

# let's talk about \_\_\_\_\_ global change

forster summer school explores  
\_\_\_\_\_ urban climate



21 july \_\_\_\_\_  
4 august 2023  
mainz  
germany

# hello!

Are you currently enrolled in a bachelor's, master's or PhD study program and would you like to take the opportunity to establish an international network and participate in interdisciplinary knowledge transfer?

Are you interested in learning more about climatic changes and its consequences for urban climate?

Would you like to exchange perspectives and develop your language and cultural skills?

## If so, then join Forster Summer School!

It is hosted annually by the Faculty of Chemistry, Pharmaceutical Sciences, Geography and Geosciences at the Johannes Gutenberg University Mainz. Each year, scientists from this fields take a closer look at a specific topic from the field of global change and explore various future-based perspectives.



# let's talk about global change!

This year Forster Summer School explores – urban climate.  
Adaption, development and sustainable transformation.

Global climate change and its associated impacts, such as weather extremes, represent one of the most urgent challenges of the 21st century.

Assuming that around two thirds of the world's population will live in cities in 2050, sustainable strategies must be (further) developed to make the lives of present and future generations climate-friendly and socially just.

## The goal of Forster Summer School:

The Forster Summer School 2023 is dedicated to scientific findings and controversies on urban climate, the influence of vegetation, changing human-air relations as well as green and smart city designs.

Join us to discuss possible approaches for long-term and sustainable improvement of the urban climate and identify opportunities for action – on a regional, global and international level.



# program overview



DAY	TOPIC
fri, 21 july	ARRIVAL AND GETTING TO KNOW EACH OTHER
sat, 22 july	LANGUAGE AND CULTURAL EXPERIENCE
sun, 23 july	BUILD A TEAM AND EXPLORE THE REGION
mon, 24 july	<u>OPENING – CLIMATE CHANGE AND URBAN CLIMATE</u>
tue, 25 july	IMPACTS ON CITIES AND PLANTS
wed, 26 july	ROOF / FACADE GREENING
thu, 27 july	BREATHABILITY
fri, 28 july	URBAN TREES
sat, 29 july	SUMMER LEISURE ACTIVITIES
sun, 30 july	INDIVIDUAL EXPLORATIONS
mon, 31 july	URBAN DESIGN AND TRANSFORMATION
tue, 1 august	CLIMATE ADAPTION PROJECT ON CAMPUS
wed, 2 august	CLIMATE PROTECTION MANAGEMENT
thu, 3 august	<u>KEY FINDINGS OF URBAN CLIMATE</u>
fri, 4 august	INDIVIDUAL DEPARTURE



# application

## Why should you participate in Forster Summer School?

### THREE KEY LEARNINGS YOU CAN EXPECT ...

- ... gain an enhanced and holistic perspective on the topic
- ... benefit from interdisciplinary (expert) knowledge
- ... build an international peer network with people from all around the world and take your language and cultural skills to the next level

**DATE** 21 July – 4 August 2023

**WHO MAY APPLY** undergraduate, graduate or postgraduate students

**FEE** 150 €\*

**APPLICATION PERIOD** 17th February – 15th April 2023

**DEADLINE** 15th April, 00:00 CET

*Please note that the whole program is held in English and places are limited. For application you will find a fillable PDF on our website. Please submit your complete application documents with a letter of motivation, CV, certificate of study and language certificates (if available) until 15th of April 2023.*

*\* Arrangement included: Course fees, materials, lunch fees during the lecture program, accomodation with breakfast, excursions. Travel, insurance and visa must be organized and paid independently.*

apply  
now!

scan or click



If you have any questions, do not hesitate to contact us:  
[international.nullneun@uni-mainz.de](mailto:international.nullneun@uni-mainz.de)

FB  
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Faculty of Chemistry,  
Pharmaceutical Sciences,  
Geography and Geosciences

JG|U

# program details

DATE + TIME	OVERVIEW	DESCRIPTION + SPEAKER	LOCATION
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## friday, 21 july – arrival and getting to know each other

	<b>WELCOME</b>	Registration and reception	Youth hostel »Don Bosco«, Mainz
19:00	<b>WELCOME DINNER</b>		Youth hostel »Don Bosco«, Mainz

## saturday, 22 july – language and cultural experience

09:30 – 13:00	<b>LANGUAGE WORKSHOP</b>	Survival-Kit for the stay ( <i>beginners</i> ) Everyday conversation skills ( <i>intermediate</i> ) → <i>Dr. Sandra Schellack</i> → <i>N.N.</i>	Chemistry building (2121), Campus JGU
13:00 – 14:00	<b>LUNCH BREAK</b>	Self-organised	City center, Mainz
15:00 – 17:00	<b>GUIDED TOUR</b>	Mainz highlights → <i>Guide »Geographie für Alle«</i>	City center, Mainz
	<b>FREE TIME</b>		City center, Mainz
19:00	<b>DINNER</b>	»Weinhaus Lösch«	City center, Mainz

## sunday, 23 july – build a team and explore the region

08:40 – 10:22	<b>TRANSFER</b>		
10:30 – 13:00	<b>CULTURAL VISIT</b>	Rafting Tour – UNESCO World Heritage Upper Middle Rhine Valley	Assmanshausen to Kaub
13:00 – 14:30	<b>LUNCH BREAK</b>	»Beim alten Zollhaus«	Kaub
14:30 – 16:30	<b>VISIT (OPTIONAL)</b>	Pfalzgrafenstein Castle	Kaub
16:00	<b>LECTURE (OPTIONAL)</b>	KLIMAkademie – Public lecture ( <i>in German</i> ): » <u>Menschheitsproblem Klimawandel – wissenschaftliche Grundlagen und die Dringlichkeit zu handeln</u> « ( <i>The human problem of climate change – scientific foundations and the urgency to act</i> ) → <i>Univ.-Prof. Dr. Wirth, Institute for Atmospheric Physics, JGU</i>	Institute of Molecular Biology, Lecture hall, Campus JGU
19:00	<b>DINNER</b>	Self-organised	

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09:30 – 10:00	<b>OFFICIAL WELCOME</b>	Opening words —→ <i>Dean of the Faculty 09, JGU</i> —→ <i>Head of International Office, JGU</i>	Naturwissenschaftliche Fakultät (NatFak), Room 07-232, Campus JGU
10:00 – 10:45	<b>PRESENTATION AND EXCHANGE OF IDEAS</b>	Opening-Pitches on content interests, motivation and goal setting —→ <i>Students</i> —→ <i>Prof. Dr. Efferth, Institute of Pharmaceutical and Biomedical Sciences, JGU</i> —→ <i>Dr. Jacobsen, Institute of Geography, JGU</i> —→ <i>Ph. D. Student Kuhl, Climatology Group, Department of Geography, JGU</i> —→ <i>Dr. Seelos, Institute of Geosciences, JGU</i> —→ <i>Prof. Dr. Seiffert, Department of Chemistry, JGU</i>	NatFak, Room 07-232, Campus JGU
10:45 – 11:00	<b>COFFEE BREAK</b>		
11:00 – 12:30	<b>LECTURE AND DISCUSSION</b>	»Planetary Emergency: How we got in ... and how to get out.« —→ <i>Prof. Dr. Seiffert, Department of Chemistry, JGU</i>	NatFak, Room 07-232, Campus JGU
12:30 – 14:00	<b>LUNCH BREAK</b>	»Baron«	
14:00 – 16:00	<b>PHOTO PROJECT – GROUP FORMATION</b>	Experiences of urban climate change from my city of origin / my study city —→ <i>Students</i>	NatFak, Room 07-232, Campus JGU
16:00 – 17:00	<b>CAMPUS TOUR</b>	—→ <i>Assistant students</i>	
18:00	<b>DINNER</b>	Self-organised	



# program details



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<b>tuesday, 25 july – impacts of climate change on cities and plants</b>			
09:30 – 11:00		Program will be published.	
12:00 – 14:00	<b>LUNCH BREAK</b>	Vegan cafeteria »Bambus«	
14:00 – 16:30	<b>LECTURE AND DISCUSSION</b>	»Influence of climate change in medical plants« → <i>Prof. Dr. Efferth, Institute of Pharmaceutical and Biomedical Sciences, JGU</i>	NatFak, Room 07-232, Campus JGU
19:30	<b>CONCERT</b>	Concert at Mainz School of Music → <i>Mainz School of Music</i>	Campus JGU

## wednesday, 26 july – roof / facade greening

9:30 – 12:00	<b>LECTURES AND DISCUSSION</b>	»Climate impact of plants in urban spaces« → <i>Prof. Dr. Hietel, Life Sciences and Engineering, Bingen Technical University of Applied Sciences</i> »Dust trapping capacity of specially selected plants« → <i>Dr. Seelos, Institute of Geosciences, JGU</i>	NatFak, Room 07-232, Campus JGU
12:00 – 14:00	<b>LUNCH BREAK</b>	»Bali Bistro«	
14:00 – 16:00	<b>HANDS-ON</b>	»Wind tunnel experiments of specially selected plants and evaluation by digital microscope« → <i>Dr. Seelos, Institute of Geosciences, JGU</i>	Laboratory, NatFak, Campus JGU
18:00	<b>DINNER</b>	Barbecue	Meadow in front of NatFak





# program details



DATE + TIME	OVERVIEW	DESCRIPTION + SPEAKER	LOCATION
<b>thursday, 27 july – breathability</b>			
09:30 – 12:00	<b>LECTURE AND WORKSHOP</b>	»Something in the air: Urban breathability and the rise of air quality technologies« → <i>Dr. Jacobsen, Institute of Geography, JGU</i>	NatFak, Room 07-232, Campus JGU
12:00 – 13:30	<b>LUNCH BREAK</b>	Zentralmensa (Cafeteria)	Campus JGU
14:00 – 17:00	<b>HANDS-ON</b>	»High-resolution spatio-temporal measurements of urban climate« → <i>N.N., Institute of Geography, JGU</i>	Campus JGU, City center
19:00	<b>DINNER</b>	»Jedermann's« – Regional and fresh cuisine	Mainz-Lerchenberg
<b>friday, 28 july – urban trees</b>			
9:30 – 11:30	<b>LECTURE AND SCIENTIFIC VISIT</b>	»Dendroclimatology in Urban Areas – how well are platanus and acer trees coping with drought stress in Mainz, Germany« → <i>Ph.D. Student Kuhl, Institute of Geography, JGU</i>	NatFak, Room 07-232, Campus JGU
12:00 – 13:30	<b>LUNCH BREAK</b>	»Diwan«	Campus JGU
14:00 – 16:00	<b>WORKSHOP</b>	»Trees and climate – Comparative damage and tolerance analyses of urban tree species in different regions of Germany«	Grüne Schule, Botanical garden, Campus JGU
18:00 – 20:00	<b>CULTURAL TOUR</b>	Vineyard tour	Oppenheim
<b>saturday, 29 july – summer leisure activities</b>			
9:30 – 14:00	<b>PRACTICAL LANGUAGE EXERCISES</b>	Everyday conversation in German – Market shopping in the city	NatFak, Room 07-232, Campus JGU and City center
14:00 – 15:00	<b>LUNCH BREAK</b>	Picnic on the banks of the Rhine River	City center
15:00 – 17:00	<b>FREE TIME</b>		Mainz
18:00	<b>INTERNATIONAL EVENING</b>	Specialties from all over the world and seasonal prepared products	House of youth, Mainz City center

# program details

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## sunday, 30 july – individual explorations

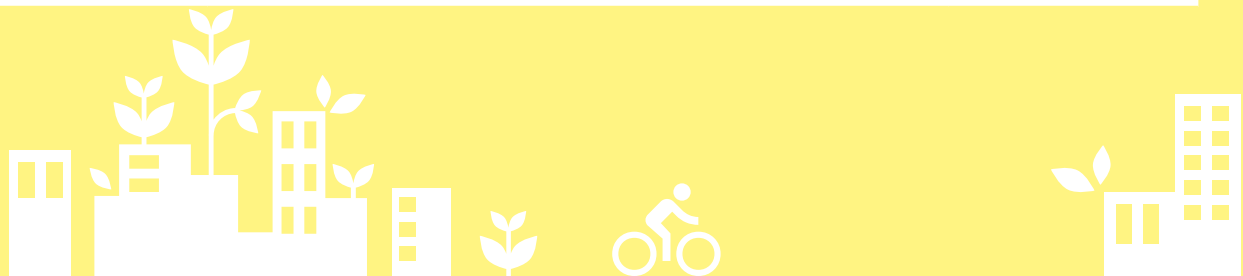
	<b>FREE TIME</b>	Explore Mainz or its beautiful surroundings on your own.	Gutenberg Museum, Cathedral (Dom), St. Stephan ...
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## monday, 31 july – urban design and transformation

9:30 – 11:00	<b>LECTURE AND DISCUSSION</b>	Keynote: »The sponge city principle with a focus on the BoRSIS research project« → <i>Ph.D. Student Walther, Hochschule Ruhr West, University of Applied Sciences</i>	NatFak, Room 07-232, Campus JGU
11:30 – 13:00		Keynote: »Sustainable open space and urban design« → <i>Prof. Dr.-Ing. Dieterle, Frankfurt University Of Applied Sciences</i>	
13:00 – 14:30	<b>LUNCH BREAK</b>	»Baron«	
15:00		Program will be published.	NatFak, Room 07-232, Campus JGU

## tuesday, 1 august – climate adaption project on campus

09:30 – 12:00	<b>PRESENTATION AND BASICS</b>	Program will be published.	
12:00 – 13:30	<b>LUNCH BREAK</b>		
13:30 – 16:00	<b>HANDS-ON</b>	Green and flowering area design	
16:00 – 16:30	<b>COFFEE BREAK</b>		
16:30 – 17:30	<b>PRESENTATION</b>		
18:30	<b>DINNER</b>		



# program details

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<b>wednesday, 2 august – climate protection management</b>			
09:30 – 12:00	<b>VISIT OF REGIONAL PROJECT</b>	Climate protection projects in Worms: Heat walk	Worms
12:00 – 13:30	<b>LUNCH BREAK</b>		
13:30 – 17:00	<b>GROUP WORK</b>	Climate protection projects in Worms: Citizen Survey - Exterior Design	Worms
18:00	<b>DINNER</b>		

## thursday, 3 august – key findings of urban climate

09:30 – 11:30	<b>PHOTO PROJECT - GROUP WORK</b>	Impressive pictures – Experiences of urban climate changes from my city of origin/my study city and Rhineland-Palatinate cities. Adaption, development, sustainable transformation.	NatFak, Room 07-232, Campus JGU
12:00 – 13:30	<b>LUNCH BREAK</b>		
14:00 – 17:00	<b>WRAP-UP SESSION PRESENTATION GROUP WORK</b>	Experiences of urban climate changes. My city of origin/my study city – Rhineland-Palatinate cities.	NatFak, Room 07-232, Campus JGU
18:00	<b>FAREWELL DINNER</b>		

## friday, 4 august – individual departure

