# Home

Peter is a lecturer/researcher in Geospatial Data Science in the Geo-Information Processing Department at ITC in the University of Twente. He holds a PhD in Physical Geography and MSc in Geographical Information Sciences from The University of Manchester and is a two-time recipient of the IPCC scholarships.

Peter’s research and educational activities focus on the domains of geoinformatics, spatial data science, geo-visualisation (dissemination and communication). He has applied his expertise to undertake research on: Urban ecology; Sustainability; Low-cost sensor technology; and biodiversity. He has published some of this research (open access) and is and ardent reviewer for renown journals in his application speciality areas. Peter is keen to engage with stakeholders and work in multi-disciplinary teams for policy relevant and impact research.

# Research

Peter’s expertise in the domains of environmental and quantitative geography have enabled him to undertake research

Urban ecology

Sustainability

Low-cost sensor

Biodiversity

on urban climate, vegetation dynamics in cities, The main pillars of Peter’s research include (i) urbanisation -climate, green infrastructure (ii) landscape dynamics –land productivity and food security (iii) low cost sensor technologies (iv) biodiversity research and conservation Some of the key applications include: Urban climate (Urban Heat Island & Urban Dry Island Effect); Urban ecology with a focus on Vegetation dynamics (e.g., seasonal characteristics); Low-cost sensors (feasibility for urban climate research); and biodiversity research and conservation. He is a two time recipient of the IPCC scholarships.

Peter has extensively applied his expertise in geospatial data science (spatiotemporal analytics and data visualization) and GIS technologies (Earth Observations and Sensors)

                            to research undertakings in the domains of environmental and quantitative geography.

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My work centres on applying and developing methods to understand the multiple values (including in monetary and non-monetary terms, as well as metrics of ecological 'quality') of ecosystems and natural environments. I am particularly interested in how these values might be linked both to biodiversity and underlying ecosystem properties, as well as to human health, well-being and life chances.

Prior to starting my current lectureship at the Sustainability Research Institute at the University of Leeds I held a Marie Curie Intra-European Fellowship (2011-2013) TREUEVALUE - TRans-national EUropean Ecosystem VALUEs of grasslands was based at the Department of Food and Resource Economics (IFRO) and the Center for Macroecology, Climate and Evolution (CMEC) at the University of Copenhagen. Between 2006 and 2011, I was a postdoctoral researcher at the University of Sheffield. Initially I worked on the Rural Economy and Land Use (RELU) project “A Landscape-Scale Analysis of the Sustainability of the Hill Farming Economy on Upland Landscapes and Biodiversity”. From 2009, my focus shifted to the EPSRC-funded Sustainable Urban Environments project “UrbanRivers and Sustainable Living Agendas”. Both represented quite a shift from my NERC-CASE funded PhD “Understanding Migration Patterns of the Red-Billed Quelea in Southern Africa”, which centred on using molecular ecology and behavioural techniques and was based at the University of Edinburgh. Recently I have picked up my interest in the red-billed quelea, but now with a focus on their role as crop pests.