

# Research Design

Carla Hyenne

todos: explain more why swimming?

Urban blue spaces have a positive impact on people's perceived mental and physical well-being - being near water makes people feel better and happier (Gascon et al. 2017). In particular, blue spaces have the potential to have an even greater influence on the wellbeing of those living in socio-economically disadvantaged neighbourhoods. This is due to a low socio-economic status being linked to poorer mental health and lower life satisfaction (van den Bogerd et al. 2021).

Most European cities have at least one natural blue space like a river, lake, harbour or canal. Due to urbanisation, water bodies have been polluted or transformed by industries and became unsafe to swim (Kampa et al. 2016). Through public pressure or for environmental concerns (**cite???**), cities have invested resources into cleaning and restoring water and waterfronts into attractive natural places for people to enjoy. Making a body of water swimmable is a large public investment: the water itself has to be cleaned, which involves identifying and dealing with polluting sources; the waterbed and surrounding environments have to be rehabilitated to safely welcome people; and the waterfront has to be equipped with infrastructure for swimming, sitting, walking, and more. Since public space is a highly valued commodity in a city, reconvertng blue spaces is a great way to take advantage of unused areas.

**improve narrative/flow of paragraph, by inverting the sentence structure** In reality, despite public blue spaces being almost always free to access - you do not need to pay to use them - they may not be fairly accessible to everyone. Firstly, physical accessibility. Those who are most likely to frequent a blue space are those living or working in the vicinity (???). The availability of public transport, bicycle infrastructure, the quality of the roads and footpaths around and in the space, also influence who visits. Second, psychological accessibility. Blue spaces (and public spaces in general) can be more or less welcoming to certain groups of

people. Gender, age, ethnicity, income, or preferences in aesthetics or activities, amongst other factors, influence who feels welcomed or attracted to a space. Discriminatory practices exclude people and groups; for example, being made to feel like spending money is necessary to fit in excludes people based on their socio-economic class (Wessells 2014).

Thus, even if a blue space is open to the public, this does not mean that people use and benefit from them fairly. This phenomenon is important to understand because unequal access to blue space is an environmental injustice.

**launches too abruptly into EJ** Environmental justice is a multi-faceted concept which brings together social and environmental concerns. Amongst other things, it advocates for the equitable access to environmental benefits. Justice in general can be broken down into three categories: distributional justice, procedural justice, and recognition justice. With regards to blue space, distributional justice focuses on social consequences based on the location of blue space interventions in the city, such as environmental gentrification. Procedural justice deals with questions of discrimination in public participation and decision making situations. Recognition justice is concerned with people and communities' perceptions, values, preferences, which may influence the ways in which they interact, or not, with a blue space (Anguelovski et al. 2020).

TODO: explain why recognition justice? ...Public spaces are places of community, identity and attachment, and everyone in the city should have equal rights to them (Agyeman et al. 2016). Restricting someone's access to public space is an act against the self-realisation of the person or community. *(i know this paragraph needs to be edited, right now there is no link in/out of it)*

Given the above, my research aims to answer the following question: **to what extent are the natural urban swimming spaces in Copenhagen (un)fairly accessible, and who benefits from them?**

This will be approached with the following sub-questions:

1. Who are the users of the space, how do they perceive it and how do they feel in it?
2. What are the factors that make the space feel accessible to them?
3. How accessible is the space to a diversity of people?
4. How fairly accessible are the blue spaces, and why?

re PPGIS; explain first the style of research necessary, then bring in PPGIS My research will be explanatory, because I aim to explain why the phenomenon of unequal access to blue space takes place (or not) based on principles of recognition justice. I will take an inductive approach, whereby my theory will emerge from data I will collect on people's experiences, perceptions and preferences of a blue space. This data is subjective, but also spatial, which lends itself well to public participatory GIS (PPGIS), a map-based survey method linking qualitative and GIS data. Using PPGIS to study people's relationship to green and blue space is recommended as research method which "might uncover local spatial knowledge and perceptions" (Anguelovski et al. 2020). It has been used to study people's interactions with and the distribution of blue spaces in Helsinki metropolitan area (Raymond et al. 2016), and also by BlueHealth to "uncover spatial aspects of people's relationships with blue spaces" (BlueHealth n.d.).

explain why one city? and explain that i want to focus on one blue space; move copenhagen up because i talk about it in my RQ The city I will focus my research on is Copenhagen. The reasons why Copenhagen makes for an interesting case with regards to my research are as follows. Firstly, Copenhagen is located on the Kattegat strait and has 92 km of coastline (Comertler 2017), therefore water features prominently in the urban landscape. Second, due to the amount of shoreline in Copenhagen, there have been many blue space rehabilitation projects in the last decades. The XX, XX, and XX harbours have all been made accessible as swimming spaces, and the XX is currently undergoing a transformation. Thirdly, the socioeconomic situation and its discourse in the city make it worthwhile to evaluate recognition justice of blue spaces. Since the early 2010s, the rate of immigration and the number of working-class households have increased, at the same time as racist and xenophobic discourses in the media and politics.... (???) (need to actually find a source and not make this up). Finally, Copenhagen's reputation as "the most liveable city" (VisitDenmark 2021), due in part to the swimming spots in the harbour, begs the question - for whom is the city liveable?

## References

Agyeman, J., Schlosberg, D., Craven, L., & Matthews, C. (2016). Trends and directions in environmental justice: From inequity to everyday life, community, and just sustainabilities. *Annual Review of Environment and Resources*, 41, 321–340.

- Anguelovski, I., Brand, A. L., Connolly, J. J., Corbera, E., Kotsila, P., Steil, J., Garcia-Lamarca, M., Triguero-Mas, M., Cole, H., Baró, F. et al. (2020). Expanding the boundaries of justice in urban greening scholarship: Toward an emancipatory, antisubordination, intersectional, and relational approach. *Annals of the American Association of Geographers*, 110(6), 1743–1769.
- Baró, F., Camacho, D. A., Del Pulgar, C. P., Triguero-Mas, M., & Anguelovski, I. (2021). School greening: Right or privilege? examining urban nature within and around primary schools through an equity lens. *Landscape and Urban Planning*, 208, 104019.
- BlueHealth. (n.d.). Softgis. <https://bluehealth2020.eu/projects/softgis/>
- Comertler, S. (2017). Greens of the european green capitals. *IOP conference series: Materials science and engineering*, 245(5).
- Gascon, M., Zijlema, W., Vert, C., White, M. P., & Nieuwenhuijsen, M. J. (2017). Outdoor blue spaces, human health and well-being: A systematic review of quantitative studies. *International journal of hygiene and environmental health*, 220(8), 1207–1221.
- Kampa, E., Langaas, S., Anzaldua, G. et al. (2016). Rivers and lakes in european cities: Past and future challenges. *European Environment Agency*, 13.
- Kronenberg, J., Haase, A., Laszkiewicz, E., Antal, A., Baravikova, A., Biernacka, M., Dushkova, D., Filčák, R., Haase, D., Ignatieva, M. et al. (2020). Environmental justice in the context of urban green space availability, accessibility, and attractiveness in post-socialist cities. *Cities*, 106, 102862.
- Raymond, C. M., Gottwald, S., Kuoppa, J., & Kyttä, M. (2016). Integrating multiple elements of environmental justice into urban blue space planning using public participation geographic information systems. *Landscape and Urban Planning*, 153, 198–208.
- van den Bogerd, N., Elliott, L. R., White, M. P., Mishra, H. S., Bell, S., Porter, M., Sydenham, Z., Garrett, J. K., & Fleming, L. E. (2021). Urban blue space renovation and local resident and visitor well-being: A case study from plymouth, uk. *Landscape and Urban Planning*, 215, 104232.
- VisitDenmark. (2021). Copenhagen is 'the most liveable city' 2021. <https://www.visitdenmark.com/press/latest-news/copenhagen-most-liveable-city-2021>
- Wessells, A. T. (2014). Urban blue space and “the project of the century”: Doing justice on the seattle waterfront and for local residents. *Buildings*, 4(4), 764–784.