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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
 "Learning an urban grammar from satellite data through AI."
 Economic and Social Research Council & Alan Turing Institute

PUBLICATIONS

Journal Articles

- 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* accepted 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*. 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/sui2208559
- 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* 48 (8), 2133-2150. 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. and Arribas-Bel, D. 'Geographical Characterisation of British Urban Form and Function using the Spatial Signatures Framework' Under review.
- 2021 Arribas-Bel, D. and Fleischmann, M. 'Spatial Signatures: Understanding (urban) spaces through form and function' Under review.

Reports and Other publications

- 2021 Fleischmann, M. 'Policy Brief: Flexibilita prostorového uspořádání města' (Flexibility of the spatial configuration of the city) *Územně analytické podklady hl. m. Prahy*. Institute for Planning and Development, Prague, Czechia
- 2021 Darlington-Pollock, F., Arribas-Bel, D., Fleischman, M., Newsham, N., Rowe, F. 'Policy Brief: What do 'left behind' areas look like over time? Developing place-based typologies of left behind areas'. Local Trust, UK
- 2020 Places Platform, Smart Growth America, UDSU. 'Welcome to the Future of Grand Rapids: Assessing Place-Based Economic, Social Equity, and Public Health Performance'. Downtown Grand Rapids Inc., US
- 2018 Fleischmann, M. 'Measuring Urban Form' *URBAN DESIGN* 146 (Spring 2018), 6-7.

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)
- 2021– xyzservices: source of XYZ tiles providers. (author and maintainer)

EDITORIAL APPOINTMENTS

- 2021– Journal of Open Source Software
Topic Editor

RESEARCH INCOME

Awards

- 2020 *NumFOCUS* 'Improvement and modernization of GeoPandas documentation', \$5,000

INVITED TALKS

- 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.
- 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.
- 2019 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

Nature Machine Intelligence

Plos ONE

Urban Morphology

Academic Press Peer Review

CRC Press

Other Peer Review

pyOpenSci

FA CTU Doctoral proposals

Other

- 2021 Mentor, Google Summer of Code.
Geopandas - Dask bridge to scale geospatial analysis
Thomas Statham (University of Bristol)
- 2019 External reviewer, FA CTU Doctoral workshop

CONSULTING

- 2021 All-Party Parliamentary Group for 'left behind' neighbourhoods, UK
- 2019–20 Institute for Planning and Development, Prague, Czechia
- 2020 Places Platform, US

MEMBERSHIPS

- 2021– Royal Geographical Society (Fellow)
- 2019– International Seminar on Urban Form (Member)
- 2018– Academy of Urbanism (Young Urbanist)

Updated November 2021