

OpenGeoHub Summer School 2023



Agenda

Sunday
August 27th, 2023

Bogumiła Krygowskiego 10, 61-680
Poznań, Poland

18:00 - 21:00

Icebreaker

Location will be sent via
Mattermost

Monday
August 28th, 2023

9:00 - 10:30

Plenary introduction, including introduction to the hackathons
Tom Hengl - Director OpenGeoHub Foundation

Room 21

10:30 - 11:00

Coffee break

11:00 - 12:30

Tidy geographic data with sf, dplyr, ggplot2, geos and friends (part 1)
Robin Lovelace

Room 21

11:00 - 12:30

Introduction to working with spatial data in Python (part 1)
Michael Dorman

Room 18

12:30 - 13:30

Lunch break

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13:30 - 15:00	Tidy geographic data with sf, dplyr, ggplot2, geos and friends (part 2) Robin Lovelace	Room 21
13:30 - 15:00	Introduction to working with spatial data in Python (part 2) Michael Dorman	Room 18
15:00 - 15:30	Coffee break	
15:30 - 16:15	Hackathon workshop Krzysztof Dyba, Niels Ratnaweera	Room 21
16:15 - 17:45	Research speed dating	Room 21

Tuesday
August 29th, 2023

9:00 - 10:30	Raster and vector data cubes in R (part 1) Edzer Pebesma	Room 21
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9:00 - 10:30	Processing geospatial data using JuliaGeo framework (Julia tutorial) (part 1) Maarten Pronk	Room 18
10:30 - 11:00	Coffee break	
11:00 - 12:30	Raster and vector data cubes in R (part 2) Edzer Pebesma	Room 21
11:00 - 12:30	Processing geospatial data using JuliaGeo framework (Julia tutorial) (part 2) Maarten Pronk	Room 18
12:30 - 13:30	Lunch break	
13:30 - 15:00	Unsupervised classification (clustering) of satellite images (part 1) Krzysztof Dyba	Room 21
13:30 - 15:00	Progress in modernizing and replacing infrastructure packages in R-spatial workflows (part 1) Roger Bivand	Room 18

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15:00 - 15:30	Coffee break	
15:30 - 17:00	Unsupervised classification (clustering) of satellite images (part 2) Krzysztof Dyba	Room 21
15:30 - 17:00	Progress in modernizing and replacing infrastructure packages in R-spatial workflows (part 2) Roger Bivand	Room 18
17:00 - 18:30	Hackathon (consultations)	Room 21
17:15 - 19:45	Outdoor excursion: Meteorite site	Morasko Preserve

Wednesday
August 30th, 2023

9:00 - 10:30	Cloud-based analysis of Earth Observation data using openEO Platform, R and Python (part 1) Edzer Pebesma	Room 21
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9:00 - 10:30	Parallelization of geoprocessing workflows in GRASS GIS and Python (part 1) Caitlin Haedrich	Room 18
10:30 - 11:00	Coffee break	
11:00 - 12:30	Cloud-based analysis of Earth Observation data using openEO Platform, R and Python (part 2) Edzer Pebesma	Room 21
11:00 - 12:30	Parallelization of geoprocessing workflows in GRASS GIS and Python (part 2) Caitlin Haedrich	Room 18
12:30 - 13:30	Lunch break	
13:30 - 15:00	Environmental analysis using satellite image time series (part 1) Ewa Grabska-Szwagrzyk	Room 21
13:30 - 15:00	Xcube for spatiotemporal data analysis and visualization (part 1) Alicja Balfanz	Room 18

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15:00 - 15:30	Coffee break	
15:30 - 17:00	Environmental analysis using satellite image time series (part 2) Ewa Grabska-Szwagrzyk	Room 21
15:30 - 17:00	Xcube for spatiotemporal data analysis and visualization (part 2) Alicja Balfanz	Room 18
17:00 - 18:30	Discussion panel: What can R, Python, and Julia development communities do to combat the climate crisis? Anita Graser, Lorena Abad, Tom Hengl, Edzer Pebesma, Maarten Pronk	Room 21

Thursday
August 31st, 2023

9:00 - 10:30	Spatial ML model assessment and interpretation (part 1) Alexander Brenning	Room 21
9:00 - 10:30	Mapping explanation - Python toolchaing for spatial interpretative machine learning (part 1) Jarek Jasiewicz	Room 18

<https://pretalx.earthmonitor.org/opengeohub-summer-school-2023/schedule/>

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Bogumiła Krygowskiego 10, 61-680
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10:30 - 11:00	Coffee break	
11:00 - 12:30	Spatial ML model assessment and interpretation (part 2) Alexander Brenning	Room 21
11:00 - 12:30	Mapping explanation - Python toolchaing for spatial interpretative machine learning (part 2) Jarek Jasiewicz	Room 18
12:30 - 13:30	Lunch break	
13:30 - 15:00	Tools and packages to query and process Sentinel-1 and Sentinel-2 data with R and Python (part 1) Lorena Abad	Room 21
13:30 - 15:00	Data engineering for Mobility Data Science (with Python and DVC) Anita Graser	Room 18
16:00 - 18:00 18:00 - 22:00	Social activity: City Tour game + Happy Hour	Location will be shared by organizers

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Agenda

Friday
September 1st, 2023

Bogumiła Krygowskiego 10, 61-680
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9:00 - 10:30	Tools and packages to query and process Sentinel-1 and Sentinel-2 data with R and Python (part 2) Lorena Abad	Room 21
9:00 - 10:30	Processing large OpenStreetMap datasets for geocomputational research Robin Lovelace	Room 18
10:30 - 11:00	Coffee break	
11:00 - 12:30	Sharing your geospatial knowledge in the open Jakub Nowosad	Room 21
12:30 - 13:30	Lunch break	
13:30 - 15:00	OEMC Hackathons Launch: Land Cover Mapping EU-LUCAS and Global-FAPAR Leandro Parente - Julia Hackländer	Room 21
15:00 - 15:30	Coffee break	
15:30 - 17:00	Summer School Final Session	Room 21

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Agenda

Saturday - Last day of the Summer School
September 2nd, 2023

Bogumiła Krygowskiego 10, 61-680
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9:00-17:00

Half-day excursion in the nature

**Vicinity of
Poznan**