GIScience-Colloquium
Tuesday 16:15 / Room Y25 H-79

Date		Speaker	Title
19.03.2024	***MSc Concept Talk***	**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	***MSc Concept Talk***	**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**	***MSc Concept Talk***	**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 *Aalto University, Helsinki*	Investigating sustainable mobility and urban development with big data and open source tools
16.04.2024	***MSc Concept Talk***	**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
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
21.05.2024		**Prof. Dr Alexander Klippel** Professor of Laboratory of Geoinformation Science and Remote Sensing *University & Research Wageningen, The Netherlands*	Immersive Digital Twins: Transdisciplinary Perspectives
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

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Date	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

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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

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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