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about mining spatial

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spatio-temporal data in  
R What is

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Modelling spread of

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spatial statistics. The  
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answering  
epidemiological  
questions where spatial  
and spatio-temporal  
approaches are  
appropriate. The  
methods should help to  
advance our  
understanding of  
infectious and non-  
infectious diseases in  
humans.

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29 (2019) 163 – 175 to  
detect geographic  
clusters of dengue

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infection. Dengue is an infectious disease that is currently a major concern for public health officials, particularly in developing coun-

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Journal covering spatial  
and spatiotemporal  
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## -ResearchGate

Omitting superscript,  
 $\theta$  is the model constant  
term,  $S_{str}$  is the  
structured spatial  
random effect,  $S_{unstr}$  is  
the unstructured  
random effect,  $T$  is the  
temporal term and  $ST$   
accounts for the spatio-  
temporal random effect.  
The structured  
component assumes a  
spatial correlation

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among the countries such that neighbouring countries are assumed to have more influence on one another than those far apart while the unstructured component assumes the countries are independent of one another.

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and Development (Q1),  
Health, Toxicology and  
Mutagenesis (Q2),  
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economic effects on  
malaria morbidity in  
children under 5years in  
Malawi in 2012, Spatial  
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Epidemiology, 10.1016/  
j.sste.2015.11.001, 16,  
(21-33), (2016).

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models for mapping the  
incidence of ...

Spatio-temporal  
distribution abstract

This study aimed to determine whether variations in the incidence of reported cases of human brucellosis in Ecuador were clustered in space and time. In addition, the effects of cattle and small ruminant

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population density and other socio-economic factors on the incidence were investigated.

## Spatial and Spatio-temporal Epidemiology

In fl uenza-like illness  
The United States  
Centers for Disease  
Control and Pre-  
vention (CDC) reports  
spatio-temporal  
in fl uenza data, on a

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weekly basis, in the percentage of total physician visits that are due to influenza-like illness (ILI).

### Spatial and Spatio-temporal Epidemiology

He is also an advisor in disease mapping and risk assessment for the World Health Organization, the founding editor of the

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Journal Spatial and Spatio-Temporal Epidemiology, and the author of eight books, including the highly regarded Chapman & Hall/CRC book Bayesian Disease Mapping: Hierarchical Modeling in Spatial Epidemiology, Second Edition. He has published more than 150 journal articles on



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Spatial epidemiology,  
spatial statistics, and  
related areas.

## Epidemiology

Handbook of Spatial  
Epidemiology - 1st  
Edition - Andrew B...

in research examining  
the spatial and temporal  
distribu-tion of diseases  
in veterinary  
epidemiology. A study  
by Ward et al. (1996)  
found clustering of

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bluetongue virus serotypes among cattle herds in Queensland, Australia using the Cuzick and Edward ' s test. Research using retro-spective space – time clustering techniques in the investiga-

Spatial and Spatio-temporal Epidemiology  
Spatial data can analyze

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on many levels, zip codes, census tract, state, geocode, etc.

Temporal data is often analyzed as multiple data points per observation over time and can be measured by just as many ways as the spatial data, if not more. One can also look at events by year, month, minute, second, but this must also be linked to

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## Spatiotemporal Analysis | Columbia Public Health

Each spatio-temporal density estimate requires a separate smoothing bandwidth for the spatial and the temporal margins of the data. As in the purely spatial setting, it is recommended to choose

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the same values of these bandwidths between the case and control estimates.

Progressively more and more attention has been paid to how location affects health outcomes. The area of disease mapping focusses on these problems, and the Bayesian paradigm has

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a major role to play in the understanding of the complex interplay of context and individual predisposition in such studies of disease. Using R for Bayesian Spatial and Spatio-Temporal Health Modeling provides a major resource for those interested in applying Bayesian methodology in small area health data

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Studies. Features:

Review of R graphics  
relevant to spatial health  
data Overview of

Bayesian methods and  
Bayesian hierarchical  
modeling as applied to  
spatial data Bayesian

Computation and  
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of basic Bayesian disease  
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MCMC and INLA

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Special topics include  
multivariate models,  
survival analysis, missing  
data, measurement  
error, variable selection,  
individual event  
modeling, and infectious  
disease modeling  
Software for fitting  
models based on BRugs,  
Nimble, CARBayes and  
INLA Provides code  
relevant to fitting all  
examples throughout



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the book at a  
supplementary website  
The book fills a void in  
the literature and  
available software,  
providing a crucial link  
for students and  
professionals alike to  
engage in the analysis of  
spatial and spatio-  
temporal health data  
from a Bayesian  
perspective using R.  
The book emphasizes

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the use of MCMC via  
Nimble, BRugs, and  
CARBAyes, but also  
includes INLA for  
comparative purposes.  
In addition, a wide  
range of packages useful  
in the analysis of geo-  
referenced spatial data  
are employed and code  
is provided. It will likely  
become a key reference  
for researchers and  
students from

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Temporal  
Epidemiology  
biostatistics,  
epidemiology, public  
health, and  
environmental science.

Teaches Students How  
to Perform Spatio-  
Temporal Analyses  
within Epidemiological  
Studies Spatio-  
Temporal Methods in  
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Specifically address the interface between environmental epidemiology and spatio-temporal modeling. In response to the growing need for collaboration between statisticians and environmental epidemiologists, the book links recent developments in spatio-temporal methodology with epidemiological

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applications. Drawing on real-life problems, it provides the necessary tools to exploit advances in methodology when assessing the health risks associated with environmental hazards.

The book 's clear guidelines enable the implementation of the methodology and estimation of risks in practice. Designed for

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graduate students in both epidemiology and statistics, the text covers a wide range of topics, from an introduction to epidemiological principles and the foundations of spatio-temporal modeling to new research directions. It describes traditional and Bayesian approaches and presents the theory of spatial,

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temporal, and spatio-temporal modeling in the context of its application to environmental epidemiology. The text includes practical examples together with embedded R code, details of specific R packages, and the use of other software, such as WinBUGS/OpenBUGS and integrated nested

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Laplace approximations (INLA). A supplementary website provides additional code, data, examples, exercises, lab projects, and more. Representing a major new direction in environmental epidemiology, this book—in full color throughout—underscores the increasing need to consider dependencies



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in both space and time when modeling epidemiological data. Students will learn how to identify and model patterns in spatio-temporal data as well as exploit dependencies over space and time to reduce bias and inefficiency.

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many new Bayesian tools and methods have been developed for space-time data analysis, the predictive modeling of health outcomes, and other spatial biostatistical areas.

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an up-to-date, cohesive account of the full range of Bayesian disease mapping methods and applications. In addition to the new material, the book also covers more conventional areas such as relative risk estimation, clustering, spatial survival analysis, and longitudinal analysis. After an introduction to Bayesian

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inference, computation,  
and model assessment,  
the text focuses on  
important themes,  
including disease map  
reconstruction, cluster  
detection, regression  
and ecological analysis,  
putative hazard  
modeling, analysis of  
multiple scales and  
multiple diseases, spatial  
survival and  
longitudinal studies,

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spatiotemporal methods, and map surveillance. It shows how Bayesian disease mapping can yield significant insights into georeferenced health data. The target audience for this text is public health specialists, epidemiologists, and biostatisticians who need to work with georeferenced health data.

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Spatial and Spatio-  
Temporal Bayesian  
Models with R-INLA  
provides a much  
needed, practically  
oriented & innovative  
presentation of the  
combination of  
Bayesian methodology  
and spatial statistics.  
The authors combine  
an introduction to  
Bayesian theory and  
methodology with a

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focus on the spatial and spatio-temporal models used within the Bayesian framework and a series of practical examples which allow the reader to link the statistical theory presented to real data problems. The numerous examples from the fields of epidemiology, biostatistics and social science all are coded in

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the R package R-INLA,  
which has proven to be a  
valid alternative to the  
commonly used Markov  
Chain Monte Carlo  
simulations

Handbook of Spatial  
Epidemiology explains  
how to model  
epidemiological  
problems and improve  
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geographical  
perspective. Top  
epidemiologists,  
geographers, and  
statisticians share  
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viewpoints on analyzing  
spatial data and  
space – time variations  
in disease incidences.  
These analyses can  
provide important  
information that leads to  
better decision making

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in public health. The first part of the book addresses general issues related to epidemiology, GIS, environmental studies, clustering, and ecological analysis. The second part presents basic statistical methods used in spatial epidemiology, including fundamental likelihood principles, Bayesian methods, and testing

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and nonparametric approaches. With a focus on special methods, the third part describes geostatistical models, splines, quantile regression, focused clustering, mixtures, multivariate methods, and much more. The final part examines special problems and application areas, such as residential history

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analysis, segregation, health services research, health surveys, infectious disease, veterinary topics, and health surveillance and clustering. Spatial epidemiology, also known as disease mapping, studies the geographical or spatial distribution of health outcomes. This handbook offers a wide-

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ranging overview of  
state-of-the-art  
approaches to  
determine the  
relationships between  
health and various risk  
factors, empowering  
researchers and policy  
makers to tackle public  
health problems.

Although the spatial  
dimension of ecosystem  
dynamics is now widely

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recognized, the specific mechanisms behind species patterning in space are still poorly understood and the corresponding theoretical framework is underdeveloped. Going beyond the classical Turing scenario of pattern formation,

## Spatiotemporal Patterns in Ecology and Epidemiology:

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Geospatial health data are essential to inform public health and policy.

These data can be used to quantify disease burden, understand geographic and temporal patterns, identify risk factors, and measure inequalities.

Geospatial Health Data:  
Modeling and  
Visualization with R-

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INLA and Shiny  
describes spatial and  
spatio-temporal  
statistical methods and  
visualization techniques  
to analyze  
georeferenced health  
data in R. The book  
covers the following  
topics: Manipulate and  
transform point, areal,  
and raster data,  
Bayesian hierarchical  
models for disease



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mapping using areal and geostatistical data, Fit and interpret spatial and spatio-temporal models with the Integrated Nested Laplace Approximations (INLA) and the Stochastic Partial Differential Equation (SPDE) approaches, Create interactive and static visualizations such as disease maps and time

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plots, Reproducible R  
-Markdown reports,  
interactive dashboards,  
and Shiny web  
applications that  
facilitate the  
communication of  
insights to collaborators  
and policy makers. The  
book features fully  
reproducible examples  
of several disease and  
environmental  
applications using real-

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world data such as malaria in The Gambia, cancer in Scotland and USA, and air pollution in Spain. Examples in the book focus on health applications, but the approaches covered are also applicable to other fields that use georeferenced data including epidemiology, ecology, demography or criminology. The book

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provides clear descriptions of the R code for data importing, manipulation, modeling and visualization, as well as the interpretation of the results. This ensures contents are fully reproducible and accessible for students, researchers and practitioners.

Containing method

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descriptions and step-by-step procedures, the Spatial Epidemiological Approaches in Disease Mapping and Analysis equips readers with skills to prepare health-related data in the proper format, process these data using relevant functions and software, and display the results as mapped or statistical summaries. Describing

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the wide range of available methods and key GIS concepts for spatial epidemiology, this book illustrates the utilities of the software using real-world data.

Additional topics include geographic data models, address matching, geostatistical analysis, universal kriging, point pattern analysis, kernel density,

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spatio-temporal display,  
and disease surveillance.

Temporal  
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Localization is involved everywhere in epidemiology: health phenomena often involve spatial relationships among individuals and risk factors related to geography and environment.

Therefore, the use of

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Localization in the analysis and comprehension of health phenomena is essential. This book describes the objectives, principles, methods and tools of spatial analysis and geographic information systems applied to the field of health, and more specifically to the study of the spatial



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distribution of disease  
and  
health – environment  
relationships. It is a  
practical introduction to  
spatial and spatio-  
temporal analysis for  
epidemiology and health  
geography, and takes an  
educational approach  
illustrated with real-  
world examples.

Epidemiology and  
Geography presents a

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complete and straightforward overview of the use of spatial analysis in epidemiology for students, public health professionals, epidemiologists, health geographers and specialists in health – environment studies.

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Introduction to Bayesian inference, computation, and model assessment, the text focuses on important themes, including disease map reconstruction, cluster detection, regression and ecological analysis, putative hazard modeling, analysis of multiple scales and multiple diseases, spatial survival and

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longitudinal studies, spatiotemporal methods, and map surveillance. It shows how Bayesian disease mapping can yield significant insights into georeferenced health data. The target audience for this text is public health specialists, epidemiologists, and biostatisticians who need to work with georeferenced health data.

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