University of Zurich^UZH

digital GIScience-Colloquium
Tuesday 16:15 – 17:30 / ZOOM Meeting
To register for online participation via Zoom, please send Email to admin.giscience@geo.uzh.ch

Date		Speaker	Title
15.09.2020		**Nora Fagerholm, PhD** Department of Geography and Geology *University of Turku Turun yliopisto Finland* More…	Participation, spatial planning and GIS – insights to participatory mapping of landscape values
22.09.2020		*No colloquium*	
29.09.2020		*No colloquium*	
06.10.2020	*MSc Concept Talk*	**Fabienne Christen** UZH GC*	Extracting cultural landscape properties in Switzerland using image and text data
13.10.2020		*No colloquium*	
20.10.2020	*MSc Concept Talk*	**Patricia Schnidrig** UZH GIS*	Modeling spatio-temporal diffusion of complex linguistic structures in social media
		Stefan Graf UZH GIS*	Modelling socio-spatial movement behaviour of orangutans (Pongo abelii)
27.10.2020	*MSc Concept Talk*	**Oliver Eberli** UZH GIS*	Mobility, Activity, and Social Interactions in the Daily Lives of Healthy Older Adults: Relation of Mobility and Environments on various Health Aspects
		Severin Thürig UZH GIS*	Analysis of the Mobility of Healthy Older Adults: Trajectory Sequence Analysis and Detecting Patterns

University of Zurich UZH

digital GIScience-Colloquium
Tuesday 16:15 – 17:30 / ZOOM Meeting
To register for online participation via Zoom, please send Email to admin.giscience@geo.uzh.ch

Date	Speaker	Title
03.11.2020	**Ineke van der Ham, PhD** Social and Behavioral Sciences *Leiden University* *The Netherlands* More…	Human spatial navigation in virtual environments
10.11.2020		*No colloquium*
17.11.2020	**Ana Basiri, PhD** School of Geographical & Earth Sciences *University of Glasgow* *UK* More…	Crowdsourced Geospatial Data Paradox: Learning from Biased but Large Sample
24.11.2020	**Yulin Hswen, ScD** Boston Children's Hospital *Harvard Medical School* *Boston, MA, USA* More…	Monitoring geospatial patterns and temporal trends of patient experience and substance use in the United States using digital big data
01.12.2020 *MSc Concept Talk*	**Saner Matthias** UZH GIVA*	Predicting imminent deviations from a predetermined route using high-resolution tracking data
	Lanz Martin UZH GIVA*	The Effects of Environmental Lighting on Human Emotions

University of Zurich UZH

Date	Speaker	Title
08.12.2020	**Martin Röösli, PhD** Environmental Epidemiology *Swiss Tropical and Public Health Institute* *University of Basel* More…	Cardiovascular mortality in relation to noise, air pollution, and green space - multiexposure environmental modeling
15.12.2020 *MSc Concept Talk*	**Weber Jan** UZH GIVA*	Smartphone Tap Behaviour of Map Applications
	Biland Fabian UZH GC*	The use and perception of landscape from hiking trails in the UNESCO Biosphere Entlebuch
06.01.2021 Wednesday 14:00-15:05 *MSc Concept Talk*	**Specker Martin** UZH GIS*	Gait Analysis of older adults: Filter comparison and geographical context
	Hirschhofer Simon UZH GIS*	The Alps – A real Barrier for Bird Migration?
07.01.2021 Thursday 14:00-15:05 *MSc Concept Talk*	**Wysling Laura** UZH GC*	Where to improve cycling infrastructure? A case study on the city of Paris
	Grüebler Etienne UZH GIVA*	Geospatial analysis of access to health care: Child development needs and available care in the Canton of Zurich

The University of Zurich UZH

digital GIScience-Colloquium
Tuesday 16:15 – 17:30 / ZOOM Meeting
To register for online participation via Zoom, please send Email to admin.giscience@geo.uzh.ch

Date	Speaker	Title
15.09.2020	**Nora Fagerholm, PhD** Department of Geography and Geology *University of Turku* *Turun yliopisto* *Finland* More…	**Participation, spatial planning and GIS – insights to participatory mapping of landscape values**

Abstract

In this presentation, I will outline the development of participatory mapping methods from the opportunities in geospatial technology development and requests to place-based participatory methods and tools in land use planning. I will highlight the heterogeneity in collecting spatially explicit data through participation. I also show examples, from both Global South and North, applying participatory mapping of place-based local knowledge of landscape values and practices aiming to promote sustainable planning and management of multifunctional landscapes.

Bio

Nora Fagerholm is Adjunct professor (Docent) in participatory landscape research at the University of Turku, Department of Geography and Geology. Her research interest links to a holistic understanding about the human-nature interactions in spatial context. Her research has increased understanding about the role of socio-cultural values for transdisciplinary planning and management of sustainable societies. She has specific expertise in applying GIS for participation through public participation GIS (PPGIS)/participatory GIS (PGIS) approaches. Currently, she is an Academy Research Fellow and principal investigator of the Academy of Finland funded research project Wellbeing benefits of urban green infrastructure mapped through participation and 3D virtual landscapes (GreenPlace 2019-24).

Date: Tuesday, September 15 2020
Time: 16:15 – 17:30
Room: Zoom

University of Zurich UZH

digital GIScience-Colloquium
Tuesday 16:15 – 17:30 / ZOOM Meeting
To register for online participation via Zoom, please send Email to admin.giscience@geo.uzh.ch

Date	Speaker	Title
03.11.2020	Ineke van der Ham, PhD Social and Behavioral Sciences *Leiden University* *The Netherlands* More…	**Human spatial navigation in virtual environments**

Abstract

Research on human spatial navigation has benefited tremendously from technological advances in the creation and use of virtual environments. However, there appear to be relevant differences between navigation in the real world and virtual environments, caused by e.g. the absence of locomotion. In this talk, I will discuss recent advances in the assessment of human navigation ability and what differences may arise when testing in real vs virtual environments. Virtual reality also offers the opportunity to manipulate visual input, which can be used to alter human responses according to task demands. Lastly, I will focus on the use of serious gaming exercises within virtual environments and how these can be used to improve navigation performance.

Bio

Ineke van der Ham obtained her Bachelor's degree in clinical psychology at Erasmus University Rotterdam (2004). She continued her studies at Utrecht University where she obtained her Master's degree in cognitive neuroscience (2006). In 2006 she started as a PhD student at the department of experiment psychology at Utrecht University. In 2009 she was a visiting research fellow at Harvard University. In 2010 she finished her dissertation entitled: Thinking left and right, neurocognitive studies on spatial relation processing (cum laude). In 2010-2015 she was employed as an assistant professor neuropsychology at Utrecht university. Since 2015 she has been an associate professor neuropsychology at Leiden University.

Date: Tuesday, November 3 2020
Time: 16:15 – 17:30
Room: Zoom

University of Zurich UZH

digital GIScience-Colloquium
Tuesday 16:15 – 17:30 / ZOOM Meeting
To register for online participation via Zoom, please send Email to admin.giscience@geo.uzh.ch

Date	Speaker	Title
17.11.2020	**Ana Basiri, PhD** School of Geographical & Earth Sciences *University of Glasgow* *UK* More…	**Crowdsourced Geospatial Data Paradox: Learning from Biased but Large Sample**
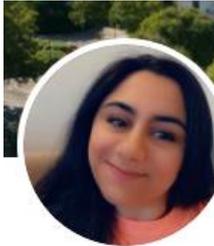
Abstract

This talk will look at the challenges of crowdsourced/self-reporting data, such as missingness and biases in 'new forms of data' and consider them as a useful source of data itself. A few applications and examples of these will be discussed, including extracting the 3D map of cities using the patterns of blockage, reflection, and attenuation of the GPS signals (or other similar signals), that are contributed by the volunteers/crowd. In the era of big data, open data, social media and crowdsourced data when "we are drowning in data", gaps and unavailability, representativeness, and bias issues associated with them may indicate some hidden problems or reasons allowing us to understand the data, society, and cities better.

Bio

Ana Basiri is a Professor in Geospatial Data Science and a UK Research and Innovation Future Leaders Fellow at the University of Glasgow. Ana works on developing (theoretical and applied)solutions that consider gaps, unavailability, and biases in data as a useful source of data to make inference about the underlying reasons that caused missingness or biases.For this, she leads a team of an interdisciplinary team and collaborates with world-leading academic and industrial partners, including Ordnance Survey GB, Uber, Alan Turing Institute, and engage with the public, policymakers and government. Ana is the Editor in Chief of the Journal of Navigation and has received several awards and prizes, including Women Role Model in Science by Alexander Humboldt and European Commission Marie Curie Alumni.

Date: Tuesday, November 17 2020
Time: 16:15 – 17:30
Room: Zoom

::: University of Zurich UZH

digital GIScience-Colloquium
Tuesday 16:15 – 17:30 / ZOOM Meeting
To register for online participation via Zoom, please send Email to admin.giscience@geo.uzh.ch

Date	Speaker	Title
24.11.2020	**Yulin Hswen, ScD** Boston Children's Hospital *Harvard Medical School* *Boston, MA, USA* More…	**Monitoring geospatial patterns and tempora trends of patient experience and substance use in the United States using digital big data**

Abstract

Emerging computational methods and novel digital data sources are changing the landscape of population health research. In this presentation, Dr. Hswen will cover three key objectives spanning the fields of computational epidemiology and population informatics. First, Dr. Hswen will provide an overview of the application of novel computational methods for uncovering patterns of disease and exploring the links between individual behaviors and illness trajectories. Second, Dr. Hswen will demonstrate how digital data can advance our understanding of social determinants of health and further efforts to promote equitable access to quality health care among marginalized patient populations. Last, Dr. Hswen will consider how big data and computational methods can advance our understanding of the impact of social, environmental, and political forces on human health. Across each aim in this presentation, Dr. Hswen will draw from her work to highlight case studies covering topics related to mental health, substance use, infectious disease, health care quality, vaping, and environmental contaminants and health. With access to myriad sources of unconventional digital data, Dr. Hswen will conclude by highlighting why this is now one of the most exciting times in the history of modern medical research as there is potential to understand human health in ways that were previously not possible.

Bio

Yulin Hswen, ScD is an Assistant Professor in the Department of Epidemiology and Biostatistics and at the Bakar Computational Health Sciences Institute, at the University of California, San Francisco and Adjunct Faculty in the Innovation Program at Boston Children's Hospital, Harvard Medical School. Dr. Hswen completed her doctoral training as a social and computational epidemiologist at the Harvard T.H. Chan School of Public Health, where her research focused on leveraging big data to uncover hidden social determinants and patterns of disease. Her current research seeks to develop and test new methods to capture informal online data sources towards generating population health insights that can be used to predict the onset and course of various diseases and public health threats. Dr. Hswen's research involves the design and development of digital surveillance methods, as well as novel tools that can transform public practice and influence health policies.

Date: Tuesday, November 24 2020
Time: 16:15 – 17:30
Room: Zoom

The University of Zurich UZH

digital GIScience-Colloquium
Tuesday 16:15 – 17:30 / ZOOM Meeting
To register for online participation via Zoom, please send Email to admin.giscience@geo.uzh.ch

Date	Speaker	Title

| 08.12.2020 | Martin Röösli, PhD
 Environmental Epidemiology
 Swiss Tropical and Public Health Institute
 University of Basel
 More… | **Cardiovascular mortality in relation to noise, air pollution, and green space - multiexposure environmental modeling** |

Abstract
Although individuals are exposed to multiple environmental exposures, epidemiological research on human health tends to focus on one exposure at a time, ignoring the interrelations of different aspects of the environment. Martin Röösli will present research conducted in the framework of the Swiss National Cohort on various environmental exposures on cardiovascular mortality. This includes nationwide models of air pollutants, transportation noise and green space indicators using geographic information systems. Modelled exposures for each building and/or apartment are then individually linked to the Swiss National Cohort (SNC), which is a longitudinal research platform containing nation-wide mortality and census data from 1990 until 2016. Finally, mutually independent and potentially synergistic associations with acute and long-term cardiovascular mortality are elucidated.

Bio
Martin Röösli is Professor for Environmental Epidemiology and leads the Environmental Exposures and Health Unit at the Swiss Tropical- and Public Health Institute in Basel. He is also co-chair of the Joint South African and Swiss Chair in Global Environmental Health.

His research focuses on various environmental topics including ionizing and non-ionizing radiation, transportation noise, climate change, pesticides, passive smoking and ambient air pollution. He is conducting exposure assessment studies, epidemiological research and health impact assessments. He is member in various national and international commissions and regulatory bodies on environmental health risks. He has published numerous scientific papers, reviews and book chapters, and is also regularly quoted by the media. In 2019, he was among the 30 most noticed Swiss persons as ranked by TA Media.

Date: Tuesday, December 8 2020
Time: 16:15 – 17:30
Room: Zoom