

Geographic Data Science for Sustainability

EC2U Autumn School

Date: 09.10.–13.10.2023
Place: Friedrich Schiller University Jena, Germany
Logistics: “Bring your own laptop” policy



DRAFT PROGRAM:

Before the autumn school:

- Online introductory lecture
- Introduction to R / RStudio

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| 09.10.2023 | <ul style="list-style-type: none">• Using R as a GIS: Handling and visualizing geospatial data in R• Lightning talks by participants• Overview of machine-learning techniques |
| 10.10.2023 | <ul style="list-style-type: none">• Overview of machine-learning techniques (cont'd)• Lab class on modelling landslide susceptibility with ML models in R |
| 11.10.2023 | <ul style="list-style-type: none">• Machine learning model assessment• Hyperparameter tuning• Lab class on modelling housing conditions |
| 12.10.2023 | <ul style="list-style-type: none">• ML model interpretation - lecture & lab class• Introduction to project assignment on modelling environmental pollution |
| 13.10.2023 | <ul style="list-style-type: none">• Field trip |

End of November (date to be determined):

- Follow-up online meeting with student presentations of data analysis projects



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Geographic Information Science

 MichaelStifelCenterJena
for Data-Driven and Simulation Science

