Professor Francesco Pomponi, FRSA FHEA

Sustainability Chair – School of Architecture, University of York
Senior Associate – Cambridge Institute for Sustainability Leadership (CISL)
Honorary Professor – University of Cape Town
Visiting Professor – Edinburgh Napier University

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OVERVIEW

I am a versatile academic and business leader, who thrives in complex, dynamic and interdisciplinary environments. I developed from PhD student to Full Professor in less than 6 years, publishing 120+ peer-reviewed scientific outputs cited ~ 5,000 times globally.

My main area of expertise is 'quantifying sustainability', through multi-, inter-, and trans-disciplinary approaches. I am one of the global most authoritative voices in embodied and whole life carbon in the built environment, with 166 co-authors from 25 of the Top100 Universities, and a network spanning from Seattle to Melbourne, and from Helsinki to Cape Town. I have secured over £3M funding for my award-winning research from multiple and diverse sources, which demonstrates my capability of engaging successfully with different audiences.

Currently I have a portfolio of positions, on which I thrive. I love bridging excellent academic research (including my own) with business and societal relevance, in order to address the most-pressing challenges of our time.

EDUCATION

2021 **PGCert – Sustainability: Transition Engineering** – University of Canterbury (online course)
2016 **PhD – Life Cycle Sustainability Assessment** – University of Brighton, School of Environment and Technology
2012 **MSc – Engineering Management** – University of L'Aquila (Italy) with 6-month research residency at Cranfield University School of Management (UK)
2006 **BEng – Industrial Engineering** – University of L'Aquila (Italy)

WORK (CURRENT)

Feb 2023 – Mar 2024	Interim Founding Director of the **Open Data for Climate initiative (ODCi)**, a ground-breaking new initiative led by the US-based NGO Building Transparency with philanthropic donations from the Laudes Foundation (€1.2M), Meta ($800,000) and the Ramboll Foundation ($100,000). The major donor has requested me to help launch this initiative and lead it in its first year.
2022 – to date	Chief Scientific Officer and co-founder at **Preoptima**, a start-up for the climate emergency emerged from the venture builder Carbon 13 (a spin-off from Cambridge's Judge Business School). Within 8 months from incorporation Preoptima secured £1M in pre-seed venture capital funding from a large corporate VC, and in its first year secured an additional £0.4M grant from Innovate UK.
2021 – to date	Head of Carbon Math at **Extantia Capital GmbH** – Extantia is one of the largest climate tech venture capital funds in Europe (€300M) which solely invests in solutions able to fight the climate crisis. My role is primarily focus in vetting the sustainability proposition of companies in the dealflow, and approving the investment in the Impact Committee if it meets the minimum threshold required.
2015 – to date	CISL Senior Associate, **University of Cambridge** – CISL offers this honorary title to a small number of people from business, government and civil society with demonstrably high levels of expertise and an outstanding reputation in the field of sustainability leadership. I am involved in education (teaching and supervision), public outreach, and research.

WORK (PAST)

2/23 – 6/24	Interim Founding Director of the **Open Data for Climate initiative (ODCi)**, a ground-breaking new initiative led by the US-based NGO Building Transparency with philanthropic donations from the Laudes Foundation (€1.2M), Meta ($800,000) and the Ramboll Foundation ($100,000). The major donor has requested me to help launch this initiative and lead it in its first year.
2017 – 2023	Professor, Chair of Sustainability Science and Head of the Resource Efficient Built Environment Lab (REBEL), **University of Edinburgh Napier**
2015 - 2017	Research Associate, **University of Cambridge – Centre for Sustainable Development**

	2012 – 2015	Visiting Lecturer (Built Environment), **University of Brighton**
	2006 – 2012	Project Manager I Director, **Edilglas** (family business operating in the construction glass sector, Italy and UAE)

AWARDS

BUILD - Best Early-Stage Decarbonisation Software Company (2023)
ASBP - Shortlisted for the Alliance for Sustainable Building Products – Initiative Category (2024)
BIA – Best Carbon Monitoring Tool – Building Innovation Awards (2023)
RISE – Research Innovation Sustainability Enterprise – Winner "Social Value" Award (2022)
RISE – Research Innovation Sustainability Enterprise – Highly Commended "Architectural Technology" Award (2022)
IChemE – Lord Moulton Medal (2021) – shortlisted
IDBE – Interdisciplinary Design for the Built Environment, University of Cambridge – Outstanding Tutor (2023, 2022, 2021, 2020, and 2019)
RISE – Research Innovation Sustainability Enterprise – Winner "Design, Innovation & Creativity" Award (2019)
CIOB – Chartered Institute of Building – "Best Academic Paper" Award (2017)
LSI – Leeds Sustainability Institute – "Best Contribution to the Field (Circular Economy)" Award (2017)
CIOB - Chartered Institute of Building – "Best Technical Paper" Award (2016)

FUNDING SECURED (total: £ 3,632,209 I PI: £ 2,747,016)

Year	Funding details	Value (fEC)
2023 - 2024	**Innovate UK**: Net Zero Living Digital Accelerator: Planning Application Carbon Evaluation and Reduction (PACER) Platform	£379,909
2023 - 2024	**Venture Capital**: Pre-seed investment round for Preoptima Ltd	£1,000,000
2022 - 2024	**Innovate UK**: KTP with Sustainable Lighting Manufacturer	£217,639
2022-2023	**Royal Academy of Engineering:** Affordable and sustainable green homes for underprivileged people in Africa *[Co-I]*	£34,904
2022	**Industry-funded**: Life Cycle Assessment of Volumetric Building Systems	£50,000
2021 - 2026	**Innovate UK**: Phase 2: Homegrown Bio-Offsite Manufacture (Bio-OSM) Accelerator *[Co-I]*	£489,562
2021 - 2026	**Scottish Government:** Researching and proposing a standard rule of responsibility for embodied carbon emissions through the value chain	£15,195
2021 - 2024	**Royal Academy of Engineering**: Sustainable Homes Enabling Long-term Empowerment of Refugees (SHELTERs)	£557,751

2021 - 2023	**Royal Academy of Engineering:** Restoring Environments, Societies, Ecosystems and Trees (RESET)	£65,099
2021 - 2022	**Industry-funded**: Life Cycle Assessment of Modular Housing Systems	£50,000
2020 - 2021	**Zero Waste Scotland:** Scottish Waste Evaluating Framework and Tool	£30,000
2019 - 2023	**Royal Academy of Engineering**: Research informed teaching of sustainable development in South Africa	£50,000
2019 - 2021	**UKRI:** The Seven Kingdoms of Wester Hailes: Developing Researchers in Place *[Co-I]*	£63,045
2019 - 2020	**Zero Waste Scotland**: Carbon Metric 2.0: Advancing Scotland's Sustainability Assessment	£33,000
2019 - 2020	**Whitby Wood Foundation:** Comparison of Nuclear and Wind Energy for effective policies in the UK	£14,000
2019 - 2020	**Zero Waste Scotland**: Scoping Study on Embodied Carbon: Gaps and Future Roadmap	£16,500
2018 - 2022	**European Commission Framework Programmes:** InFutUReWood *[Co-I]*	£247,680
2018 - 2019	**Royal Academy of Engineering**: Informational Database for Sustainable and Energy Efficient Materials in Sub-Saharan Africa *[Co-I]*	£20,000
2018 - 2019	**Royal Academy of Engineering:** Circular design of emergency sheltering for Africa: a holistic approach	£61,886
2018 - 2019	**EPSRC:** Getting the right numbers and getting the numbers right: quantifying the embodied carbon of building structures	£156,834
2018 - 2019	**Royal Academy of Engineering:** The Circular Economy in Motion *[Co-I]*	£30,000
2016 - 2017	**GCRF:** Modelling and in-situ monitoring of sustainable buildings in Colombia	£49,200

FUNDED PROJECTS DELIVERED AS RESEARCH ASSOCIATE

- 2016 - 2017: Innovate UK & Engineering and Physical Sciences Research Council (EPSRC) at the University of Cambridge – "Implementing Whole Life Carbon in Buildings (IWLCB)" an industry/academia collaboration with ARUP, Sturgis Carbon Profiling, Faithful and Gould, Land Securities, SBP, Laing O'Rourke and the RICS. (**£400k**)
- 2015 - 2016: Newton Trust – "Quantifying embodied carbon reduction potential in buildings" - University of Cambridge (**£38k**)
- 2012: EU 7th Framework Programme CO^3 (Collaboration Concepts for Co-modality) – Cranfield University (**€2M**)

SUPERVISION (research students only)

PhD	**awarded** 2020	Modelling, integration and optimisation of solar thermal technologies [Dr Ruth Saint]

PhD	**awarded** 2022	Construction materials and the circular economy: an assessment of the potential for bio-based materials to contribute to societal objectives [Dr Jim Hart]
PhD	**awarded** 2022	Sustainable cities of tomorrow: the interface between future studies and the circular economy [Dr Ricardo Weigend Rodriguez]
PhD	**awarded** 2024	Circular economy for sustainable refurbishments of residential properties in the UK
PhD	**awarded** 2024	Life cycle assessment of energy efficient upgrades
PhD	submission 2024	Supply-demand potential for hemp-based construction to decarbonise the built environment in Canada
PhD	submission 2025	A standard rule of responsibility for embodied carbon emissions through the value chain
PhD	submission 2025	Economic viability and environmental sustainability of bamboo-timber composites
PhD	submission 2026	Carbon Neutrality Verification: a realistic contributory stage toward the goal of net zero?
MRes	awarded 2017	Comparative energy and comfort analysis of façade passive strategies in the Mediterranean region
MRes	awarded 2018	Interactive feedback systems for adaptive learning of engineering services in office buildings

TEACHING

I have always achieved satisfaction rates of > 90% and regularly been rated as "outstanding", "inspirational", and "best lecturer I have ever had". I am happy to provide references from my students upon request.

Postgraduate programmes:

- Advanced Life Cycle Assessment (Module Leader, 30 students)
- Waste Management (Module Leader, 25 students)
- Circular Economy (Module Leader, 50 students)
- Sustainable Building Design (Module Leader, 50 students)
- Integrated Sustainability Analysis (Module Leader, 30 students)

Undergraduate programmes:

- Integrated Design Project (Guest lecturer, 100 students)
- Computer Aided Design (Guest lecturer, 150 students)
- Introduction to the Environmental LCA of Buildings (Module Leader, 50-70 students)
- Project management in construction (Module Leader - taught at Shanghai Normal University, 150-200 students)

MEDIA PRESENCE & COVERAGE

- Investor Showcase: Extantia Capital – investing in climate-serious start-ups (link)
- Thirty to Net Zero - Construction Industry Emissions to Blow 50 Gt Hole In Global Carbon Budget: Report (link)
- Sustainable Growth Voice – Startups & Disruptive Tech: Preoptima (link)
- Construction Week – (link)
- PLANETech World 2022 – Carbon Accounting and Trading (link)
- World Economic Forum – "Paris or Manhattan: Which type of city is best for reducing emissions?" (link)
- Inside Climate News – "Warming Trends: the Benefits of Shorter Buildings" (link)
- Bloomberg – "The best cities for low carbon emissions aren't the tallest" (link)
- Fast Company – "Is building tall really best? Researchers dispel the myth of climate-friendly skyscrapers" (link)
- BBC World Service – "Semi-cube: the optimal building form to fight climate change" (link)
- Carbon Brief – "Construction fever' responsible for one fifth of China's CO_2 emissions" (link)
- BBC World Service – "Urban Heat Island effect in Latin America" (link)
- CNN – "Will travelers trash or treasure the planet after the pandemic?" (link)
- Fox News – "COVID-19 pandemic triggered 'economic contagion'" (link)
- World Economic Forum – "How COVID-19 will look to geologists of the future" (link)
- The Conversation – "Making cities cooler is a no brainer – so why are we doing so little about it?" (link)
- Arup Community Engagement – "Arup Education Trust and IDBE collaboration" (link)
- The Conversation – "So Much for COP23" (link)
- World Economic Forum – "There's a whole conversation we aren't having about climate change" (link)
- The Scotsman – "Building as we did in the past is not sustainable and must change" (link)

EVIDENCE OF ESTEEM AND EXTERNAL VISIBILITY (selected sample)

- Invited Speaker – London Low Carbon Development Group
- Invited Speaker – HENN Architectural Practice (Berlin)
- Invited Speaker – PLANETech World (Israel)
- Invited Expert – Carbon13 – judge for carbon pitches
- Invited Expert – UKGBC Embodied Carbon Taskforce
- Invited Peer Reviewer – CIBSE Embodied Carbon Methodology for Building Services
- Invited Expert Peer Reviewer – IPCC 6th Assessment Report WGIII

- External Examiner – University of Cambridge, Laing O'Rourke Centre for Construction Engineering & Technology
- Invited Speaker – UN Office for Project Service (Kenya)
- Invited keynote – International Conference of the US Architectural Engineering Institute of the American Society of Civil Engineers (ASCE) at the University of Colorado Boulder (USA)
- Invited keynote – International Conference on Construction Management at the University of Cape Town (South Africa)

- Invited Expert – UK Ministry of Housing, Communities and Local Governments for revisions to existing building regulations
- Invited Speaker – The Scottish Informatics & Computer Science Alliance (SICSA) – Track: AI and Sustainable Society
- Invited Peer-Reviewer – IEA Energy Technology Perspective
- Invited Reviewer – Grants submitted to the Fonds de la Recherche Scientifique – FNRS (EU)
- Invited Reviewer – Grants submitted to Save The Children Research for Health in Humanitarian Crises (R2HC)
- Invited Speaker – Carbon Lifecycle Analysis in the Built Environment as part of the Scotland-wide Energy Technology Partnership
- Invited keynote – International Conference on Sustainable Production and Consumption
- Reviewer – CIBSE & ASHRAE Technical Symposium 2020

- Scientific Committee Member – 2nd International Conference on Sustainable Production & Consumption
- Invited Reviewer – EPSRC Research Grants Application
- Invited Reviewer – UK Research & Innovation Transforming Construction Network Plus (TCN+) research proposals
- Invited lecturer and keynote speaker – Universidade Federal de Campinas (Brazil)
- Appointed Visiting Associate Professor – Université Laval (Québec)
- Invited Expert Reviewer: IEA Report "Exploring different clean energy pathways: The case of material efficiency"
- Scientific Committee Member – Leeds Sustainability Institute's SEEDS International Conference
- Reviewer – CIBSE & ASHRAE Technical Symposium 2019

- Lead consultant – The Concrete Centre (Comparative analysis of environmental performance of reinforced concrete and engineered timber)
- Scientific Committee Member – 1st International Conference on Construction Circular Economy (ICCCE2019)
- Invited keynote - Opening Ceremony of the Sudanese Sustainable Building Council

- Invited Reviewer FWO Postdoctoral Fellowship
- PhD External Examiner (Cardiff University)
- Invited expert for the International Energy Agency (IEA) Policy Forum on Material Trends and Building Construction (Paris)
- Invited reviewer for funding applications for Industrial Doctorates - Netherlands Organisation for Scientific Research (NWO)
- Invited expert – IEA meeting on Building Information Modelling (BIM) and Life Cycle Assessment (LCA) (ETH Zurich)
- Scientific Committee Member - International Association for Life Cycle Civil Engineering (IALCCE 2018)
- Invited piece for 'The Conversation'
- Invited Reviewer Elsevier book on "Sustainable Construction Technologies"
- Invited participant to the Royal Academy of Engineering Frontiers of Engineering for Development Symposium (London)
- Invited Speaker – UK Green Building Council (UKGBC) "Advancing Net Zero: next steps for holistic carbon reduction"
- Invited contribution to the CIRP Life Cycle Engineering (LCE2018)
- Scientific Committee Member – Leeds Sustainability Institute's SEEDS International Conference
- Invited Reviewer by the Italian Ministry of Education for the scientific quality of its research
- PhD External Examiner (Aalto University, Finland)
- Authored works with the world's most authoritative figures in LCA (Profs M. Lenzen, J. Guinee, R. Heijungs)

- Invited member to the IEA Annex 72 (one of only two UK representatives)
- Contributor to the RICS Professional Statement "Whole life carbon emissions in the Built Environment"
- Invited keynote lecture – Universidad Colegio Mayor de Bogota' "Embodied Carbon in the Built Environment"
- Invited presentation at the 34th Passive and Low Energy Architecture (PLEA) conference
- Chair of the Carbon Accounting and Life Cycle Assessment Forum – 33rd PLEA conference
- Chair of the Design for Sustainability Track – International Sustainable Development Research Society
- Invited reviewer for funding applications (Industry Fellowships) to the Royal Society
- Scientific Committee Member – Leeds Sustainability Institute's SEEDS International Conference
- Consultancy - Sustainable Supply Chains in Ethiopia for PamSteele Ltd.

- Scientific Committee Member – Leeds Sustainability Institute's SEEDS International Conference
- Organiser and keynote speaker – 1st UK National Embodied Carbon Symposium – Newnham College, University of Cambridge
- Invited keynote – Engineering a Sustainable Built Environment (University of Rome – La Sapienza)
- Invited keynote SEEDS Conference – Embodied Carbon in the Built Environment
- PhD External Examiner (University of Cambridge)
- Co-author of the Chartered Institute Of Buildings - Building Performance Evaluation Guide
- Invited Speaker, Brighton Doctoral College, Early Career Researchers Panel
- Invited Speaker, Embodied Carbon in the Built Environment – Cambridge Architectural Research

ADMINISTRATIVE ROLES

- Founded and led for 6 years the Resource Efficient Built Environment Lab at ENU
- School Public Engagement Lead
- School Research Quality and Innovation Committee
- School Research Degrees Committee
- Budget monitoring and management for my funded projects
- Chair of the interview panel for five staff members and ten doctoral students
- Member of the interview committee for junior and senior faculty, and doctoral candidates

MEMBERSHIPS

HEA - Higher Education Academy: Fellow (FHEA, since 2018)
RSA – Royal Society of Arts: Fellow (FRSA, since 2017)
IET - Institution of Engineering and Technology: Full Member (MIET, since 2015)
HEA - Higher Education Academy: Associate Fellow (AFHEA, 2015-2018)
ISIE - International Society of Industrial Ecology: Full Member (since 2014)
P.E. – License of Professional Engineer, Italy (since 2006)

EDITORIAL APPOINTMENTS

Sustainable Production and Consumption - Editor
Circular Economy & Sustainability – Editorial Board Member
Structures – Editorial Board Member
Sustainability – Editorial Board Member
World – Editorial Board Member
Energies – Guest Editor
Springer Nature book series – Lead Editor

JOURNAL REFEREE

I regularly review for >40 leading international journals. Full details with verified reviews are available on my Publons profile.

Selected sample of journals:

Nature Sustainability	Environmental Science and Technology
Energy and Buildings	Building and Environment
Climate Policy	The International Journal of LCA
Energy Policy	Sustainable Cities and Society
Journal of Environmental Management	Journal of Industrial Ecology
Renewable and Sustainable Energy Reviews	Building Research & Information
Supply Chain Management	Business Strategy & the Environment
Sustainability	Int. Journal of Construction Management
Cities	J. of Housing and the Built Environment
J. of Building Engineering	Resources, Conservation & Recycling
Arch. Engineering and Design Management	Energy
Ecological Economics	Journal of Cleaner Production
Environmental Research Letters	Applied Energy

PEER – REVIEWED PUBLICATIONS

(125+ outputs, >6000 citations, * denotes project lead and/or corresponding author)

REFEREED JOURNAL ARTICLES

1. Adetoot, J., Windapo, A., **Pomponi, F.** (2024) The use of alternative building technologies as a sustainable affordable housing solution: perspectives from South Africa. *Journal of Design, Engineering and Technology* https://doi.org/10.1108/JEDT-05-2022-0257
2. Arehart, CH, Arehart JH, David, MZ, D'Amico B, Sozzi E, Dukic V, **Pomponi F*,** (2024) MONOPOLI: A Customizable Model for Forecasting COVID-19 Around the World Using Alternative Nonpharmaceutical Intervention Policy Scenarios, Human Movement Data, and Regional Demographics. *Handbook of Visual, Experimental and Computational Mathematics*. https://doi.org/10.1007/978-3-030-93954-0_2-1
3. Mazzei, I., Saint, R., Kay, A. and **Pomponi, F.***, (2023). Embodied carbon quantification of luminaires using life cycle assessment and CIBSE TM65 methodologies: A comparison case study. *Journal of Industrial Ecology*. https://doi.org/10.1111/jiec.13449
4. Liu, C.H.J., **Pomponi, F.*** and D'Amico, B., (2023). The Extent to Which Hemp Insulation Materials Can Be Used in Canadian Residential Buildings. *Sustainability*, https://doi.org/10.3390/su151914471

5. Kwaylih, A., Alshawawreh, L. and **Pomponi, F.**, (2023). Sustainability Trends in Humanitarian Architecture Research: A Bibliometric Analysis. *Sustainability*. https://doi.org/10.3390/su151411430
6. Eltaweel, A., Saint, R., D'Amico, B. and **Pomponi, F.***, (2023). A parametric thermal analysis of refugees' shelters using incremental design and affordable construction material. *Energy and Buildings* https://doi.org/10.1016/j.enbuild.2023.113110
7. Peukes, I.E., **Pomponi, F.*** and D'Amico, B., (2023). Environmental impacts of upgrading gas to electric heating and cooling, considering decarbonisation of the electricity grid. *Journal of Building Engineering*, https://doi.org/10.1016/j.jobe.2023.106066
8. Saint, R., Eltaweel, A., Adetooto, J., **Pomponi, F.*** and Windapo, A., (2023). Sandbag housing construction in South Africa: life cycle assessment and operational energy modelling. *The International Journal of Life Cycle Assessment*, https://doi.org/10.1007/s11367-023-02170-0
9. Adetooto, J., Windapo, A. and **Pomponi, F.**, (2022). The use of alternative building technologies as a sustainable affordable housing solution: perspectives from South Africa. *Journal of Engineering, Design and Technology* https://doi.org/10.1108/JEDT-05-2022-0257
10. Arehart, J.H., **Pomponi, F.**, D'Amico, B. and Srubar III, W.V., (2022). Structural material demand and associated embodied carbon emissions of the United States building stock: 2020–2100. *Resources, Conservation and Recycling* *https://doi.org/10.1016/j.resconrec.2022.106583*
11. Windapo, A., Olugboyega, O., **Pomponi, F.**, Moghayedi, A. and Emuze, F., (2022). Causality between challenges, availability, and extent of use of local building materials. *South African Journal of Science* http://dx.doi.org/10.17159/sajs.2022/9534
12. Adetooto, J., Windapo, A., **Pomponi, F.**, Companie, F., Alade, K. and Mtya, A., (2022). Strategies to promote the acceptance of sandbag building technology for sustainable and affordable housing delivery: the South African case. *Journal of Engineering, Design and Technology* https://doi.org/10.1108/JEDT-06-2022-0290
13. Göswein, V., Arehart, J., Phan-huy, C., **Pomponi, F.** and Habert, G., (2022). Barriers and opportunities of fast-growing biobased material use in buildings. *Buildings & Cities* https://doi.org/10.5334/bc.254
14. **Pomponi, F. ***, Li, M. Saint, R., D'Amico, B., Lenzen, M. (2022). Environmental benefits of material-efficient design: a hybrid life cycle assessment of a plastic milk bottle. *Sustainable Production and Consumption*. https://doi.org/10.1016/j.spc.2022.01.028
15. Moncaster, A, Malmqvist, T., Forman, T., **Pomponi, F.**, Anderson, J. (2022). Embodied carbon of concrete in buildings, Part 2: are the messages accurate? *Buildings and Cities* https://doi.org/10.5334/bc.199
16. Windapo A., Olugboyega, O., **Pomponi, F.**, Moghayedi, A., Emuze, F. (2022). Causality between challenges, availability, and extent of use of local building materials. *South African Journal of Science* http://dx.doi.org/10.17159/sajs.2022/9534

17. D'Amico, B., **Pomponi, F.*** (2022). Special issue on Sustainable Structures: Whole-life analysis, environmental impacts, and material efficiency. *Structures* https://doi.org/10.1016/j.istruc.2022.02.010
18. Sun, YY., Mengyu, Li., Lenzen, M., Malik, A., **Pomponi, F.** (2022) Tourism, job vulnerability and income inequality during the COVID-19 pandemic: A global perspective. *Annals of Tourism Research Empirical Insights* https://doi.org/10.1016/j.annale.2022.100046
19. Salemdeeb, R., Saint, R., **Pomponi, F.**, Pratt, K., Lenaghan, M. (2022). Beyond recycling: An LCA-based decision-support tool to accelerate Scotland's transition to a circular economy. *Resources, Conservation & Recycling Advances* https://doi.org/10.1016/j.rcradv.2022.200069
20. **Pomponi, F. ***, Anguita, M.L., Lange, M., D'Amico, B., Hart. E. (2021). Enhancing the Practicality of Tools to Estimate the Whole Life Embodied Carbon of Building Structures via Machine Learning Models. *Frontiers in the Built Environment.* https://doi.org/10.3389/fbuil.2021.745598
21. **Pomponi, F. ***, Saint, R., Arehart, J., Gharavi, N., D'Amico, B., (2021). Decoupling density from tallness in analysing the life cycle greenhouse gas emissions of cities. *Nature Urban Sustainability*. https://doi.org/10.1038/s42949-021-00034
22. D'Almeida, L. Rye, T., **Pomponi, F.** (2021). Emissions assessment of bike sharing schemes: The case of Just Eat Cycles in Edinburgh, UK. *Sustainable Cities and Society*. https://doi.org/10.1016/j.scs.2021.103012
23. Arehart, J., **Pomponi, F.**, D'Amico, B., Srubar, W. (2021). A new estimate of building floor space in North America. *Environmental Science & Technology*. https://doi.org/10.1021/acs.est.0c05081
24. **Pomponi, F**. * and Stephan, A. (2021). Exploring the water-energy-carbon dioxide nexus in buildings and construction: a case study on developed and developing economies. *Water Research*. https://doi.org/10.1016/j.watres.2021.116935
25. **Pomponi, F. *,** Hart, J. (2021). The greenhouse gas emissions of nuclear energy – life cycle assessment of a European Pressurised Reactor. *Applied Energy* (in press – https://doi.org/10.1016/j.apenergy.2021.116743)
26. Arehart, J., Hart, J., **Pomponi, F. ***, D'Amico, B. (2021). Carbon Storage in Buildings *Sustainable Production and Consumption.* https://doi.org/10.1016/j.spc.2021.02.028
27. Hart, J., **Pomponi, F.** (2021). Circular economy: where will it take us? *Circular Economy & Sustainability* (in press – https://doi.org/10.1007/s43615-021-00013-4).
28. Hart, J., D'Amico, B., **Pomponi, F. *** (2021). Whole-life embodied carbon in multistory buildings: Steel, concrete and timber structures, *Journal of Industrial Ecology* https://doi.org/10.1111/jiec.13139
29. **Pomponi, F. ***, Li, M., Sun, Y.-Y., Malik, A., Lenzen, M., Fountas, G., D'Amico, B., Akizu-Gardoki, O., Luque Anguita, M. (2020) A Novel Method for Estimating Emissions Reductions Caused by the Restriction of Mobility: The Case of the COVID-19 pandemic. *Environmental Science & Technology Letters* https://doi.org/10.1021/acs.estlett.0c00764

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31. D'Amico, B., **Pomponi, F. ***, Hart, J. (2020). Global potential for material substitution in building construction: the case of cross laminated timber. *Journal of Cleaner Production*. https://doi.org/10.1016/j.jclepro.2020.123487
32. Lenzen, M, Li M, Malik A, **Pomponi F**, Sun Y-Y, Wiedmann T, et al. (2020) Global socio-economic losses and environmental gains from the Coronavirus pandemic. *PLoS ONE* https://https://www.doi.org/10.1371/journal.pone.0235654
33. **Pomponi, F. ***, Crawford, R., Stephan, A., Hart, J., D'Amico, B. (2020). The building 'paradox': research on building-related environmental impacts deserves mainstream visibility and attention. *Emerald Open Research*. https://doi.org/10.35241/emeraldopenres.13838.1
34. Hart, J., **Pomponi, F. *** (2020). More Timber in Construction: Unanswered Questions and Future Challenges. *Sustainability* https://doi.org/10.3390/su12083473
35. Carriere, S. Weigend, R., Pey, P., **Pomponi, F.**, Ramakrishna, S. (2020) Circular cities: the case of Singapore. *Built Environment Project and Asset Management*. https://doi.org/10.1108/BEPAM-12-2019-0137
36. Fountas, G., Sun, Y.-Y., Akizu-Gardoki, O., **Pomponi, F. *** (2020) How Do People Move Around? National Data on Transport Modal Shares for 131 Countries. *World*. https://https://www.doi.org/10.3390/world1010003
37. D'Amico, B. and **Pomponi, F.**, (2020). On mass quantities of gravity frames in building structures. *Journal of Building Engineering*. https://https://www.doi.org/10.1016/j.jobe.2020.101426
38. Weigend Rodríguez, R., **Pomponi, F.**, Webster, K. and D'Amico, B. (2020). The future of the circular economy and the circular economy of the future. *Built Environment Project and Asset Management* https://https://www.doi.org/10.1108/BEPAM-07-2019-0063
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