







GIScience-Colloquium HS 2022
Tuesday 16:15 / Room Y25-H-92

Date	Speaker	Title
27.09.2022	<i>MSc Concept Talk</i>  Patrick Schenker UZH GCO	Reviewing the measurement of urban sprawl
11.10.2022	 Prof. Dr. Alexander Hohl Assistant Professor Department of Geography <i>University of Utah</i>	Space-time clustering of COVID-19: An early career research trajectory during the pandemic
18.10.2022	 Alexandra Georgescu PhD Concept Talk	Spatial Accessibility Modelling for Inclusive Mobility
25.10.2022	 Simon Hirschhofer PhD Concept Talk	The influence of artificial illumination on nocturnal bird migration patterns
22.11.2022	<i>MSc Concept Talk</i>  Michael Förster UZH GIVA	Mapping Public Transport Stations: Development of a concept for spatio-temporal adaption of public transport POIs and implementation of a prototype
	Delia Lendenmann UZH GIVA	Influence of green facades on human emotions using facial expression analysis
	Corinne Burkhard UZH GIVA	Spatiotemporal analysis and visualization of birth weights in Basle from 1912-1920






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Date	Speaker	Title
06.12.2022 09:00 Y25-H-79 	Rocco Bagutti UZH GIS	Reducing air travel at the University of Zurich
	Tao Peng UZH GIS	The association between human mobility and political social, spatial factors in the US
	Adrian Nicolas Grossenbacher UZH GIS	Impact of urban structure on mobility during COVID-19: a polycentricity perspective
06.12.2022 16:15 Y25-H-92 	Corrado Muratori PhD Concept Talk	Sustainable mobility through optimal linking of multimodal solutions
12.12.2022 09:00 Y25-H-26 	Ursin Maurus Beeli UZH GIS	Determining the Breeding Success of Red Kites (Milvus milvus) using GPS Movement Data
	Linus Rüegg UZH GIS	LocID – A Unique Object at a Location Identifier: Designing a hierarchical geographic & geometric identifier that accounts for spatial inaccuracy and computational performance
	Michael Zurmühle UZH GIS	Definition of a geo-prior derived from a hex grided network encoding a cost-surface and implementation into the BEAST software
13.12.2022 09:00 Y25-H-79 	Jan Sigrist UZH GCO	Multifunctionality and accessibility of green spaces in small European cities – developing a comparing environmental indicator considering socio-economic factors
	Leonie Schäfer UZH GCO	Predicting and Characterizing Traffic on Backcountry Ski Routes with User-Generated GPS Data
	Quinten Groenveld UZH GCO	Scenicness model based on British Scenic or Not Dataset for Switzerland as a base to search for wind power plant locations
	Anjing Zhang UZH GCO	A robust model of urban popularity
	Joel Hauser UZH GCO	Geospatial Analysis of Access to Pediatric Practices in Switzerland



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13.12.2022 16:15 Y25-H-92		Changyu Han PhD Concept Talk Detecting and modelling restorative places from daily mobility
19.12.2022 09:00 Y35-F-32	<i>MSc Concept Talk</i> 	Tim Fässler UZH GCO Low-Stress Connectivity and Accessibility; 'Leave no one behind' in the Bicycle Network of the City of Zurich Mingyang Yuan UZH GCO The roles social media play before, during, and after the disaster Leyi Xu GCO Discovering City Perception by Mining Semantic Trajectory Thomas Özvegyi GCO Model for mapping bicycle ridership with crowdsourced data in the Metropolitan Area of Zurich
20.12.2022 16:15 Y25-H-92		Daniela Verónica Mariño Castro PhD Concept Talk Exploring well-being through descriptions of natural landscapes
POSTPONED FS 2023		Prof. Dr. Alison Hepenstall , Professor in Geocomputation School of Geography <i>University of Leeds</i> Simulating social systems with individual-based models: are they worth it?



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11.10.2022



Prof. Dr. Alexander Hohl

Assistant Professor
Department of Geography
University of Utah

[More...](#)

Space-time clustering of COVID-19: An early career research trajectory during the pandemic

Abstract

This talk gives an overview the research efforts carried out by the author and his collaborators during the COVID-19 pandemic: In response to the arrival of the virus in the United States in early 2020, we established a daily tracking program with the goal of finding significant space-time clusters of COVID-19 cases. Such information may guide pandemic response by facilitating decision-making and public health resource allocation. This initial effort has led to a stream of research on the topic, covering issues of disease surveillance, visualization, and prediction. After the first two waves of the pandemic passed, it became apparent that COVID-19 was here to stay, and research efforts shifted towards societal issues associated with the disease. Utilizing the same methods of space-time clustering, we analyzed anti-Asian hate on social media, which had seen an unprecedented rise during early 2020. Our work showcases the contributions of geographers and geographic techniques to pandemic response, while shedding light on the struggles and successes of life as early career researcher.

Bio

Alexander Hohl is an assistant professor at the Department of Geography at the University of Utah. He has received his BS in Geography from the University of Zurich, MA and PhD in Geographic Information Science from the University of North Carolina at Charlotte. His research focuses on computational and statistical aspects of spatiotemporal analysis with application to health geography. Alexander has published his work in peer-reviewed scientific journals, including the American Journal of Public Health, the International Journal of Geographic Information Science, Spatial and Spatiotemporal Epidemiology, and Applied Geography. He currently teaches upper-level classes in GIS, visualization, and spatiotemporal computing.

Date: Tuesday, October 11, 2022

Time: 16:15 – 17:30

Room: Y25 H92