

# Martin Fleischmann

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citations: 483 (WoS)

h-index: 10

## EDUCATION

- Ph.D.     Architecture, University of Strathclyde, Glasgow, 2021  
*The Urban Atlas: Methodological Foundation of a Morphometric Taxonomy of Urban Form*
- MSc.     Urban Design, University of Strathclyde, Glasgow, 2017  
*Measuring Urban Form: A Systematisation of Attributes for Quantitative Urban Morphology*

## ACADEMIC APPOINTMENTS

- 2024–     Charles University in Prague  
Research Associate, Department of Social Geography and Regional Development
- 2023-24   The Alan Turing Institute  
Postdoctoral Research Associate
- 2022-23   Charles University in Prague  
Postdoctoral Researcher, Department of Social Geography and Regional Development
- 2020–22   University of Liverpool  
Research Associate, Department of Geography and Planning

## SELECTED PUBLICATIONS

- 2025     Araldi, A., Fleischmann, M., Fusco, G. and Novotný, M., ‘Streetscape morphometrics: Expanding momepy to analyze urban form from the street point of view’ *Software X* 31, 102242  
doi:10.1016/j.softx.2025.102242
- 2024     Fleischmann, M. and Arribas-Bel, D., ‘Decoding (urban) form and function using spatially explicit deep learning’ *Computers, Environment and Urban Systems* 112, 102147  
doi:10.1016/j.compenvurbsys.2024.102147
- 2024     Fleischmann, M., and Vybornova, A., ‘A shape-based heuristic for the detection of urban block artifacts in street networks’ *Journal of Spatial Information Science* 28.  
doi:10.5311/JOSIS.2024.28.319
- 2023     Fleischmann, M. ‘Clustergram: Visualization and diagnostics for cluster analysis’. *Journal of Open Source Software* 8 (89), 5240. doi:10.21105/joss.05240
- 2023     Wang, J., Fleischmann, M., Venerandi, A., Romice, O., Kuffer, M., and Porta, S. ‘EO + Morphometrics: Understanding cities through urban morphology at large scale’ *Landscape and Urban Planning*, 233. doi:10.1016/j.landurbplan.2023.104691
- 2022     Arribas-Bel, D. and Fleischmann, M. ‘Spatial Signatures: Understanding (urban) spaces through form and function’ *Habitat International*, 128, (102641).  
doi:10.1016/j.habitatint.2022.102641

- 2022 Fleischmann, M. and Arribas-Bel, D. 'Geographical characterisation of British urban form and function using the spatial signatures framework' *Scientific Data*, 9, (546). doi:10.1038/s41597-022-01640-8
- 2022 Singleton, A., Arribas-Bel, D., Murray, J., and Fleischmann, M. 'Estimating generalized measures of local neighbourhood context from multispectral satellite images using a convolutional neural network.' *Computers, Environment and Urban Systems*, 95, 101802. doi:10.1016/j.compenvurbsys.2022.101802
- 2021 Fleischmann, M., Feliciotti, A., Romice, O. and Porta, S. 'Methodological Foundation of a Numerical Taxonomy of Urban Form.' *Environment and Planning B: Urban Analytics and City Science* 49 (4), 1283-1299. doi:10.1177/23998083211059835
- 2021 Fleischmann, M., Feliciotti, A. and Kerr, W. 'Evolution of urban patterns: urban morphology as an open reproducible data science.' *Geographical Analysis* 54 (3). doi:10.1111/gean.12302

## RESEARCH INCOME

- 2024 *European Space Agency* 'EuroFab: European Urban Fabric Classification Using Artificial Intelligence', €250,000
- 2023 *Primus Research Programme, Charles University* 'Influence of Socioeconomic and Cultural Factors on Urban Structure in Central Europe', €325,000
- 2018 *University of Strathclyde* 'John Anderson Research Award', £60,000

## INVITED TALKS AND KEYNOTES

- 2025 'Open by Default' University College London, UK. Online. May 16.
- 2025 'Urban science as a software' University of California, Berkeley. USA. Online. April 15.
- 2024 'From a building to a region: Scalable morphology with urban morphometrics' International Seminar on Urban Morpho-Science. Nanjing, China. Oct 26
- 2024 'The emergent structure of cities' 4th UrbanMetaMapping conference 'City Transition'. Saarbrücken, Germany. Sep 12.
- 2023 'Open by Default' Oak Ridge National Laboratory, Oak Ridge. USA. Online. June 7.
- 2023 'Open by Default' University of California, Santa Barbara. USA. Online. June 2.
- 2023 'The emergent structure of urban form and function' Space Syntax Lab Seminars, UCL, London. Online. May 18.
- 2023 'Urban morphology drawn and seen' NEtwoRks, Data, and Society. IT University of Copenhagen. Denmark. Online. Apr 26.
- 2021 'Capturing the structure of cities with data science.' Spatial Data Science Conference 2021. Online. Oct 26.
- 2021 'Spatial Signatures: Dynamic classification of the built environment.' Spatial Analytics and Data seminar series by University of Newcastle and University of Bristol. Online. Mar 30.