

Martin Fleischmann

Geographic Data Science Lab
Department of Geography and Planning
School of Environmental Sciences
University of Liverpool

m.fleischmann@liverpool.ac.uk
+44 (0) 7482 082 147
martinflfleischmann.net

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)
- 2019– GeoPandas (core developer)
- 2020– PySAL (core developer)
- 2020– clustergram (author)

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., Kourtit, 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

Updated July 2021