













GIScience-Colloquium
Tuesday 16:15 / Room Y25 H79

Date	Speaker	Title
01.03.2022	 <p>Dr. Verstegen Judith Assistan Professor Department of Environmental Sciences Geo-Information Science and Remote Sensing <i>University of Wageningen</i> More...</p>	Geosimulation and Optimization of Human-Environment Systems
15.03.2022 Zoom	 <p>Prof. McLafferty Sara L. Professor Department of Geography & GIScience, University of Illinois at Urbana-Champaign <i>University of Illinois Urbana Champaign</i> More...</p>	Placing Urban Health Inequalities: Residential Segregation and Birth Outcomes for Black Mothers in New York City
29.03.2022 Zoom	 <p>Dr. Chrastil Liz, PhD Assistant Professor Department of Neurobiology and Behavior School of Biological Sciences <i>UC Irvine</i> More...</p>	Individual differences in navigational learning and memory
05.04.2022 Zoom	 <p>Prof. Nelson Trisalyn Professor Jack and Laura Dangermond Chair c Geography <i>University of California, Santa Barbara</i> More...</p>	Using Crowdsourced data to get more people on bikes
26.04.2022	<p><i>MSc Concept Talk</i></p> 	<p>Beglinger Nicolas UZH GIS*</p> <p>Vector-based Cartographic Generalization c Roads using Graph Convolutional Neural Networks</p>
		<p>Birkhölzer Inga UZH GIVA*</p> <p>Reconstructing the 1855 cholera outbreak in Basel using spatial analysis and visualisation methods</p>
		<p>Luchsinger Patrick UZH GIVA*</p> <p>Geovisualization with Augmented Reality: A Framework</p>



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Date		Speaker	Title
03.05.2022	<i>MSc Concept Talk</i> 	Durband Gabriele UZH GCO*	Partizipative Erfassung der Landschaftsleistungen in der Valposchiavo
		Kreienbühl Aaron UZH GIS*	Der Einfluss demographischer Veränderungen auf die gesprochenen Sprachen
10.05.2022	<i>MSc Concept Talk</i> 	Asper Lino UZH GCO*	Spatial Analysis of 'Züri wie neu', E- participation in Zürich by the city of Zürich
		Wismer Stéphanie UZH GIVA*	The use of GIS at Switzerland's high schools for data visualization and analysis
17.05.2022	<i>MSc Concept Talk</i> 	Winkler Jan UZH GIS*	Exploring Transformer Architecture for Building Generalization in Binary Cartographic Maps
		Tabataba Vakili Marjan UZH GIVA*	Geospatial Analysis of Suicide in Switzerland: Aspects of environmental factors on suicide risks
24.05.2022		Dr. van Gijn Rik Assistant Professor Faculty of Humanities Centre for Linguistics <i>Leiden University</i> More...	Reconstructing aspects of social history in the North-West Amazon: a multi-disciplinary approach
31.05.2022		Zingaro Donatella PhD Concept	Modelling geographic relevance in the digital era



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Date		Speaker	Title
12.07.2022	<i>MSc Concept Talk</i> 	Marti Sebastian UZH GIVA*	Prototype development of adaptive POI visualization in swisstopo app
		Schär Eric UZH GCO*	Perception of Wilderness in Swiss Parks by French and German speaking Switzerland
19.07.2022	<i>MSc Concept Talk</i> 	Hannes, Geneviève Bénédicte F. E. UZH GiS*	GIS – Language diversity patterns in South America
		Caduff Silvan UZH GIS/GIVA*	Visualizing Language Ranges for a Web Atlas



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Speaker

Title

01.03.2022



Dr. Judith Verstegen

Assistan Professor
Department of Environmental
Sciences
Geo-Information Science and
Remote Sensing
University of Wageningen
[More...](#)

Geosimulation and Optimization of Human-
Environment Systems

Abstract

This talk focuses on two main methods. The first is geosimulation modelling, in which domain knowledge about a system is captured in a computational model to better understand the system and make projections about its future configuration. The second is spatial optimization, which aims to find theoretically optimal spatial configurations given a number of objectives. In contrast to geosimulation, spatial optimization leaves us with question how we can guide the system towards the found configurations, which is why the two methods a nicely complementary. Examples in the talk will include land use and urban systems.

Bio

Dr. Judtih Verstegen is an Assistant Professor at the Laboratory of Geo-Information Science and Remote Sensing since 2021. Her research interests are geosimulation models (agent-based models, cellular automata), spatial statistics, error propagation methods, and spatial optimization. She mainly focus on models of land use change and urban dynamics. The main aim of my research is to better quantify the uncertainty in geosimulation and spatial optimization models.

Dr. Judith Verstegen a member of the editorial board of [Computers & Geosciences](#), and the former head (until 2020) of the [Geosimulation Modelling lab](#) at the University of Münster, Germany.


Date: Tuesday, March 1, 2022

Time: 16:15 – 17:30

Room: Y25 H79



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Date	Speaker	Title
15.03.2022 Zoom		<p>Prof. Sara L. McLafferty Professor Department of Geography & GIScience, University of Illinois at Urbana-Champaign <i>University of Illinois Urbana Champaign</i> More...</p> <p>Placing Urban Health Inequalities: Residential Segregation and Birth Outcomes for Black Mothers in New York City</p>

Abstract

In the U.S., racial residential segregation is a defining feature of urban neighborhoods; yet the impacts on health are poorly understood, particularly for racialized immigrants who may benefit from living among co-ethnics while also experiencing the negative effects of racial segregation. We investigate these associations for immigrant and U.S.-born Black mothers and infants in New York City using a large, multi-year vital statistics dataset. Multiple local spatial segregation measures are computed, and neighborhood socioeconomic and environmental quality indicators are considered. Results suggest complex associations that reflect adverse and beneficial effects of living in neighborhoods characterized by differing combinations of racial and ethnic segregation.

Bio

Prof. Sara L. McLafferty is a professor Emerita at Department of Geography & Geographic Information Science of the University of Illinois Urbana-Champaign. She is a fellow with the American Association of Geographers and received the Melinda Meade Distinguished Scholarship Award in 2015 amongst other awards. She edited eight books and published over 60 articles in international peer-reviewed journals. Her current research investigates place-based inequalities in health and well-being and access to health services for women, immigrants and racial/ethnic minorities in the United States. She also examines the impacts of increasing economic inequality and residential segregation on women's commuting times and modes and on maternal and infant health outcomes. Sara also used and developed GIS and spatial analysis methods for examining health and social issues in cities and planning public health interventions. Currently she serves as an Associate Editor of Health and Place and on the editorial boards of Geographical Analysis, and Spatial and Spatiotemporal Epidemiology.


Date: Tuesday, March 15, 2022

Time: 16:15 – 17:30

Room: Zoom-Meeting



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Date	Speaker	Title
29.03.2022 Zoom	 Dr. Liz Chrastil, PhD Assistant Professor Department of Neurobiology and Behavior School of Biological Sciences <i>UC Irvine</i> More...	Individual differences in navigational learning and memory

Abstract

Navigation is a central part of daily life. For some, getting around is easy, while others struggle. My research uses the complementary approaches of immersive virtual reality and neuroimaging to inform questions about how we acquire and use spatial knowledge. In this talk, I will discuss both some of my recent work and upcoming experiments that center on three main themes: 1) how we learn new environments, 2) how individuals differ in their spatial abilities (including differences across ages and sexes), and 3) how we choose our routes once we have learned an environment. More broadly, I will discuss how navigation lends insight into processes of human learning and memory as we try to understand what makes each person unique and how the best navigators learn about their world.

Bio

Dr. Elizabeth Chrastil is an Assistant Professor in the Department of Neurobiology & Behavior at UC Irvine and is a fellow of the Center for the Neurobiology of Learning & Memory. Dr. Chrastil received her PhD from Brown University and did her postdoctoral work at Boston University. She also received an MS in biology from Tufts University and a BA from Washington University in St. Louis.


Date: Tuesday, March 29, 2022

Time: 16:15 – 17:30

Room: Zoom-Meeting



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Date	Speaker	Title
12.04.2022 Zoom	 Prof. Trisalyn Nelson Professor Jack and Laura Dangermond Chair of Geography <i>University of California, Santa Barbara</i> More...	Using Crowdsourced data to get more people on bikes

Abstract

Decision makers tasked with supporting pro-bicycling policies often lack the data they need to determine where and how to make investments. Crowdsourced data are helping fill that gap. In this research presentation, Dr. Nelson will talk about how her team is collecting, correcting, and analyzing data from BikeMaps.org, Strava, and Open Street Maps to improve data for sustainable urban planning.

Bio

Prof. Trisalyn Nelson joined the Department of Geography at UCSB as Jack and Laura Dangermond Endowed Chair of Geography in 2020. From 2016-2020 she was Director of the School of Geographical Sciences and Urban Planning at Arizona State University. Prior, she was the Lansdowne Research Professor and Director of the Spatial Pattern Analysis and Research Lab at the University of Victoria, Canada. Her current research focuses on active transportation, and the use of big data and analytics to better plan cities.

Date: Tuesday, April 5, 2022

Time: 16:15 – 17:30

Room: Zoom-Meeting



GIScience-Colloquium
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Date	Speaker	Title
24.05.2022		<p>Dr. Rik van Gijn Assistant Professor Faculty of Humanities Centre for Linguistics <i>Leiden University</i> More...</p> <p>Reconstructing aspects of social history in the North-West Amazon: a multi-disciplinary approach</p>

Abstract

Although the debate is still ongoing, converging lines of evidence from several disciplines (paleogeology, population genetics, archaeology) suggest that the Americas were first populated by a small group of people that crossed the Bering Strait some 15,000 to 20,000 years ago. Linguists have struggled to reconcile this recent settlement with the unexpectedly large number of linguistic lineages present in the Americas, which would have had little time to develop. The scenario most consistent with the data from other disciplines is an unusually fast rate of diversification in the initial phase of settlement, possibly because of relatively isolated developments of different groups that settled in their ecological niches. However, competing hypotheses can be put forward about why patches of this diversity persist to the present day, despite a number of major agricultural expansions (and even despite mass extinction following the European arrival). One hypothesis says that these patches are simply relatively isolated left-overs of the initial diversity that have not yet been annexed by the expanding families, while the other says that conscious identity maintenance, rooted in a system of interaction where identity markers are essential, is the driver behind the persisting diversity. Focusing on the North-West Amazon, one of the genealogically most diverse areas in South America, I will contrast these two hypotheses, bringing to bear evidence from geography, linguistics, genetics, and cultural anthropology

Bio

Dr. Rik van Gijn is assistant professor at the Leiden Centre for Linguistics. His interests focus on the indigenous languages of (western) South America, and in particular on the question of the historical development of the stunning linguistic diversity there. Currently, he focuses on these questions in the context of his ERC-Consolidator project South American Population History Revisited (SAPPHIRE).

Date: Tuesday, May 24, 2022

Time: 16:15 – 17:30

Room: Y25 H79