

Information

Enrolment is open for

Professionals and researchers from both developed and developing countries with backgrounds in demography, geography, climatology, economics, epidemiology, statistics, public health and other relevant subjects.

Aim

The course focuses on spatial analysis and statistical modelling in the context of urban health in megacities of developing countries. Topics covered in the seminar are focusing on health and the environment in megacities, such as burden of disease, socio-ecological health determinants, as well as climate change. The aim is to combine theoretical and lab work on statistical analysis and spatial-epidemiological modelling techniques in a transdisciplinary approach.

Teaching methods

The course contains introductory lectures, computer classes, individual consultation and assignments. Teaching language is English.

Tuition

The tuition of enrolment for the International Summer School is 500/270 Euro. Postgraduate or doctoral students including the participants from developing countries pay the lower fee. The tuition includes instruction, course materials, and the use of computer centre facilities.

Application

The number of participants is restricted to 30 persons. You are encouraged to bindingly apply as soon as possible including payment of the tuition fee.

Location

University of Bielefeld
School of Public Health
P.O. Box 10 01 31, Universitätsstr. 25
D-33501 Bielefeld, Germany

Contact

Programme Directors

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Application form and further information:

<http://www.uni-bielefeld.de/gesundhw/ag2/summerschoolmc/>



Spatial-epidemiological modelling in Megacities

Statistical and spatial analysis for urban health under a changing climate

4th International Summer School



September 3-7, 2012

University of Bielefeld

The "International Summer School 2012" is an advanced training course of the Institute for Innovation Transfer at the University of Bielefeld GmbH (IIT) in cooperation with the Faculty of Health Sciences, University of Bielefeld.

Academic Advisor: Prof. Dr. Alexander Krämer
Supervisory Board: Prof. Dr. h.c. Helmut Steiner (Chairman)

Managing Director: Dipl.-Soz. Ludwig Pleus
Company Registry HRB 35308, Amtsgericht Bielefeld,
VAT-Id. DE 176 214836

Objectives

The International Summer School Programme "Spatial-epidemiological modelling in Megacities: Statistical and spatial analysis for urban health under a changing climate" is combined with the well-established course on infectious disease epidemiology (IDE) to improve the knowledge about geo-statistical and epidemiological methods for controlling the predominant health problems of the 21st century.

The course focuses on various dimensions of environment and health in megacities, such as megacity development, diseases' burden, health determinants as well as climate change. The aim is to combine theoretical and lab work on statistical/epidemiological and geospatial analysis and modelling techniques in a transdisciplinary approach.

Our participants will be enabled

- to understand the multidisciplinary of health problems in megacities of developing countries
- to approach concepts of population projection, epidemiological and demographical transitions
- to apply statistical techniques (i.e. multivariate regression analysis) which are commonly used in health sciences
- to apply geospatial techniques (i.e. geoprocessing, spatial auto-correlation analysis, and mapping) which are commonly used in geography
- to apply spatial-epidemiological modeling techniques (multivariate regression models that control for spatial dependencies in the data) which are commonly used in studies on health and the environment (spatial epidemiology, health geography)
- to work more effectively in collaboration with other disciplines for investigating multidisciplinary problems
- to develop sustainable strategies for the improvement of living conditions in megacities

Certificate

All participants who successfully complete the programme will be awarded a certificate issued by the Department of Geography, Humboldt University, Berlin and the Department of Public Health Medicine, the School of Public Health, University of Bielefeld, to be used for further qualification in the relevant fields. In addition a certificate for 3 ECTS points is issued on demand.

Programme

- Megacities: concepts, development, driving forces and prospects
- Megacities: challenges, emerging diseases, epidemiological transitions
- Epidemiological methods, bias and confounding
- Climate impact and other environmental stressors in megacities
- Satellite data to assess the urban environment
- Geographic Information Systems (GIS) and geospatial analyses in megacities
- Statistical, geo-statistical and spatial-epidemiological modelling
- Modelling the health impact of a changing environment

Announcement

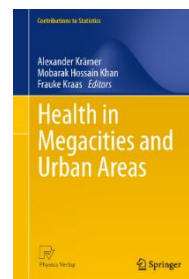
Please note that the International Summer School

Infectious Disease Epidemiology: Concepts, Methods, Mathematical Models, and Public Health

September 3-7, 2012

<http://www.uni-bielefeld.de/qesundhw/aq2/summerschoolide/>

will be offered in parallel as an alternative.



Health in Megacities and Urban Areas

Krämer, A; Khan, MH; Kraas, F (eds.)
Springer, 2011, 280 p.
ISBN 978-3-7908-2732-3

List of lecturers

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