








GIScience-Colloquium

Tuesday 16:15 / Room Y25 H-79

| Date | | Speaker | Title |
|----------------------------------|--|--|---|
| 19.03.2024 | <i>MSc Concept Talk</i>  | Gina Meili UZH GIVA | Szenarien von alternativen Mobilitätsformen als "erste und letzte Meile"-Angebote in der Region Einsiedeln |
| | | Joris Senn UZH GIS | Context-based operator classification for cartographic building generalization: A multimodal deep learning approach |
| | | Antonia Hehli UZH GIS | Small-Scale Spatial Variation in Meerkat Vocalization |
| 26.03.2024 | <i>MSc Concept Talk</i>  | Ella Allemann UZH GIS | Analyzing the Impacts of the City of Zurich's Noise Reduction Plan on Public Transportation |
| | | Annina Ardüser UZH GIS | How do existing routing services respond to the needs of mobility-restricted population groups? |
| | | Chiara Ballinari UZH GIS | Towards Inclusive Urban Mobility: Enriching Pedestrian Paths for a 15-Minutes City |
| 27.03.2024 WED: 16:15 H-79 | <i>MSc Concept Talk</i>  | Tanja Falasca UZH GIS | Spatial and temporal dynamics of the distribution of children with developmental delay in the Canton of Zurich |
| | | Chenxi Jiang UZH GIS | Indoor-outdoor detection with MOASIS data |
| 09.04.2024 |  | Dr Henrikki Tenkanen Assistant Professor Department of Built Environment Geoinformatics <i>Aalto University, Helsinki</i> | Investigating sustainable mobility and urban development with big data and open source tools |
| 16.04.2024 | <i>MSc Concept Talk</i>  | Carola Moos UZH GIVA | The emotional impact of landscape aesthetics in a virtual urban environment |
| | | Zhengfang Xu UZH GIVA | Factors Influencing Map-Checking In Pedestrian Navigation and Checking Points Prediction |
| | | Philipp Sebastian Rohr UZH GCO | Exploring Regional Linguistic Variation in Spanish Tweets |



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| Date | Speaker | Title |
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| 30.04.2024 |  Prof. Dr. Uta Schirpke Professor of Physical Geography and Land-Atmosphere Coupling <i>LMU, Munich, Germany</i> | Modelling of landscape aesthetic values in mountain regions |
| 21.05.2024 |  Prof. Dr. Alexander Klippel Professor of Laboratory of Geoinformation Science and Remote Sensing <i>University & Research Wageningen, The Netherlands</i> | Immersive Digital Twins: Transdisciplinary Perspectives |
| 28.05.2024 |  Dr. Ekaterina Egorova Geographic Citizen Science Researcher, Faculty of Geo- Information Science and Earth Observation (ITC) <i>University of Twente, The Netherlands</i> | Empowering Communities: Unveiling the Potential of Place-Based Citizen Science |



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Speaker

Title

09.04.2024



Dr Henrikki Tenkanen
Assistant Professor
Department of Built Environment
Geoinformatics
Aalto University, Helsinki

Investigating sustainable mobility and urban development with big data and open source tools

Abstract

In this presentation, I will give an overview of our research at the intersection of GIScience, urban analytics and sustainable mobility. I will give particular attention to projects related to:

- (1) quantification of transport related carbon emissions in the Nordics at high spatial and temporal resolutions using big mobility data and computational models; and
- (2) socioeconomic and spatial inequalities in access to opportunities at national level in Finland with high spatial resolution; and
- (3) the interplay between urban planning, consumption and carbon emissions mixing various geospatial data sources and survey data.

At the end, I will discuss some of the advantages and limitations of these tools and models based on interviews conducted with Finnish planners, reflecting on new research avenues for using spatial data science for sustainable and inclusive cities.

Bio

Henrikki Tenkanen is a geographer and Assistant Professor of Geoinformation Technology at Aalto University. At Aalto, he leads the [GIST Lab](#) which is an interdisciplinary research group focusing on harnessing GIScience methods and modelling to better understand and address sustainability challenges. More specifically, the team focuses on big data analytics, spatial accessibility modelling, mobility research and urban planning. Henrikki is enthusiastic about open science and education and has contributed e.g. to the UNESCO's Recommendation on Open Science. He is an author of various [open online courses](#) targeted for geographers, as well as a forthcoming book [Introduction to Python for Geographic Data Analysis](#). Henrikki also actively contributes to Python's geospatial ecosystem by being the maintainer of [pyrosm](#) and [r5py](#) libraries and a contributor to geopandas and OSMnx.

Date: Tuesday, April 9, 2024

Time: 16:15 – 17:30

Room: Y25 H-79



GIScience-Colloquium

Tuesday 16:15 / Room Y25 H-79

Date

Speaker

Title

30.04.2024



Prof. Dr Uta Schirpke

Professor of Physical Geography
and Land-Atmosphere Coupling
LMU, Munich, Germany

Modelling of landscape aesthetic values in
mountain regions

Abstract

Mountain regions are highly appreciated for their appealing landscapes contributing to human well-being in terms of aesthetic and recreational experiences. To maintain such landscapes in the face of increasing global change pressures, spatially explicit information is needed to support landscape management and planning. However, quantifying and mapping landscape aesthetic values remains highly challenging due to their subjectivity. Here, a spatial modelling approach relating landscape characteristics to people's preferences via a regression model is presented. Landscape preferences were gathered through surveys using photo-based questionnaires with panoramic pictures representing major landscape types of the European Alps such as alpine grassland, forest, agriculturally used landscapes, and urbanised landscapes. Landscape indicators were calculated based on geo-data for each photo location accounting for topography and distance to the photo point. This modelling approach allows the estimation of landscape aesthetic values in spatial and qualitative terms for most viewpoints in the European Alps. The model can be applied for analysing impacts of landscape changes on aesthetic landscape values, and the resulting maps can be used as a discussion basis supporting the decision-making process.

Bio

Uta Schirpke is a senior researcher at the Institute for Alpine Environment at Eurac Research in Bozen/Bolzano (Italy). She has a background in physical geography (LMU Munich) and landscape ecology (PhD and habilitation at the University Innsbruck, Austria). She aims at assessing human-nature relationships and interactions focusing on mountain socio-ecological systems. She has strong expertise in modelling ecosystem services, analysing spatial patterns, and assessing the effects of global change on ecosystem services bridging socioeconomic and ecological sciences.

Date: Tuesday, April 30, 2024

Time: 16:15 – 17:30

Room: Y25 H-79



GIScience-Colloquium

Tuesday 16:15 / Room Y25 H-79

Date

Speaker

Title

28.05.2024



Dr Ekaterina Egorova

Geographic Citizen Science
Researcher, Faculty of Geo-
Information Science and Earth
Observation (ITC)
*University of Twente, The
Netherlands*

Empowering Communities: Unveiling the
Potential of Place-Based Citizen Science

Abstract

Geographic citizen science, representing public involvement in scientific projects with an explicit geospatial component, empowers communities to raise and solve local environmental issues ranging from disaster response to noise reduction. With the growing availability of geospatial tools and applications, the amount of such projects is steadily increasing. However, they still do not engage evenly across all sectors of the society, often leaving aside those whose lives could benefit most from such activities. In this talk, I will describe a series of citizen science projects with newly arrived refugee youth. I will outline essential project design considerations, and will detail activities and tools employed, followed by a discussion of scientific outputs and multi-faceted impacts that these projects generated. I will demonstrate that citizen science with this community not only provides valuable insights into the perception and use of urban space by newly arrived refugee youth, but also facilitates, shapes, and mediates participants' relation with place, contributing to their place discovery and place bonding.

Bio

Dr. Ekaterina Egorova holds a PhD in Geographic Information Science from the University of Zurich, Switzerland, where she specialized in operationalization and extraction of spatial concepts from text, such as social media and digitized corpora. Her PhD was followed by an SNSF-funded project where she further explored aspects of spatial cognition and navigation, but also place facets such as affordances and the sense of place through the prism of user-generated content in New Zealand. She currently holds a position of a Geographic Citizen Science Researcher at the Faculty of Geo-Information and Earth Observation (ITC), University of Twente, The Netherlands, where she works in close collaboration with local communities on topics ranging from energy transition to urban green infrastructure and well-being.

Date: May 28, 2024

Time: 16:15 – 17:30

Room: Y25 H-79