



**15<sup>th</sup>** DECEMBER 2022  
11:00 to 15:30 (CET)

Health Geography: Building a digital space for emerging researchers

## Guidelines & Programme Schedule for the Participants

The online symposium will have nine parallel sessions across diverse and related themes, including:

**Health Geography / One Health / Climate Change and Health / Environment and Health**

**Urban Health / Infectious Diseases and Health Geography / Gender and Health**

**Migration and Health / Traditional Complementary Medicine**

### Welcome!

The COVID-19 pandemic is perhaps a painful reminder of the importance of health and wellness and its relationship with our geographical spaces. Hence, Health Geography has become a powerful field contributing to a better understanding of health and its assemblages.

Emerging researchers are often faced with numerous challenges in sharing their knowledge and research skills. With the continued growth of virtualization and digitalization in knowledge dissemination, this virtual space of knowledge exchange has emerged to bridge this gap. The 1st Annual Health Geography Symposium aims to create a free digital hub for PhD fellows and emerging researchers globally to help young researchers find their voice and contribute to the knowledge base in Health Geography.

Everyone is welcome. Feel free to share, listen to colleagues from other countries and continents, and plug into this new revolution. In this space, we encourage curiosity. So, ask those bugging questions!

Online Link: <https://maastrichtuniversity.zoom.us/j/93900916407?pwd=ZktuekxrMDF1Vm52S2FWTDdHQ0hMdz09>

Meeting ID: 939 0091 6407 / Password: 727096 - **Join the symposium 10 minutes before the start.**

Social Media: Twitter @HGS2022 @IGUhealthgeo or #HGS2022

### Guidelines for presenters:

- Each presenter has 5 minutes for their presentation, followed by a 3-minute question and answers/comments session.
- Presenters (1<sup>st</sup> Author only) are encouraged to use their presentation time wisely as no extra time can be provided. It is imperative to respect the established time to guarantee a smooth operation during the symposium. Each session will have a chair to coordinate the session and a senior scientist to facilitate the discussions.
- Details of the presentations should include a **problem statement, research methodology, study findings/results/implications, and conclusion.**



- The organizers collected all presentations before the symposium and compiled them into one PDF to guarantee a smooth transition between the presentations.
- Certificates will be provided to oral presenters and poster submissions after the symposium. This will be sent to your designated email address.
- We would like to ask you to fill in the feedback forms provided at the end of the symposium. The idea is to run the symposium yearly, and we would like to learn from your experience to improve the event further.
- Should you have any questions, do not hesitate to contact us at [iguiche2022@gmail.com](mailto:iguiche2022@gmail.com)

We look forward to seeing you all soon!

## Programme schedule

Time	Opening Session	
11:00 - 11:25		
	Eva Pilot & Helen Gurgel IGU Commission on Health and the Environment	Welcome address and remarks on behalf of International Geographical Union (IGU) Commission on Health and the Environment
	Charles Egwuba	Introduction to the Conference
11.30 - 12:30	Session 1	
	Parallel Session 1: <b>Access to Healthcare I</b>  Chairs: Alexandra Cioclu and Narendra Kumar  Discussant: Ronan Foley <i>Maynooth University, Ireland</i>	<p><b>“Somewhere old, somewhere new, somewhere green”: An exploration of health enabling places from the perspective of people ageing-in-place in Ireland during COVID-19</b> <i>Viveka Guzman, Royal College of Surgeons in Ireland - Ireland</i></p> <p><b>Traditional Complementary Medicine in Brazil: Distribution and Use of Alternative Therapies in Unequal Territories</b> <i>Mariana Andreotti Dias, Getulio Vargas Foundation - Brazil</i></p> <p><b>Cross-border health in Global South: an approach from Northern Brazil</b> <i>Adriana Dennise Rodriguez, University of Brasilia - Brazil</i></p>
	Parallel Session 2: <b>Gender and Maternity Health</b>  Chairs: Nayara Belle and Shahnaz Basheer  Discussant: Sarah Lovel <i>University of Canterbury, New Zealand</i>	<p><b>Continuity of care: An analysis of care providers’ outlook on women’s experiences of unplanned/emergency caesarean section within the New Zealand maternity system</b> <i>Dr Charles Egwuba, Massey University - New Zealand</i></p> <p><b>The Reproductive Health Status of Muslim Women and its Challenges: A Case of North 24 Pargana District, West Bengal, India</b> <i>MST Tania Parveen, University of North Bengal - India</i></p> <p><b>Genealogy Tells: Informing Health and Aging Policies using East Tennessean Older Women’s Family Histories, Perceptions, and Experiences of Health Inequity</b> <i>Heather Davis, University of Tennessee, United States of America</i></p>



		<p><b>Association between geographical natural hazard and postnatal care utilization for new-born babies in India: A step towards full coverage using a spatial approach</b>  <i>Papai Barman, International Institute for Population science - India</i></p>
	<p>Parallel Session 3:  <b>Geographic analysis of health conditions</b></p> <p>Chairs: Asrafal Alam and Sara Lopes de Moraes</p> <p>Discussant:          Sabrina Li  <i>University of Nottingham, UK</i></p>	<p><b>Geographies of under five Malnutrition in Kano State, Nigeria</b>  <i>Faiza Sheshe, Bayero University Kano - Nigeria</i></p> <p><b>Spatio-temporal modelling of the five most prevalent cancers in Iran</b>  <i>Sharareh Faramarzi, Mashhad University of Medical Sciences - Iran</i></p> <p><b>Risk factor variations of US county-level cancer mortality, a geographic random forest approach</b>  <i>Weichuan Dong, Case Western Reserve University - United States of America</i></p> <p><b>Prevention and control of leprosy in microregion Garças/Araguaia</b>  <i>Romário de Sousa, CUA - UFMT - Brazil</i></p> <p><b>Cardiovascular disease morbidity and mortality: a geographical-based state-of-art review</b>  <i>João Pedro Marques-Reis, University of Lisbon – Portugal</i></p>
12:30 - 12:40	Tea Break	
12:40 - 13:40	Session 2	
	<p>Parallel Session 4:  <b>Urban Health and Climate Change</b></p> <p>Chair: Charles Egwuba</p> <p>Discussant:          Sebastien Fleuret  <i>University Angers, France</i></p>	<p><b>Spatio-temporal analysis of urban growth and impact of green space on human health; a geospatial study</b>  <i>Najib Ansari, Aliah University - India</i></p> <p><b>The influence of population density in the access to urban green spaces in the city of Lisbon as a potential contribution to a healthier city</b>  <i>Ricardo Latoeiro, University of Lisbon - Portugal</i></p> <p><b>Assessment of thermal comfort conditions as a factor influencing health problems</b>  <i>Tiago Silva, IGOT/CEG - Portugal</i></p> <p><b>Heat vulnerability and its impact on public health in urban and peri-urban area</b>  <i>Nasir Ahammad, Central University of Tamil Nadu - India</i></p> <p><b>The Urban Heat Island impacts on mortality during a specific heatwave event in São Paulo, SP, Brazil</b>  <i>Sara Lopes de Moraes, University of São Paulo - Brazil</i></p>
	<p>Parallel Session 5:  <b>Mental Health</b></p>	<p><b>Education in relation to population dynamics and health, with a special focus on Kolkata as a district of West Bengal</b>  <i>Mili Basak, Aliah University -India</i></p>



	Chairs: Shahnaz Basheer and Adriana Dennise Rodriguez	<b>Access to blue-green spaces and mental health: A case of NCT Delhi</b> <i>Priyanka JHA, Jamia Millia Islamia (A Central University) - India</i>
	Discussant: Dumitrache Liliana <i>Bucharest University, Rumania</i>	<b>School well-being after the Covid- 19 Pandemic: intervention in the Francisco Miguel Gomes Municipal School, in Magalhães Barata</b> <i>Carolina Silva da Silva, Universidade Federal do Pará - Brazil</i>
		<b>ACS: Mapping of the professional profile in the identification of situations of risk to COVID-19</b> <i>Xisto Serafim de Santana Souza Júnior, Universidade Federal de Campina Grande – Brazil</i>
	Parallel Session 6: <b>Infectious Diseases and Health Geography</b>	<b>Dengue Diffusion in Espirito Santo - first appointments</b> <i>Rafael Catão, Federal University of Espirito Santo – Brazil</i>
	Chairs: Adriana Dennise Rodriguez and Nayara Belle	<b>Spatio-temporal analysis of seasonal Influenza-Like Illness: a nationwide study in Iran from 2015 to 2019</b> <i>Atieh Sedghian, Mashhad University of Medical Sciences -Iran</i>
	Discussant: Ricardo Almendra & Claudia Costa <i>Coimbra University, Portugal</i>	<b>Hot spot clustering of hospitalized patients with a PCR-confirmed influenza assay in Iran, 2016-2018</b> <i>Shahab MohammadEbrahimi, Mashhad University of Medical Sciences - Iran</i>
	<b>A susceptibility index to COVID-19 infection in Portugal for geographical pandemic management</b> <i>André Alves, IGOT-UL -Portugal</i>	
	<b>Towards a malaria-free world for children: Geographic patterns of paediatric malaria transmission in Nigeria (2008-2018)</b> <i>Tolulope Osayomi, University of Ibadan - Nigeria</i>	
13:40 - 13:50	Tea Break	
13:50 - 14:50	Session 3	
	Parallel Session 7: <b>Access to Healthcare II</b>	<b>Primary healthcare accessibility in the rural area of Western Development Region of Romania</b> <i>Cristian Cazacu, University of Bucharest – Romania</i>
	Chairs: Narendra Kumar and Nayara Belle	<b>Analysis of Public Health Services in Rural and Intermediate Cities of Pernambuco, Brazil</b> <i>José Roberto Henrique Souza Soares, Universidade Federal de Pernambuco, Brazil</i>
	Discussant: Susan Elliot <i>University of Waterloo, Canada</i>	<b>Measuring spatial accessibility to hospitals in Southeast Iran</b> <i>Ahmad Raeesi, Mashhad University of Medical Sciences - Iran</i>
		<b>The impacts of geographical distance, altitude difference and socio-economic status on utilisation of MCH services in Rudraprayag District</b> <i>Shweta Singh, HNB Garhwal (A Central) University – India</i>





		<p><b>Comparing the population coverage of catchment area using two methods in 2SFCA method on province/state scale in access to hospital</b>  <i>Ahmad Raeesi, Mashhad University of Medical Sciences - Iran</i></p>
	<p>Parallel Session 8:  <b>Environment and Health</b>          Chair: Sara Lopes Moraes</p>	<p><b>Perception of malaria burden in irrigated and non irrigated farming communities of Garun Malam LGA. Kano State, Nigeria</b>  <i>Jamila Garba Abdullahi, Bayero University, Kano - Nigeria</i></p>
	<p>Discussant:          Adriaan Van Der Walt  <i>University of the Free State, South Africa</i></p>	<p><b>Incorporating Geographic Context in Population Health Interventions: Case Study of Arsenic Mitigation Interventions for Drinking-water in Rural Bangladesh</b>  <i>Varun Goel, University of Carolina Chapel Hill - United States of America</i></p>
		<p><b>Physical access to municipal organic fairs in favelas of Belo Horizonte, Minas Gerais</b>  <i>Luana Rocha, Federal University of Minas Gerais - Brazil</i></p>
		<p><b>Health Implication of Dam in Some Parts of Tafa Local Government Area of Niger State, Nigeria</b>  <i>Abdulmuakhhir Bala Ishaq, Federal University of Technology Minna, Niger State - Nigeria</i></p>
		<p><b>Effects of air pollution on population health: Geostatistical evidence from Pakistan</b>  <i>Munazza Fatima, The Islamia University of Bahawalpur - Pakistan</i></p>
	<p>Parallel Session 9:  <b>Health Geography</b>          Chairs: Mariana Andreotti Dias and Asrafal Alam</p>	<p><b>Incorporating Geographic Context in Population Health Interventions: Case Study of Arsenic Mitigation Interventions for Drinking-water in Rural Bangladesh</b>  <i>Varun Goel, University of Carolina Chapel Hill - United States of America</i></p>
	<p>Discussant:          Pilkington Hugo  <i>University Paris, France</i></p>	<p><b>Socio-Economic Status and Health condition among the E-Rickshaw puller drivers: A Case Study</b>  <i>Dr MD Areful Hoque, St. Xavier's College – India</i></p>
		<p><b>Health Implication of Dam in Some Parts of Tafa Local Government Area of Niger State, Nigeria</b>  <i>Abdulmuakhhir Bala Ishaq, Federal University of Technology Minna, Niger State - Nigeria</i></p>
15:00 15:30	<p>Closing Remarks by          Eva Pilot &amp; Helen Gurgel          IGU Commission on Health and the Environment</p>	



**POSTER LIST**

**MENTAL HEALTH**

<b>TITLE</b>	<b>AUTHOR</b>
Child Abuse impacts on mental health	Harshika Singh, C. J. M. University - India
Prevalence of mental & emotional health issues during COVID-19 lockdown: study at ward number: 122, KMC WB	Satyajit Bhattacharjee, Sarsuna College - India
Mental Health with reference to spatial context	Anindita Dey, Indian Institute of Technology, Jodhpur - India
Longitudinal associations of neighbourhood environmental exposures with externalising and internalising problems throughout adolescence: Findings from the TRAILS study	Yi Zeng, Utrecht University - The Netherlands

**ENVIRONMENT AND HEALTH**

<b>TITLE</b>	<b>AUTHOR</b>
Mapping of various vegetable crops in forest environment using hyperspectral image	Aarti Kumari - India
Vitória's mangrove: Ecosystem services and health benefits.	Rafael Aguilar Zamudio, Universidade Federal do Espírito Santo - Brazil
Environmental Justice and Urban Renewal: The limits of multiple burden maps	David Spenger, Friedrich-Alexander-Universität Erlangen-Nürnberg - Germany
COVID-19 syndemic: from global to local - health challenges in the environment of small cities in the Amazon, Brazil	Viviana Mendes Lima, UNIVAP - Brazil
An assessment of land potential analysis and impacts of Parandur airport in the village, Kanchipuram District	Priyanka N, Research scholar - India
Epidemiological characteristic of dengue and its patients perception: micro level study	Saravanabavan Vaithialingam, Assistant Professor - India
Analysis of GreenHouse Gas (GHG) Emissions in north Africa from 1990 to 2018	Mounia Tahri, National Center for Nuclear Energy, Sciences and Technology (CNESTEN) - Morocco
Impact caused by the COVID-19 pandemic on the generation of waste from health units in the municipality of Rebouças-PR	Jensen Paula Regina, UNICENTRO - Brazil
A mixed method study on the impacts of the flooding on physical health in Bongaigon District, Assam	Girimallika Borah, Cotton University - India



<b>CLIMATE CHANGE AND HEALTH</b>	
<b>TITLE</b>	<b>AUTHOR</b>
Climate change: an alarm for the future	Prachi Verma, CSJM University Kanpur (U.P) - India
Rescue our millet, save our climate	Deeksha Sahu, Csjm University Kanpur, Uttar Pradesh - India
<b>URBAN HEALTH</b>	
<b>TITLE</b>	<b>AUTHOR</b>
Climate change and urban flooding in Kolkata metropolitan region: vulnerability, health hazard affordable resilient measures	Sudip Dey, Asutosh College - India
Neighborhood-related mental health and space: The value of theoretical-conceptual sensitivity	Tom Meyer, Ruhr-University Bochum - Germany
Checking traffic signs-based google street view for road traffic accident on urban road intersection of Thailand	Yaowaret Jantakat, Rajamangala Uneristy of Technology Isan - Thailand
Poverty and inequality at the intra-urban scale in Vitória: the multiple layers of socio-spatial exclusion	Flora Ribeiro, Universidade Federal do Espirito Santo - Brazil
Do changes in cycling infrastructure, green space and tree canopy contribute to reducing social inequities?	Behzad Kiani, Department of Public Health, University of Montreal - Canada
Investigating the Effect of Urban Traffic Condition on Road Accident and Air Pollution with Sentinel-1 SAR imagery using Google Earth Engine	Pongpun Juntakut, Lecturer of the Chulachomklao Royal Military Academy - Thailand
<b>GENDER AND MATERNITY HEALTH</b>	
<b>TITLE</b>	<b>AUTHOR</b>
Gender and Child Malnutrition in Kano State	Faiza Sheshe, Bayero University Kano - Nigeria
Gender-related differences in physical activity of medical university students	Viktoriiya Yasenok, University of Zurich - Switzerland
Effect of women's migration on urban children's health in India	Arti Bajpai, Csjmu Kanpur - India
<b>INFECTUOUS DISEASES AND HEALTH</b>	
<b>TITLE</b>	<b>AUTHOR</b>
Geospatial analysis dengue risk zone in Dindigul District using analytical hierarchy process	Vimal Raj, Bharathidasan University - India
Dengue Diffusion in Espirito Santo - first appointments	Rafael Catao, Federal University of Espirito Santo - Brazil

# 1<sup>st</sup> Annual online Health Geography Symposium for PhD and Emerging Researchers



1st Annual Online  
Health Geography  
Symposium 2022

The Social Determinants of COVID-19: a look at social and health vulnerabilities in Presidente Prudente and Botucatu - São Paulo.	João Pedro Lima, Sao Paulo State University - Brazil
A descriptive study of post COVID-19 global health	Devashish Shukla - India
Global geographical distribution of mortality due to COVID-19	Ajay Kumar, Amity University Haryana - India.
Prevalence of water-borne disease in Doaba region of Punjab in India: A spatio-temporal analysis of Diarrhoea	Sajad Nabi Dar, Lovely Professional University - India
Spatio-temporal dynamic patterns of cutaneous leishmaniasis: A nationwide study in Iran from 2011 to 2020	Neda Firouraghi, Mashhad University of Medical Sciences - Iran
Socioeconomic drivers influence canine insecticide collars and protection against canine visceral leishmaniasis in low and high-income areas?	Patricia Matsumoto, Adolfo Lutz Institute, São Paulo - Brazil
Building and selecting specialized spatial-temporal AI Models for predicting dengue disease in Brazil	Raphael Saldanha, Inria - France
<b>ACCESS TO HEALTHCARE</b>	
<b>TITLE</b>	<b>AUTHOR</b>
Healthcare centres and population density in Kasaragod district	Sudha P., Mangalore University - India
Territory and vulnerability: The dimensioning of the workforce in primary health care in Vitória - Espírito Santo.	Júlio César Moraes, Universidade Federal do Espírito Santo - Brazil
Analysis of healthcare infrastructure in Himachal Pradesh	Shamaila Fatima, Indian Institute of Technology - India
GIS approach on health care system and patients perception of primary health care centers - a geo-medical study	Vinothini Chelladurai, Research assistant - India
Spatial inequalities in the availability and accessibility of healthcare services in the southeastern region of Romania	Alina Caloian, Faculty of Geography - Romania
Health regulations and geographic distribution in the manufacture of herbal medicines in Brazil	Marta Castro, Pontifícia Universidade Católica do Rio de Janeiro - Brazil
Social services of general interest, a factor in mortality values? A vision from the European regions	Pedro Franco, CEG/IGOT-ULISBOA - Portugal
<b>HEALTH CONDITIONS</b>	
<b>TITLE</b>	<b>AUTHOR</b>
Demography of aging and degenerative diseases among older adults in Imo State, Nigeria from 2012 to 2021	Ifeanyi Oduaro, Imo State University - Nigeria
The spatial dimension of lung cancer cases in Europe in relation to the percentage of smokers.	Ioan Adrian Toma, University of Bucharest - Romania





Describing participation in everyday activities outside the home for adults with obesity: a proposed focused ethnography using geospatial methods	Pam Hung, Faculty of Rehabilitation Medicine, University of Alberta - Canada
Overweight and food environment: a multilevel analysis in a Brazilian Metropolitan Region	Nathalia Barbosa de Aquino, Federal University of Pernambuco - Brazil
Decomposing SC-ST differences in nutritional status (BMI) among reproductive-aged women (15-49) in West Bengal	Sourav Biswas, International Institute for Population Sciences - India
Migration and child health and nutrition in India: Evidence from a large-scale cross-sectional survey	Prem Mishra Shankar, Institute for Social and Economic Change - India
Incidence of silicosis in Espírito Santo, Brazil	Roberta Guio Azevedo, Universidade Federal do Espírito Santo - Brazil

**ORGANIZING COMMITTEE:**

- Alexandra Cioclu - University of Bucharest, Romania
- Asrafal Alam - University of Calcutta, India
- Charles Egwuba - Massey University, New Zealand
- Dennise Rodríguez - University of Brasília, Brazil
- Eva Pilot - IGU CHE, Maastricht University, The Netherlands
- Mariana Andreotti Dias - Getulio Vargas Foundation, Brazil
- Narendra Kumar - CSJM University, India
- Nayara Belle - University of Brasília, Brazil
- Sara Lopes de Moraes - University of Sao Paulo, Brazil
- Shahnaz Basheer - Central University of Tamil Nadu, India

**SCIENTIFIC COMMITTEE:**

- Adriaan Van Der Walt - University of the Free State, South Africa
- Claudia Costa - Coimbra University, Portugal
- Dumitrache Liliana - Bucharest University, Romania
- Eva Pilot - IGU CHE, Maastricht University, The Netherlands
- Pilkington Hugo - University Paris, France
- Ricardo Almendra - IGU CHE, Coimbra University, Portugal

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Ronan Foley - Maynooth University, Ireland

Sabrina Li - University of Nottingham, United Kingdom

Sarah Lovell - University of Canterbury, New Zealand

Sebastien Fleuret - University Angers, France

Susan Elliott - University of Waterloo, Canada

***This symposium aims to create a warm and safe digital environment for emerging researchers in Health Geography. Each of our research paths has been different. We hope this symposium will help you gain more international experience and exposure!***

***Much success for everyone!***