

# Geography: Global Change and Sustainability

Master of Science



**Onboarding event, 4th Oct 2023**

**Gudrun Haindlmaier  
Patrick Sakdapolrak**

Study today in Vienna how to create a sustainable tomorrow!

# Agenda

- Get to know you
- Get to know the programme
- Get to know the specializations
- Get to answer your questions

**Get to know you**

*Go to*

[www.menti.com](https://www.menti.com)

*and enter the code*

**8664 4439**



# Welcome at IfGR!

## Working groups

<https://geographie.univie.ac.at/>



Population geography and demography



Digital Geography



Didactics of geography and economic education



Geoecology



ENGAGE - Geomorphological Systems and Risk Research



Human Geography | Economic Geography



Cartography and geographic information



Spatial research and spatial planning



Urban Studies

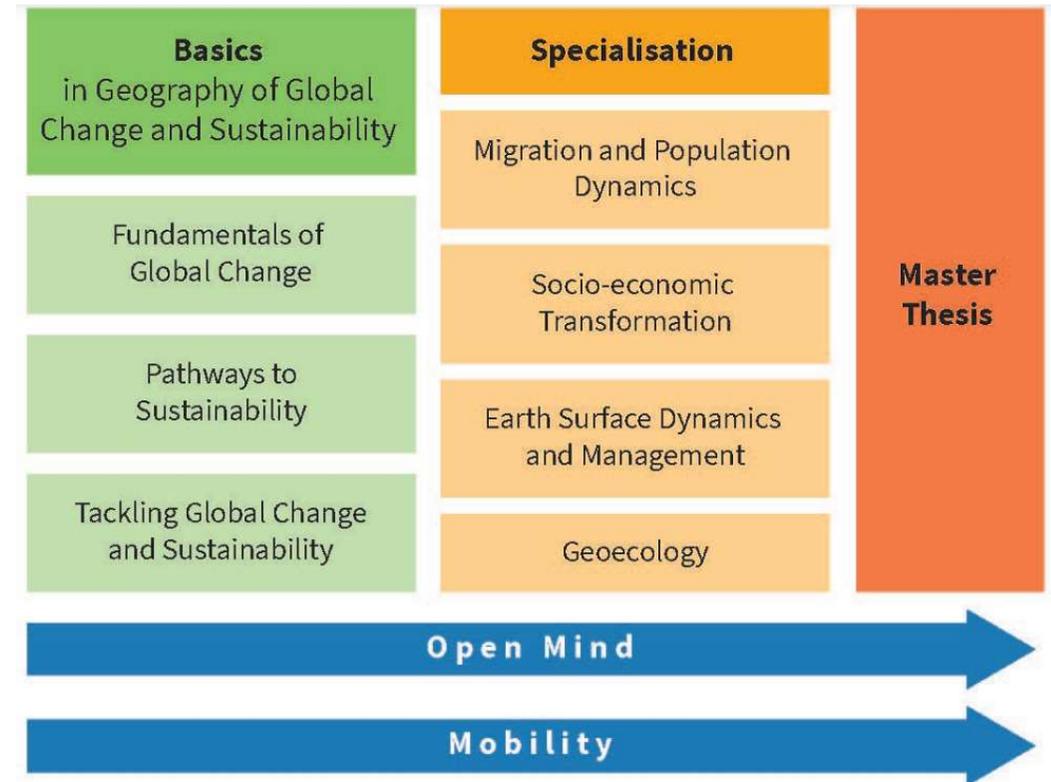
## What are we aiming for?

- Graduates are able to identify challenges and complex problems in geography from a **natural and social science perspective** in the context of global change and the sustainability debate as well as to develop evidence-based solutions
- **International perspective** on current theory-based geographical research on the causes and consequences of global change, social and environmental challenges in the context of sustainability and related fields of practice
- Emphasis on **scale-dependent, spatio-temporal approaches** to the dynamics of global change and sustainability
- Balance between **thematic specialisation** and embedding in a holistic context
- Interdisciplinary **research as well as training** of methodological and technical skills



## What do we offer?

- Solid **thematic and methodological basis**
- **Specialisation** in one of four areas:
  - Migration and Population Dynamics
  - Socio-economic Transformations
  - Earth Surface Dynamics and Management
  - Geoecology
- **Project-centered teaching** supports a broad variety of skills for your future job assignments
- **Mentoring** both from academia and practice for excellent students
- Individual focus possible (research or applied focus)
- Flexible and **innovative formats** („mobility“ and „open mind“ module)



**More information:** <https://studieren.univie.ac.at/en/degree-programmes/master-programmes/geography-global-change-and-sustainability-master/>

## Study Programme

The master's programme consists of the following modules:

- Compulsory module group Global Change and Sustainability (20 ECTS)
- Preparation Module (5 ECTS)
- Compulsory module group Specialisations (30 ECTS)
- Open Mind Modules I and II (10 ECTS)
- Mobility Module (25 ECTS)
- Master's Thesis (25 ECTS) and
- Defensio (5 ECTS)

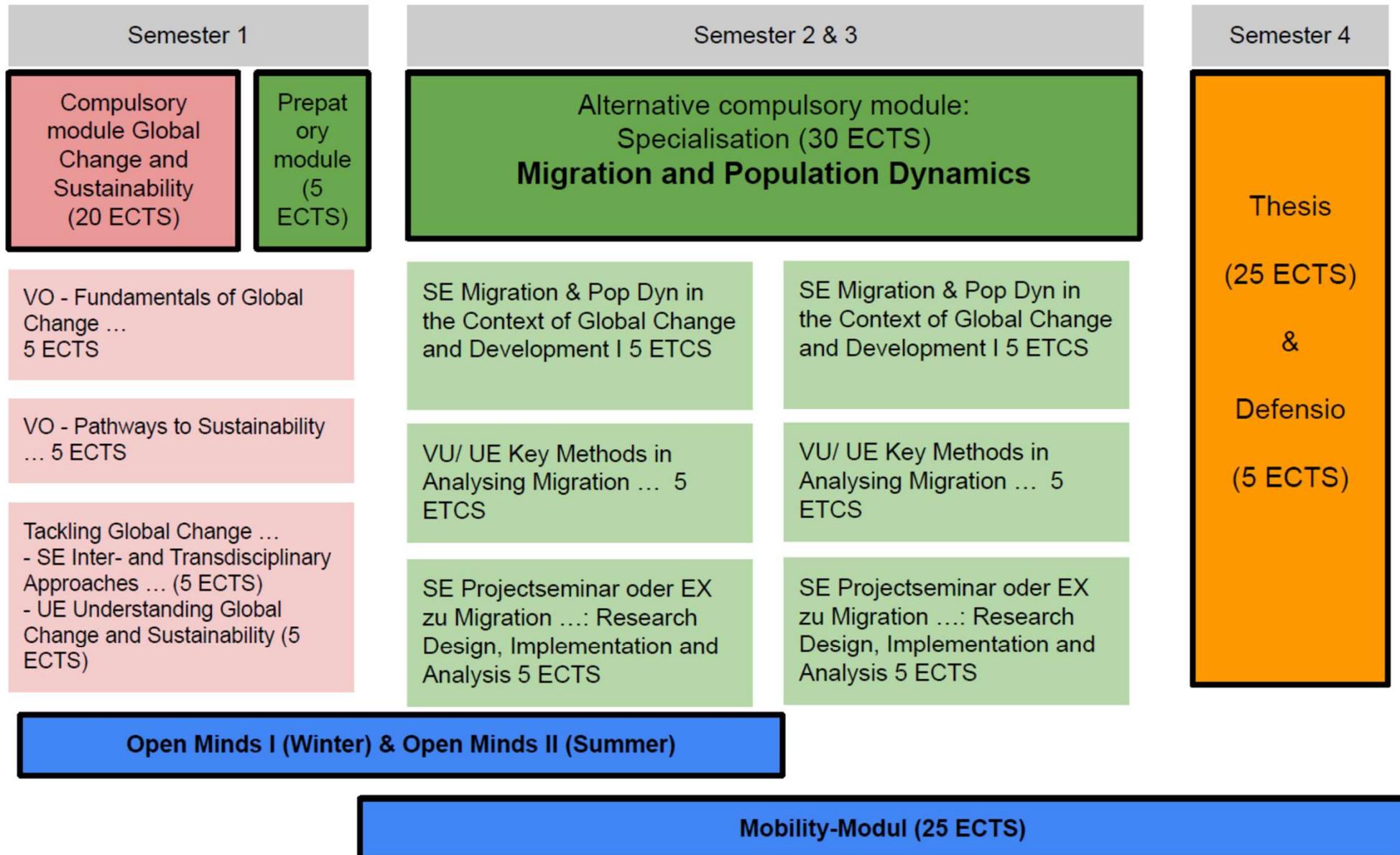
### Five Concepts

which you will deal with during your studies:

- Earth Surface Dynamics
- Global Change
- Population Dynamics
- Geomorphology
- Assessment of natural hazards

... and many more.

# Suggested Pathway



## Preparatory module - Basics courses

- Orientation period until 15.11.2023
  - you can follow multiple basics courses to decide about the specialisation
  - if you want to keep this option open, you have to follow the courses in parallel. A switch to a basics course that you have not followed mid-November is not possible
  - a decision for one specialisation should be made by mid-November
  - You cannot follow multiple specialisations in parallel
  
  - For all who are registered in multiple specialisation, please deregister and keep only one specialisation. You can still follow multiple once and decide definitely by 15.11.2023
-

## Get to know the specialisations

- **Migration and Population Dynamics**
  - **Socio-economic Transformations**
  - **Earth Surface Dynamics and Management**
  - **Geoecology**
-

# **D: Geoecology: Applied Soil Science, Wetlands, Landscape Analysis and Evaluation**

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## ABOUT THE GEOECOLOGY SPECIALISATION

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### Suggested pathway:

1st winter term    VU Basics in Geoecology

1st summer term    VU Wetland Biogeochemistry  
PR Wetland Analysis  
VU Landscape Analysis  
VU Soil Mapping

2nd winter term    PR Landscape Evaluation  
PR Soil Analysis

2nd summer term    MSc thesis in Geoecology



**3 pairs VU vs. PR**

VU: Some theory

PR: Emphasis on practical skills

Most courses are embedded in our  
research projects



# ABOUT THE GEOECOLOGY SPECIALISATION

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## Wetlands: Our research focus

### VU Wetland Biogeochemistry:

- Focus on matter cycling
- Gaseous, solute, and solid matter fluxes
- Some chemistry, field and lab work

### PR Wetland Analysis

- Focus on gaseous fluxes
- Field instruments
- Hands- on approach



## ABOUT THE GEOECOLOGY SPECIALISATION

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### Soils: Connecting traditional approaches to state of the art research

#### VU Soil Analysis:

- Have (or get) some soil science knowledge
- Some theory, focusing on lab work
- Applied issues: Nutrients, soil organic matter, soil substrates

#### PR Soil Mapping

- Field work focus
- Know your soils
- Emphasis on landscapes, connection to Geomorphology



## ABOUT THE GEOECOLOGY SPECIALISATION

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### Landscape Ecology: Job oriented skills for Environmental Consulting

#### VU Landscape Analysis:

- Vegetation analysis and bioindication
- GIS and/or modelling
- Basis for applied landscape Ecology

#### PR Landscape Evaluation

- Focus on the project: Writing, presenting
- Very applied, involving experts from environmental consulting bureaus
- Goal: Reporting, presenting, defending a project



## ABOUT THE GEOECOLOGY SPECIALISATION

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### **You should specialize in Geoecology if:**

- the application of simple chemistry doesn't scare you
- you appreciate a strong natural science foundation
- you are interested in lab work and technical skills
- you want to understand and tackle great sustainability challenges:  
Climate change, Biodiversity loss, soil degradation
- you are looking for real expert knowledge in Wetlands

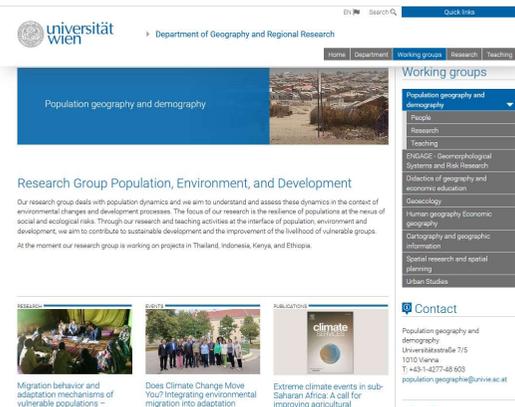
**No Science background required, but we do require intrinsic motivation and willingness to acquire any missing knowledge and skills**

# A: Migration and Population Dynamics

# Who are we?

## Research Group Population, Environment, and Development

## Teaching staff involved in the programme



Website:  
[population.univie.ac.at/](http://population.univie.ac.at/)



Patrick Sakdapolrak



Marion Borderon



Harald Sterly



Simon Bunchuay-Peth



Twitter:  
[@TransForm\\_Res](https://twitter.com/TransForm_Res)



Facebook:  
[@TransFormResearch](https://www.facebook.com/TransFormResearch)



Ayansina Ayanlade



Coline Garcia

# What do we do?

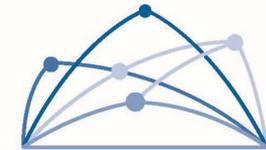
## Vision

We conduct ground-breaking research on the nexus of migration and global change. We seek to advance academic knowledge and debates on the (im-)mobility of populations in the context of environmental change and social transformation processes, and to conduct research with societal relevance

## Core research areas

- Drivers of migration in the context of global change;
  - Impact of migration in the context of global change;
  - Vulnerability and resilience of coupled and connected livelihoods and social-ecological systems;
-

# Suggested pathway



Trans | Form

## 1st term

- VU Basics in Migration and Population Dynamics

## 2nd term

- SE Migration and Population Dynamics ... – Qualitative Research Design, Implementation and Analysis
- UE Key Methods in Analysing Migration and Population Dynamics – Qualitative Research Methods
- SE Migration and Population Dynamics in the Context of Global Change and Development I

## 3rd term

- SE Migration and Population Dynamics ... – Quantitative Research Design, Implementation and Analysis
- UE Key Methods in Analysing Migration and Population Dynamics – Quantitative Research Methods
- SE Migration and Population Dynamics in the Context of Global Change and Development II

## 4th term

Master thesis

## Does Climate Change Move You? Integrating environmental migration into adaptation policies

*Migration, environment, and climate change (MECC) – Workshop*

Image 1 of 4



UNFCCC focal points, members of relevant ministries and civil society organizations from Moldova, Tajikistan and Turkmenistan took part in the workshop.

Our team member Dr. Harald Sterly together with Dr. Sounjadeep Banerjee hosted International Short Course "Does Climate Change Move You? Integrating environmental migration into adaptation policies" which took place between 29.08.2022 and 31.08.2022 at the University of Vienna.

The course addressed the increasing need to accommodate the nexus of migration, environment, and climate change (MECC) into existing and future adaptation planning. UNFCCC focal points, members of relevant ministries and civil society

 **TransForm: Research Group Population, Environment, & Development**  
Gepostet von Rachael KD · 1. August

#ResearchNotes

Find out more about the findings from TransForm's current researchers!

TransForm's Student Assistant and Master's student Johanna Kripp recently returned from her thesis fieldwork in Thailand. Here, she shares about her experience:

"... Mehr anzeigen



Insights und Anzeigen ansehen [Beitrag bewerben](#)

## Why should you join Specialisation A: Migration

- Interest in issues related to migration in the context of global change
- Interest in issues related to the global South
- Deepen skills in empirical social science research and mixed methods approaches
- Not afraid of statistical analysis

## **B: Socio-economic Transformation**

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# Who are we?

**Human geography | Economic geography**

<https://geographie.univie.ac.at/en/working-groups/human-geography-economic-geography/>

 @EconGeoVienna



Michaela Trippl



Gudrun Haindlmaier



Sebastian Fastenrath



Erika Faigen



Maximilian Benner



Jannik Kastrup

# What do we do?

## Vision

We address multiscalar **socio-economic, -technical and -ecological sustainability transitions** in response to (grand) societal challenges. Our research activities are theory-led, evidence-based, and policy relevant.

## Core research areas

- Uneven **geographies of innovation-exnovation dynamics** and the **places and spaces of sustainability transitions**
- **Pathways to green, inclusive and just regional development**
- **Restructuring of global production networks** and regional transformation
- Place-based **transformative innovation and industrial policies** and **multi-level governance challenges**

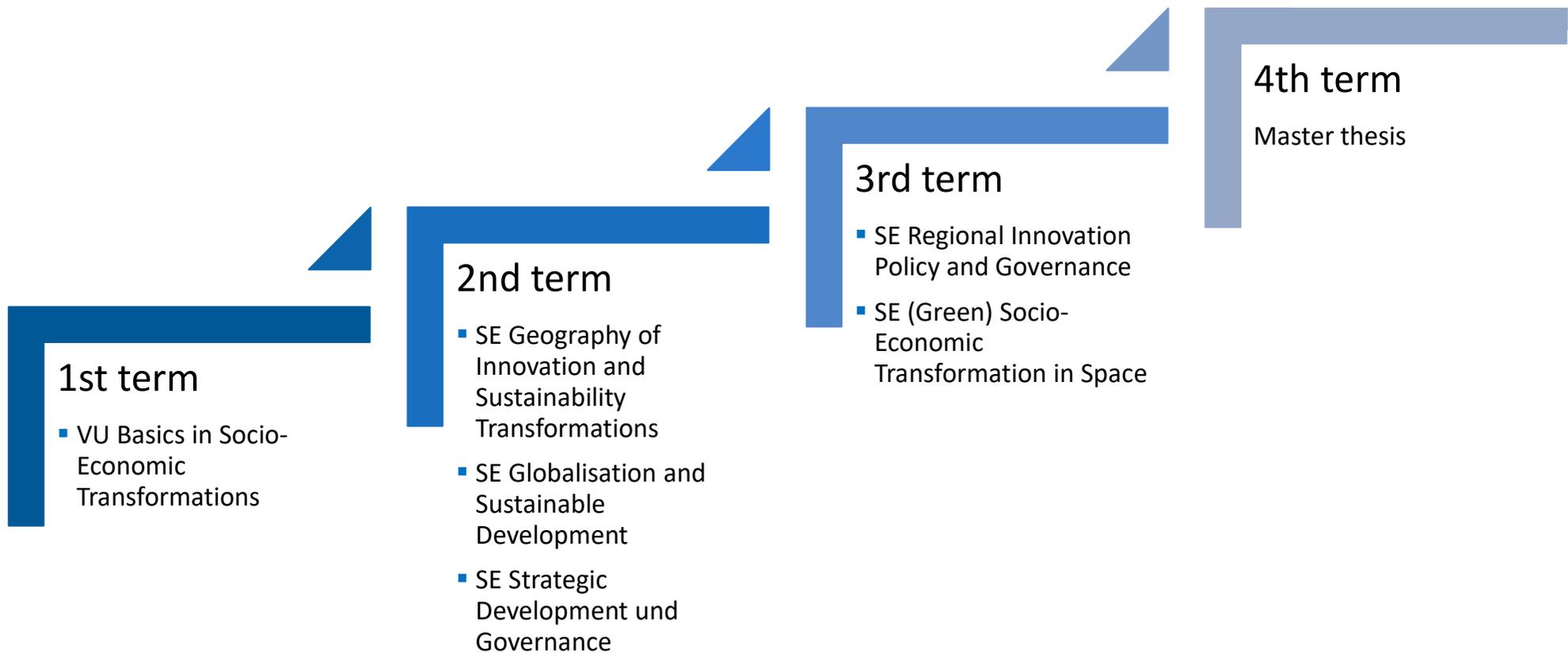


RIS4 DANU



**POLISS**  
POLICIES FOR SMART SPECIALISATION

# Suggested pathway



# Applications of *Socio-Economic Transformations*



- Combatting territorial manifestations of global sustainability challenges and region-specific crises
- Finding more sustainable ways to meet social needs (e.g., energy, food, mobility)
- Shaping industrial transitions: making industries in the region cleaner; softening the social repercussions of phasing-out “brown” economic activities and ensuring inclusive access to “green” activities
- Designing and implementing effective transformative innovation and industrial policies



## Why study *Socio-Economic Transformations*?

- Deepen your understanding of the spatial dimension of innovation-exnovation dynamics and sustainability transitions
- Learn more about the “thorny” road to green, inclusive and just regional development and how to deal with resistance to change by powerful actors
- Get to know approaches to develop place-based strategies and policies in response to territorial sustainability challenges, problems and needs
- Don’t fall for the “easy” solution: go beyond technological solutions, look at the societal dynamics, tackle “wicked” problems with systemic solutions





## C: Earth Surface Dynamics and Management

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Mag.  
**Aleksandra Tyjan**  
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Weitere Informationen

Verwaltung

- Nationale und EU-Projekte
- Verwaltung

## Who is the ENGAGE Team?

- Around 20 persons, including secretaty, student assistants, prae-docs, post-doc, senior lecturer, senior scientist, professor
- Most of the teaching will be carried out by us:



Univ.-Prof. Dipl.-Geogr. Dr.  
**Thomas Glade**  
Room: A0504  
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M: +43-664-60277-48650  
[thomas.glade@univie.ac.at](mailto:thomas.glade@univie.ac.at)  
Altimetric report  
Further information  
[Personal website \(University of Vienna\)](#)

Working group leader

- Geomorphological systems
- Natural hazards and consequences thereof
- Hazard and risk analysis, monitoring
- Risk governance



Mag. Dr.  
**Ronald Pöppl**, BA  
Room: A0508  
T: +43-1-4277-48653  
[ronald.poepl@univie.ac.at](mailto:ronald.poepl@univie.ac.at)  
Altimetric report  
Further information  
[Personal Website \(University of Vienna\)](#)  
Website HI-CONN

Senior Lecturer  
Leader of the sub-working group  
Human Impact and Connectivity

Working Group  
Human Impact  
& Connectivity

- Physical Geography
- Geoecology
- Connectivity in river (catchment) systems (Focus: Human Impact)
- Sustainable use of resources (Foci: soil, water, climate change contexts)

- Fluvial Geomorphology (Focus: Human Impact)
- River and catchment management (Foci: Nature Based Solutions, Aquatic Ecology)
- Human-environment interactions
- Natural Hazards



Dr.  
**Philipp Marr**  
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[philipp.marr@univie.ac.at](mailto:philipp.marr@univie.ac.at)  
Altimetric report  
Further information  
[Personal website \(University of Vienna\)](#)

Senior Scientist

- Periglacial Geomorphology, Quaternary Science
- Scientific support NoeSLIDE project
- Geochronology
- Holocene climate dynamics



Dr.  
**Janek Walk**  
Zimmer: B0503  
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Further information  
[Personal website \(University of Vienna\)](#)

Post doc

- Dryland geomorphology
- Quaternary geochronology and landscape evolution
- Human impact: Sediment budgets, mining

- Satellite und ground-based (UAS) remote sensing
- GIS: Spatial analyses and geomorphometry
- Soil science: Sedimentology and geochemistry



## What is interesting for us ...

- Which types of environmental changes result from climate change in high-mountain areas?
- How does environmental change affect society?
- How can we reduce the risks associated to landslides?
- Which strategies are useful to manage our rivers in a sustainable way?
- Why are all natural disasters actually social disasters?

## Research topics

- Long-term monitoring of landslides in Lower Austria (**Core Facility eSurfLab, esurflab.at**)
- Landslide modelling + hazard & risk analyses
- Nature based solutions in mountain areas
- Re-evaluation of susceptibility maps
- Human Impact and Connectivity
- Management of fluvial systems
- Periglacial geomorphology
- Dryland geomorphology
- ...

Potential topics for master theses on website or if you want to participate in field work, just reach out to us personally

### Thesis as a key to research ...

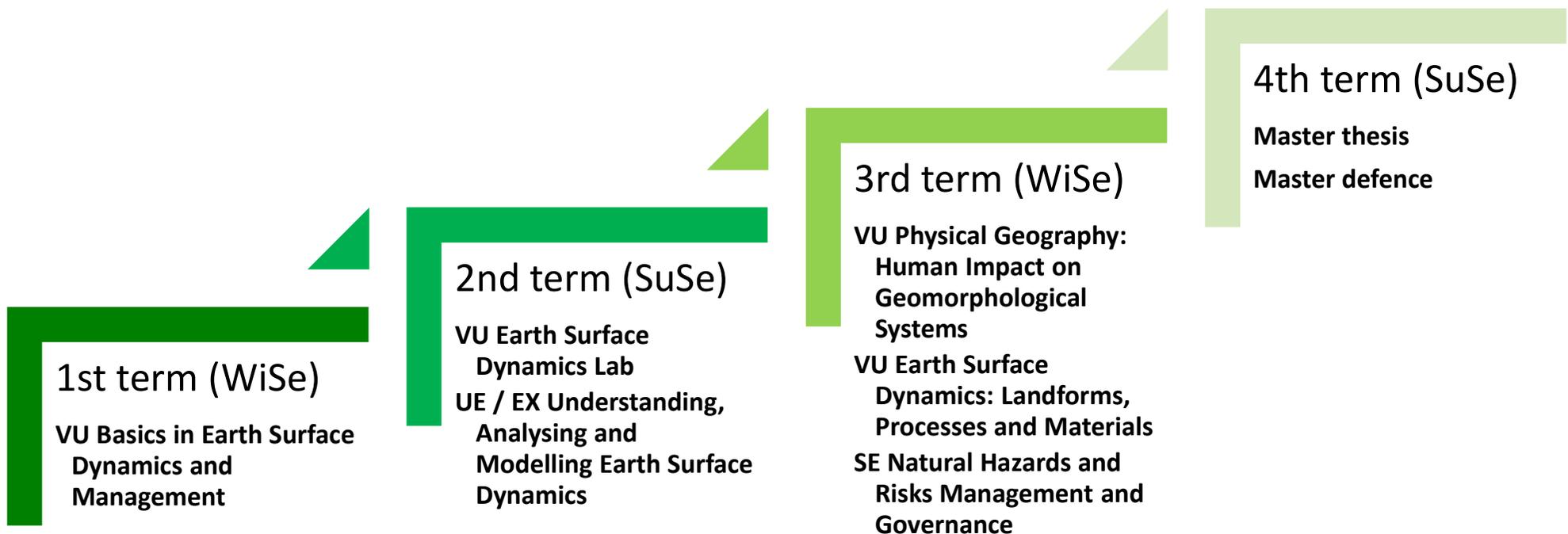
Students at the Institute usually come into contact with research through writing a thesis, no matter if Bachelor, Master level or even a PhD. When determining your own thesis topic we very much appreciate own project ideas, however you can also choose from a set of pre-offered topics found in the attachment.

Doesn't matter if you have your own project idea or if you are interested in a pre-offered topic: please don't hesitate to contact the associated supervisor, we are looking forward to hearing from you.



Possible thesis topics

## Suggested pathway



# Why study Earth Surface Dynamics and Management?

- You want to dive deep into the complex spatiotemporal dimensions and feedbacks of processes forming the Earth's surface
- You are fascinated by the human impacts on geomorphological systems and related environmental and societal consequences
- You want to learn about sustainable management strategies to cope with anthropogenic effects on geomorphological systems as well as with natural disasters
- You look forward to the familiarization with and application of a large toolbox for advanced geographers including field work, lab methods, theoretical exercises, spatial analyses using GIS and conceptual as well as numerical modelling

# WANT TO KNOW MORE?

› WE GOT YOU!

Follow us on our social media channels to stay up-to-date!

We also offer internships and topics for bachelor and master theses.



**FOLLOW US NOW!**

ENGAGE



## Mobility Module (25 ECTS)

- Courses relevant for Global Change and Sustainability from other Master studies at University of Vienna or other Universities
- Participation in related research projects at the Department of Geography or University of Vienna
- Internships with clear relevance to MA studies (research or application) (max. 10 ECTS)

**You need to get in touch with us BEFORE starting your mobility activities!**

Contacts for recognition of courses etc  
for mobility module:

Outgoing Mobility:

<https://international.univie.ac.at/en/>

Mobility coordinators ERASMUS @IfGR:

Migration and Population Dynamics:  
Simon Bunchua-Peth [simon.bunchuay-peth@univie.ac.at](mailto:simon.bunchuay-peth@univie.ac.at)

Socio-economic Transformations:  
Gudrun Haindlmaier [gudrun.haindlmaier@univie.ac.at](mailto:gudrun.haindlmaier@univie.ac.at)

Earth Surface Dynamics and Management:  
Thomas Glade [thomas.glade@univie.a.at](mailto:thomas.glade@univie.a.at)

Geoecology:  
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Norbert Weixlbaumer [norbert.weixlbaumer@univie.ac.at](mailto:norbert.weixlbaumer@univie.ac.at)

Martin Heintel [martin.heintel@univie.ac.at](mailto:martin.heintel@univie.ac.at)

Yvonne Franz [yvonne.franz@univie.ac.at](mailto:yvonne.franz@univie.ac.at)

# Get to know the Directorate of Studies (SPL) & StudienServiceCenter (SSC)

## Studienprogrammleiter

Robert Peticzka

Bachelor Geographie  
Master Geographie

## Vize-SPL

Gudrun Haindlmaier

Master Raumforschung und  
Raumordnung  
Master Urban Studies (4 Cities)

## Vize-SPL

Andreas Riedl

Master Kartographie und  
Geoinformation

## Vize-SPL

Christiane Hintermann

Bachelor UF GW (Lehramt) Master UF  
GW (Lehramt)

## StudienServiceCenter

Raum C418  
Universitätsstraße 7 (NIG)  
A-1010 Wien

[https://ssc-geo-astronomie.univie.ac.a  
t/  
ssc.gga@univie.ac.at](https://ssc-geo-astronomie.univie.ac.at/)

Dienstag 10:00-12:00  
Mittwoch 14:00-16:00

**Head of Unit:** Daniel Görgl

## Contacts for SPL29

Martina Kottik  
Adele Ischia  
Linda Kiss-Giessauf  
Christian Sicherer

## Partner Universities of IfGR (Aug 2022)

- Humboldt-Universität zu Berlin (DE)
  - Rheinische Friedrich-Wilhelms-Universität Bonn (DE)
  - Universität Hannover (DE) Carl v Ossietzky Universität Oldenburg (DE)
  - University College London (University of London) (UK)
  - National University of Ireland, Maynooth (IE)
  - Vrije Universiteit Brussel / Université Libre de Bruxelles (BE)
  - Universiteit van Amsterdam (NL)
  - University of Turku (SF)
  - Università degli studi di Roma Tre (IT)
  - Università degli studi di Trieste (IT)
  - Università degli studi di Milano-Bicocca (IT)
  - Universitatea Babeş-Bolyai (RO)
  - Univerzita Karlova Praha (CZ)
  - Sveučilište u Zagrebu (HR)
  - *In preparation: University of Linköping (SE)*
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## STV

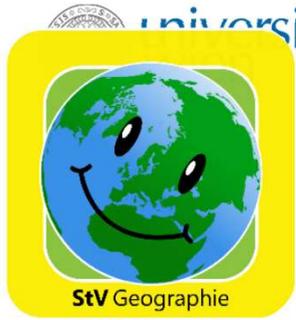
Students' representatives group

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**Welcome!**

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# Who are we?



Miri



Leandra



Luisa  
and many more...



Sebi



Chrissy



Markus (Ömer)



Dany



Lena

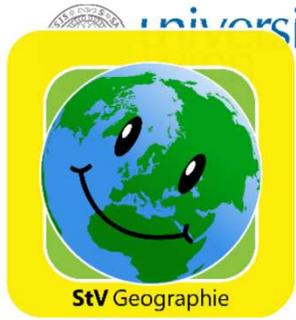


Hannah



Max

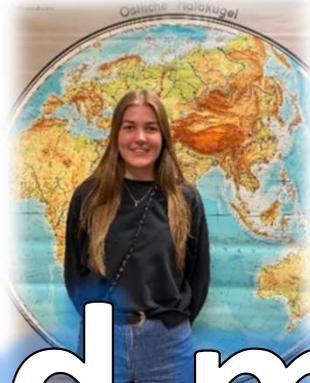




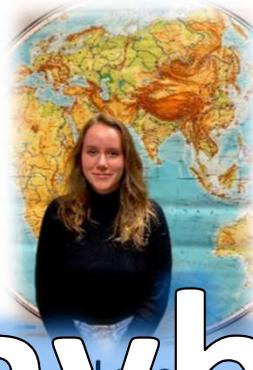
# Who are we?



Miri



Leandra



and many more



Sy



Thry

# and maybe you?



Markus (Ömer)



Dany



Lena

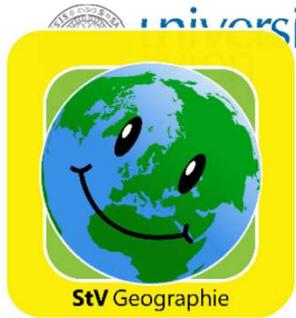


Hannah



Max





## Our responsibilities

### Counselling

In the „StV Kammerl“, via email / phone

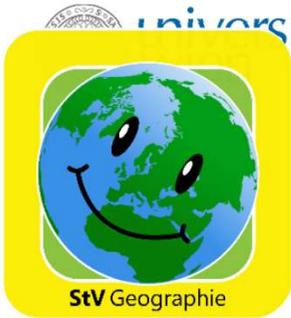
### Representation of student interests

Study conference, department conference, appointment committees, ...

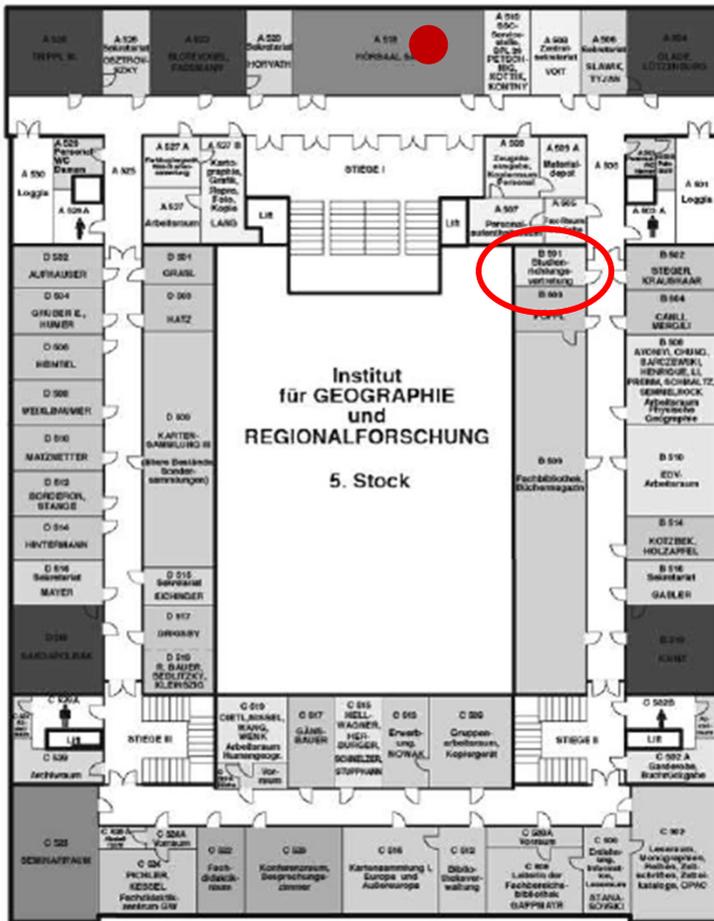
### Events

Monthly Ge(o)t-together, Geo-Hiking, Geo-Party, Coffee/Punsch to G(e)O, ...





# Our „StV-Kammerl“



„StV-Kammerl“ on the 5th floor  
Neues Institutsgebäude (NIG)  
Universitätsstraße 7, room B501  
1010 Wien

Tel: 01 4277 – 48609

Mail:  
[stv.geographie@oeh.univie.ac.at](mailto:stv.geographie@oeh.univie.ac.at)

Homepage:  
<https://www.stvgeographie.at/>



Institut für Geographie und Regionalforschung



universität  
wien



## What can we help with?

Questions, critics, improvement requests, suggestions...

... and also for coffee or club mate and chat!

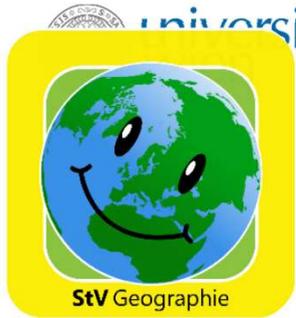


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## Upcoming Events

- 10.10.2023: Vienna by night
- 12.10.2023: get-together / „Sturmstand“
- 15.10.2023: Geo-hiking
- 18.10.2023: Monthly Ge(o)t-together
- 27.10– 29.10: Firstsemester seminar

For further informations follow our social-media-channels:

<https://www.stvgeographie.at/>

Instagram: @stvgeo\_vienna

Facebook: StV Geographie



Institut für Geographie und Regionalforschung

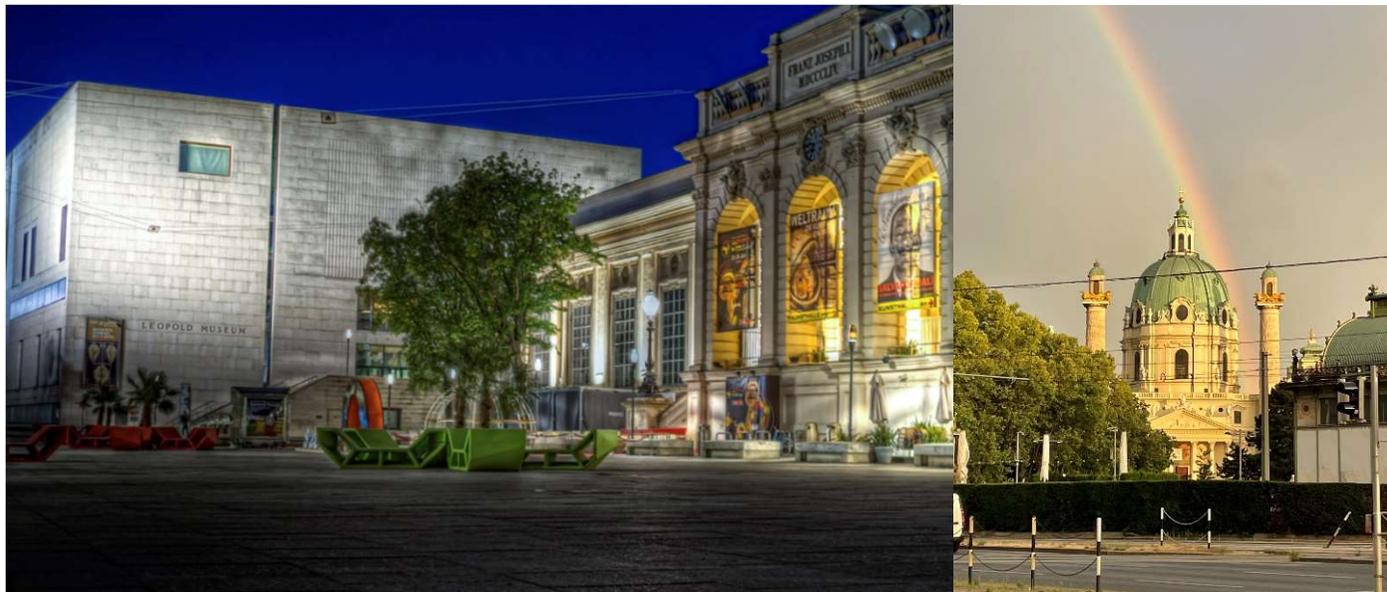


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wien



# October 10<sup>th</sup> - Vienna by night

- When: October 10<sup>th</sup>
- Meeting point: MuseumsQuartier (at the fountain)
- Time: 6:00 pm
- Open for all!
- Exploring the city and getting to know each other





# October 12<sup>th</sup> – Get-together / „Sturmstand“

- When: October 12<sup>th</sup>
- Where: Hof 2, UniCampus / Altes AKH
- Time: 3:00 pm
- Open for all!
- getting to know each other, connecting with students etc.
- At 5:00 PM meet at Hof 7 for some tasty austrian Sturm





# October 15<sup>th</sup> - Geo hike

- When: October 15<sup>th</sup>
- Meeting point: tba
- Time: 12 p.m.
- Open for all!
- Networking, hiking and picnic (get to know Vienne from it's green side)





# October 18<sup>th</sup> - Monthly Ge(o)t-together

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- When: October 18<sup>th</sup>
- Where: Cafe Kreuzberg  
(Neustiftgasse 103, 7<sup>th</sup> district)
- Time: from 8:00 pm
- Open for all!
- Networking, dancing and good music among geographers from different semesters
- This event takes place every third wednesday of the month (except holidays)



# October 27<sup>th</sup> to 29<sup>th</sup> – Firstsemester (Freshmen?) seminar

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- When: from October 27<sup>th</sup> to 29<sup>th</sup>
- Where: BOKU Teaching Forest in Forchtenstein
- Registration mandatory: **Places are limited!**  
(first come first serve)
- How to register: [geo.erstiseminar@gmail.com](mailto:geo.erstiseminar@gmail.com) or  
use the provided QR-code
- Costs: 20 € all inclusive
- Tips and tricks for studying, workshops  
networking, fun and more





STV Geographie

# Impressions from past years





# Pictures from different events



# Contact

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[stv.geographie@oeh.univie.ac.at](mailto:stv.geographie@oeh.univie.ac.at)



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<https://www.stvgeographie.at/>



StV Geographie



@stvgeo\_vienna

# Questions?

