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# Spatial Epidemiology Methods And Applications

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understand basic concepts in spatial data, methods, and GIS terminology and methods used in spatial epidemiology; search and process spatial and health data available from library, government, and other open resources. conduct exploratory spatial data analysis for disease mapping using ArcGIS, GeoDa, and R. employ spatial modeling approaches to inform/generate policy recommendations for disease control and prevention;

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 The second part presents basic statistical methods used in spatial epidemiology, including fundamental likelihood principles, Bayesian methods, and testing 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.

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