

# **Dr Lucy Bastin**

**Reader, Computer Science at Aston University**

Birmingham, , GB

Dr. Bastin specializes in spatio-temporal environmental analysis and semantic interoperability for data, models & metadata

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## **Biography**

Dr Bastin is Reader in Computer Science and an expert in spatio-temporal analysis for a range of environmental and conservation contexts. She has 30 years' research expertise in remote sensing, GIS, land-use/land-cover change analysis and field survey design, including web-based validation tools for forestry monitoring experts. Her research includes interdisciplinary collaborations with microbiologists, traffic planners, conservationists, economists, energy companies and town planners. She currently leads the pilot studies work package in the Horizon project 'All Data for Green Deal', which will co-create and shape the European Green Deal Data Space, delivering FAIR (findable, accessible, interoperable and reusable) data and analysis services to support the European Commission in decisions and actions on biodiversity, climate change and air pollution. As Lead Developer for the European Commission's Digital Observatory for Protected Areas (DOPA)(<https://dopa.jrc.ec.europa.eu/dopa/>) she coordinated a team of developers processing heterogeneous environmental datasets (e.g. satellite products, species models, citizen science data and in situ field observations) to generate robust indicators and transparent, accessible reports that support decision making around conservation and nature-based solutions. DOPA was used by the Convention on Biological Diversity to develop 196 country data dossiers identifying focussed actions for the implementation of Aichi targets 11 and 12.

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## **Areas of Expertise**

Data Analytics, Software Engineering, Engineering, Applied Sciences

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## **Affiliations**

Fellow of the Higher Education Academy

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## **Education**

**University of Birmingham**

PhD Spatial Urban Ecology

**University of Leicester**

MSc Geographical Information Science

**University of Nottingham**

BSc Zoology

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## Accomplishments

Finalist, Women in Tech Award  
2021

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