. Fußgängerströme oder ökonomische Potentiale) sowie Modelle für Interaktionen von Flächennutzungen vorgestellt. Mit System Dynamics Modellen können zeitliche Veränderungen von Stocks and Flows simuliert werden. Die im Rahmen von Block-Seminaren erlernten Fähigkeiten werden im Rahmen des Planungsprojekts für neue Städte in Äthiopien angewandt. Es wird erwartet, dass die Kursteilnehmer im letzten Semester den Kurs „Introduction to System Dynamics for Modeling Urban Metabolism“ absolviert haben.

### engl. Beschreibung

The participants of this seminar are introduced to advanced urban modeling and simulation techniques based on system dynamics methods. We deal with the modeling of complex spatial systems on the regional and urban level. In this context computational analysis methods for urban fabric (e.g. for pedestrian movement or economic potentials) and models for computing interactions between land uses are introduced. By means of system dynamics models we can simulate temporal changes of stocks and flows. The learned skills are applied in an urban planning project for new towns in Ethiopia. It's expected that the participants have absolved the course "Introduction to System Dynamics for Modeling Urban Metabolism" from the previous semester.

### Bemerkung

Mi, 13:30 Uhr

Ort: Computerpool, Belvederer Allee 1a

Beginn: Do, 05.04. (zeitgleich mit Planungsprojekt InfAR)

### Voraussetzungen

Studiengänge: Master Advanced Urbanism, Master Europäische Urbanistik, Master Media Architecture, Master Architektur

**1764274 Advanced Computational Methods****R. König**

Veranst. SWS: 2

Seminar

Do, Einzel, 09:15 - 16:45, Belvederer Allee 1a - Allg. Medienpool 003, 05.04.2018 - 05.04.2018

Mi, wöch., 13:30 - 15:00, Belvederer Allee 1a - Allg. Medienpool 003, 11.04.2018 - 04.07.2018

**Beschreibung**

Voraussetzung für die Belegung dieses Kurses ist die parallel oder vergangene Teilnahme eines Kurses der Professur Computational Architecture, oder gute Programmierkenntnisse. In diesem Seminar werden vor allem die Programmier-Fähigkeiten und deren Anwendung vertieft. Inhaltlich befassen wir uns mit der Kombination verschiedener räumlicher Analysemethoden mit evolutionären Algorithmen zur Optimierung bestimmter Aspekte urbaner Planungen, städtebaulicher oder architektonischer Entwürfe. Die Semesterleistung besteht in der Definition und Implementierung einer selbst definierten Aufgabe, welche die im Rahmen des Seminars erlernten Fähigkeiten anhand eines praktischen Beispiels anwendet.

**engl. Beschreibung**

Requirement for choosing this seminar is the parallel of past participation at a course of the Professorship Computational Architecture, or good programming skills. In this seminar the programming skills and their application are enhanced. Content wise we deal with the combination of various spatial analysis methods with evolutionary algorithms for the optimization of certain urban planning aspects. The semester performance it the definition and implementation of a self-defined task, which exemplifies the skills that are learned during the seminar.

**Bemerkung**

Mi, 13:30 Uhr

Ort: Computerpool, Belvederer Allee 1a

Beginn: Do, 05.04.2018 (zeitgleich mit Planungsprojekt InfAR)

**Voraussetzungen**

Studiengänge: Master Architektur, Master Urbanistik, Master Advanced Urbanism, Master Europäische Urbanistik, Master Media Architecture