

# Martin Fleischmann

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## 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*
- BSc.     Architecture and Urbanism, Czech Technical University, Prague, 2015

## ACADEMIC APPOINTMENTS

- 2020–     University of Liverpool  
            Postdoctoral Researcher, Department of Geography and Planning

## PUBLICATIONS

### Journal Articles

- 2021     Fleischmann, M., Feliciotti, A. and Kerr, W. 'Evolution of urban patterns: urban morphology as an open reproducible data science.' *Geographical Analysis* (in press). doi:10.1111/gean.12302
- 2020     Dal Cin, F., Fleischmann, M., Romice, O. and Costa, J.P. 'Climate Adaptation Plans in the Context of Coastal Settlements: The Case of Portugal.' *Sustainability* 12 (20). doi:10.3390/su12208559
- 2020     Fleischmann, M., Romice, O. and Porta, S. 'Measuring urban form: overcoming terminological inconsistencies for a quantitative and comprehensive morphologic analysis of cities.' *Environment and Planning B: Urban Analytics and City Science* published online ahead of print. doi:10.1177/2399808320910444
- 2020     Fleischmann, M., Feliciotti, A., Romice, O. and Porta, S. 'Morphological tessellation as a way of partitioning space: Improving consistency in urban morphology at the plot scale' *Computers, Environment and Urban Systems* 80, 101441. doi:10.1016/j.compenvurbsys.2019.101441
- 2019     Fleischmann, M. 'momepy: Urban Morphology Measuring Toolkit' *Journal of Open Source Software* 4 (43), 1807. doi:10.21105/joss.01807

### Manuscripts under Review

- 2021     Fleischmann, M., Feliciotti, A., Romice, O. and Porta, S. 'Methodological Foundation of a Numerical Taxonomy of Urban Form.' Under review.

## RESEARCH SOFTWARE DEVELOPMENT

- 2018– momepy: Urban Morphology Measuring Toolkit (author and maintainer)
- 2019– GeoPandas: an open source project to make working with geospatial data in python easier (core developer)
- 2020– PySAL: Python Spatial Analysis Library (core developer)
- 2020– clustergram: visualization and diagnostics for cluster analysis (author and maintainer)

## INVITED TALKS

- 2021 ‘Spatial Signatures: Dynamic classification of the built environment.’ Spatial Analytics and Data seminar series. Online. Mar 30.
- 2020 ‘Reading cities as numbers. Where data science meets urbanism.’ Academy of Urbanism (Scotland). Online. Dec 3.

## CONFERENCE ACTIVITY

### Conferences Organized

- 2021 ‘XXVIII International Seminar on Urban Form’ Urban Form and the Sustainable Prosperous City. Glasgow (virtually), UK. Jun 29 – Jul 3.

### Conference Papers Presented

Presenting author *italicized* if other than first author.

- 2021 Fleischmann, M. and Arribas-Bel, D. ‘Classifying urban form at a national scale: The case of Great Britain’ XXVIII International Seminar on Urban Form: Urban Form and the Sustainable Prosperous City. Glasgow/Virtual. Jun 29 – Jul 3.
- 2021 Venerandi, A., *Feliciotti, A.*, Fleischmann, M., Kourtiti, K., Romice, O., Nijkamp, P., Porta, S. and Fusco, G. ‘Urban form and Airbnb: a study of their spatial relation in Amsterdam (NL)’ XXVIII International Seminar on Urban Form: Urban Form and the Sustainable Prosperous City. Glasgow/Virtual. Jun 29 – Jul 3.
- 2021 Porta, S., *Venerandi, A.*, Feliciotti, A., Fleischmann, M. and Romice, O. ‘A Numerical Taxonomy of Urban Form in London: an Urban Morphometric Approach’ XXVIII International Seminar on Urban Form: Urban Form and the Sustainable Prosperous City. Glasgow/Virtual. Jun 29 – Jul 3.
- 2021 Wang, J., Fleischmann, M., Venerandi, A., Kuffer, M. and Porta, S. ‘Earth Observation + Morphometrics: towards a systematic understanding of cities in challenging contexts’ XXVIII International Seminar on Urban Form: Urban Form and the Sustainable Prosperous City. Glasgow/Virtual. Jun 29 – Jul 3.
- 2020 Fleischmann, M. ‘On the morphological composition of cities and how to measure it.’ GeoPython. Virtual. Sep 21–22.
- 2020 Fleischmann, M., Romice, O. and Porta, S. ‘The Urban Atlas: Towards a Morphometric Taxonomy of Urban Form’ XXVII International Seminar on Urban Form: Cities in the 21st Century. Salt Lake City/Virtual. Sep 1–4.

- 2020 Hořák, D., Fleischmann, M., Romice, O. and Porta, S. 'Just like a bird. A community ecology perspective on urban form evolution' XXVII International Seminar on Urban Form: Cities in the 21st Century. Salt Lake City/Virtual. Sep 1–4.
- 2020 Feliciotti, A., Fleischmann, M., Romice, O., Kerr, W. and Porta, S. 'Morphological Resilience Evaluation (MoRE): a new assessment framework for multi-level assessment of urban form resilience' XXVII International Seminar on Urban Form: Cities in the 21st Century. Salt Lake City/Virtual. Sep 1–4.
- 2020 Dal Cin, F., Fleischmann, M., Romice, O. and Costa, J.P. 'DECODING SEASHORE STREETS: urban morphometrics as a tool for adaptation measures' XXVII International Seminar on Urban Form: Cities in the 21st Century. Salt Lake City/Virtual. Sep 1–4.
- 2020 Fleischmann, M., Dal Cin, F., Romice, O. and Barreiros Proença, S. 'Understanding seashore streets: urban morphometrics as a tool for climate-induced risk assessment' ISUF Italy International Conference: Urban Substrata and City Regeneration. Rome Feb 19–22.
- 2019 Feliciotti, A., Fleischmann, M., Romice, O., and Porta, S. 'Morphological Resilience: from a theory of resilient urban forms to the tools for its implementation' 12th CITTA International Conference on Planning Research: Spatial Planning for Change. Porto. Sep 19–20.
- 2019 Fleischmann, M., Romice, O. and Porta, S. 'Applicability of morphological tessellation and its topological derivatives in the quantitative analysis of urban form' XXVI International Seminar on Urban Form: Cities as Assemblages. Nicosia. Jul 2–6.
- 2020 Fleischmann, M., Hořák, D., Porta, S. et al. 'Ecological and evolutionary perspectives in urban morphology' Ecology and Evolution of Urban Areas, CEE Symposium. London. Jun 13.

## SERVICE

### Academic Journal Peer Review

*Environment and Planning B: Urban Analytics and City Science*

*Geographical Analysis*

*Journal of Open Source Software*

*Journal of Statistical Software*

*Plos ONE*

*Urban Morphology*

### Academic Press Peer Review

*CRC Press*

## CONSULTING

2019–20 Institute for Planning and Development, Prague, Czechia

2020 Places Platform, US

## MEMBERSHIPS

2021– Royal Geographical Society (Fellow)

2018– Academy of Urbanism (Young Urbanist)

Updated July 2021