**Decoding (urban) form and function using spatially explicit deep learning**

**Martin FLEISCHMANN\***

Department of Social Geography and Regional Development, Charles University

Albertov 2038/6, Praha 2, 128 00, Czechia

[martin.fleischmann@natur.cuni.cz](mailto:martin.fleischmann@natur.cuni.cz)  
+420 774 627 733

\*Corresponding author

**Daniel ARRIBAS-BEL**

The Alan Turing Institute, British Library, 96 Euston Road, London, England, NW1 2DB, United Kingdom

Geographic Data Science Lab, Department of Geography and Planning, University of Liverpool

[D.Arribas-Bel@liverpool.ac.uk](mailto:D.Arribas-Bel@liverpool.ac.uk)

**Acknowledgements**

The authors kindly acknowledge funding by the UK’s Economic and Social Research Council through the project “Learning an urban grammar from satellite data through AI”, project reference ES/T005238/1.

Authors declare no conflict of interests.