PROJECT NUMBER

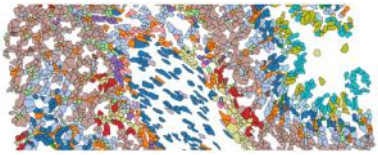
21795

MuSpAn – Multiscale Spatial Analysis Toolbox

MuSpAn is a multiscale spatial analysis toolbox designed by mathematicians to empower biologists to analyse complex high-dimensional imaging data.

Applications: Spatial Data Analysis, Biological Imaging Data, Spatial Omics

Multiscale Spatial Analysis



Features	Benefits
A Python package for comprehensive multiscale spatial analysis of biological imaging data	Our platform agnostic approach can be applied to spatial data, including spatial transcriptomics and proteomics, across biological length scales
A collection of cutting edge mathematical and statistical approaches, from fields including topology, networks, spatial statistics, and more	Using multiple complementary approaches enables quantitative and interpretable analysis of all aspects of spatial data
Supported by comprehensive user-friendly tutorials and documentation	Easy to use by non-mathematicians, with a growing codebase supported by an active team of developers
A computational framework which standardises data from any imaging modality, tissue type, or pre-processing pipeline into a common versatile format	Different spatial analysis methods can be seamlessly applied to any dataset

Features	Benefits
	Ideal for both interactive data exploration and bespoke high throughput pipeline development

Available for

- Co-development
- Consulting
- Licensing

To find out more, contact enquiries@innovation.ox.ac.uk and quote the project number.

The above information is provided ‘as is’ without conditions or warranties. Oxford University Innovation makes no representation and gives no warranty that it is the owner of the intellectual property rights in the technology described. © Oxford University Innovation Ltd 2026, Buxton Court, 3 West Way, Oxford, OX2 0JB.