

# AINA ROCA BARCELÓ

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## 1. EDUCATION

- 2019-present **PhD on Climate Change and health impacts**; Imperial College President studentship (3.5years)
- 2016-2017 **Master's Program in Health Promotion (9.17/10; first class)**; University of Girona (UdG), Girona, Spain.
- 2012-2016 **Bachelor's Degree in Biomedicine (8.77/10; first class)**; Autonomous University of Barcelona (UAB), Spain.

## 2. RESEARCH EXPERIENCE

- Sept 2022-Dec 2022 **Research stay at the European Space Agency (ESA)  $\phi$ -Lab**, Frascati, Italy (3 months)
- Oct 2019-presentt **PhD on Climate Change and health impacts**; Imperial College President studentship (3.5years)
- Aug 2017;Oct 2019 **Research Assistant in Epidemiology**; Small Area Health Statistics Unit (SAHSU), Epidemiology and Biostatistics/Public Health, Imperial College of London (ICL), London, UK.
- Sept 2016;Aug 2017 **Research Assistant in Epidemiology and data analyst**; Epidemiology Unit and Girona Cancer Registry, Department of Health, Autonomous Government of Catalonia, Catalan Institute of Oncology, Girona, Spain.
- Oct 2015;July 2016 **Laboratory Researcher**; NUCREG Laboratory, University of Bergen (UiB), Bergen, Norway.

## 3. FUNDING AND ACADEMIC AWARDS

- June 2020 **1st trilateral Global Fellows Programme & Internship**; In partnership with Imperial College London (UK), the Technical University of Munich (TUM) and the Nanyang Technological University, Singapore (NTU Singapore).
- Oct 2019 **President's PhD Scholarship year 2019/20 (3.5years)- £21,600 per annum + tuition fees**; Imperial College London, London, UK
- Aug 2018 **SPH/Athena SWAN Early Career Researcher Travel award - £1,309**; Used to attend the Joint Annual Meeting of the International Society of Exposure Science and the International Society for Environmental Epidemiology (ISEE-ISEE), Ottawa, August 2018
- April 2018 **First place in the category «Best Poster» for the study: "Risk of respiratory hospital admissions in the vicinities of large-scale composting facilities in England"**; 11<sup>th</sup> UK & Ireland Environmental & Occupational Epidemiology Conference, London, UK.
- March 2018 **First place in the category «Best Poster» for the study: "Social inequities in the risk of death for women diagnosed with an invasive breast cancer in the Girona province, Spain"**; 3<sup>rd</sup> Early Career Researchers Conference on Environmental Epidemiology 2018, Freising, Germany
- July 2017 **IDIBGI Award in the category «Best Master's Thesis»**; Institut d'Investigació Biomèdica de Girona (IDIBGI), University of Girona (UdG), Girona, Spain
- May 2017 **Grant to participate at the "Ascension Reunion" GRELL's annual meeting – 120 €**; Group for Cancer Epidemiology and Registration in Latin Language Countries (GRELL)
- June 2016 **Award in the category «Best Bachelors in Science's Thesis»** ; Autonomous University of Barcelona (UAB), Barcelona, Spain.

## 4. PROFESSIONAL MEMBERSHIPS

- Feb 2021- present **ISEE Policy Committee member**, Active on working groups 'Climate Change' and 'Urban Health'
- Oct 2020-Feb 2020 **Co-chair of the Networking sub-committee for the ISEE Young Conference 2021 & ISEE 2021** ISEE Young Conference, Basel, Switzerland and ISEE conference, Washington DC, USA, respectively
- July 2020-present **SNRN committee member**, Students and New Researchers Network (SNRN)
- July 2020-present **ISEE European Chapter committee member**, International Society Environmental Epidemiology (ISEE)
- Feb 2020-present **Founder and chair of the MRC Centre Sustainability Working group**, Imperial College London, London, UK
- May 2019- Feb 2021 **Co-chair of the MRC Early Career Researchers Society**, Imperial College London, London, UK

## 5. TEACHING, WORKSHOPS AND INVITED TALKS

- June 2022 **Keynote speaker at the ‘Environmentally Sustainable Research, Mental Health, and Equality, Diversity and Inclusion in Research’** ; Sheffield University, Sheffield, UK
- Oct 2020 **Guest speaker at the Bristol Climate change and Global Health shortcourse’**; Bristol University, Bristol, UK
- Feb 2020 **MRC Centre Sustainability Workshop (full-day; leader)**; Imperial College London, London, UK
- June 2019 **The Great Exhibition Road Festival – Greenspace and health art installation**; Imperial College London, UK
- June 2019 **I’m a Scientist, MRC Festival of medical research**; Imperial College London, UK
- March-Oct 2019 **Imperial Science Supporter for a community-led STEM project targeted to children from low-income families**; Community Science Seed Fund
- June 2019 **Panel discussion on air pollution (organizer)**; Co-hosted by the Network of Excellence in Air Quality (NExAir), Grantham Institute, London, UK
- May 2019 **Panel discussion on Climate Change (organizer)**; MRC-PHE Researchers Society, UK
- June 2018/19 **Imperial Festival** ; Imperial College London, London, UK
- June 2018 **Science Arts Mash-Up – Engagement session**; Hammersmith and Fulham Arts Festival, UK
- May 2018 **Introduction to GIS, MSc Environment and Technology**; Imperial College London, London, UK
- March 2018 **Using small area data for environmental epidemiology studies: what, why and how? (~10 students)**; 3rd Early Career Researchers Conference on Environmental Epidemiology 2018 –Freising, German

## 5. COMPLIMENTARY TRAINING/CERTIFICATES

- Nov 2020 **Satellite Remote Sensing for Urban Heat Islands**; NASA’s Applied Remote Sensing Training Program, UK
- Sep 2020 **Gaussian Process Summer School**; University of Sheffield, Sheffield, UK
- Aug 2018 **Model-Based Geostatistics and Spatial Epidemiology: a practical introduction with R; Predicting microscale urban features using street-level images – an introduction to machine learning—short course**; International Society of Exposure Science and the International Society for Environmental Epidemiology, Ottawa, August 2018
- Nov 2017 **Handling Missing Data in Administrative Studies: Multiple Imputation & Inverse Probability Weighting**; Administrative Data Research Centre for England (ADRCE), UK.
- May 2016 **Public Health Principles in Disaster and Medical Humanitarian Response—course**; Collaborating Center for Oxford University & CUHK for Disaster and Medical Humanitarian Response, Oxford, UK.

## 6. OTHER MERITS

**Languages:** English (native, IELTS 8.0), Spanish (native), Catalan (native), Italian (basic)

**Art commissions for science communication:** website graphic design for [PulseLondon project](#), banner design for [ISEE climate change webinar series](#), guest artist at London Festival of Architecture event [“Sketching the city with Google Street View”](#), [mural for the ESA φ-lab](#).

## 7. SELECTION OF PEER-REVIEWED PUBLICATIONS

**Roca-Barceló, A.**, Fecht, D., Pirani, M. *et al.* **Trends in Temperature-associated Mortality in São Paulo (Brazil) between 2000 and 2018: an Example of Disparities in Adaptation to Cold and Heat.** *J Urban Health.* 2022 Nov 10; 99: 1012–1026. <https://doi.org/10.1007/s11524-022-00695-7>

de Nazelle, A.; Roscoe, C.J.; **Roca-Barceló, A.**; Sebag, G.; Weinmayr, G.; Dora, C.; Ebi, K.L.; Nieuwenhuijsen, M.J.; Negev, M. **Urban Climate Policy and Action through a Health Lens—An Untapped Opportunity.** *Int. J. Environ. Res. Public Health* **2021**, *18*(23), 12516; <https://doi.org/10.3390/ijerph182312516>

Audrey de Nazelle, Gudrun Weinmayr, **Aina Roca-Barceló**, Charlie Roscoe, Maya Negev, Kristie Ebi, Mark Nieuwenhuijsen, Carlos Dora and Giselle Sebag. **Health co-benefits of climate action through co-production and systems thinking.** ISEE Publications.2021 [[link](#)]

Barbara Hoffmann, Hanna Boogaard, Audrey de Nazelle, [...], **Aina Roca-Barceló**, [...], George Thurston. **WHO Air Quality Guidelines 2021-Aiming for Healthier Air for all: A Joint Statement by Medical, Public Health, Scientific Societies and Patient Representative Organisations.** *Int J Public Health.* 2021 Sep 23;66:1604465. doi: 10.3389/ijph.2021.1604465

**Roca-Barceló A.**, Gaines AM, Sheehan A, Thompson R, Chamberlain RC, Bos B, Belcher RN **Making academia environmentally sustainable: a student perspective.** *Lancet Planetary Health.* **5**(9):E576-E577 . doi: [https://doi.org/10.1016/S2542-5196\(21\)00199-6](https://doi.org/10.1016/S2542-5196(21)00199-6)

**Roca-Barceló A.**, Adelaide Nardocci, Breno Souza de Aguiar, Adeylson G Ribeiro, Marcelo Antunes Failla, Anna L Hansell, Maria Regina Cardoso, Frédéric B Piel. **Risk of cardiovascular mortality, stroke and coronary heart mortality associated with aircraft noise around Congonhas airport, São Paulo, Brazil: a small-area study.** *Environ Health.* 2021 May 13;20(1):59. doi: 10.1186/s12940-021-00746-7.

**Roca-Barceló A.**, Crabbe H, Ghosh R, Freni-Sterrantino A, Fletcher T, Leonardi G, Hoge C, Hansell AL, Piel FB. **Temporal trends and demographic risk factors for hospital admissions due to carbon monoxide poisoning in England.** *Prev Med.* 2020 Jul;136:106104.

**Roca-Barceló A.**, Douglas P, Fecht D, Freni Sterrantino A, Blangiardo M, Williams B, et al. **Risk of respiratory hospital admission associated with modelled concentrations of *Aspergillus fumigatus* from composting facilities in England.** *Env Res.* 2020 April; 183, 108949.

Piel FB, Parkes B, Hambly P, **Roca-Barceló A.**, McCallion M, Leonardi G, Strosnider H, Yip F, Elliott P, Hansell AL. **Software application profile: the Rapid Inquiry Facility 4.0: an open access tool for environmental public health tracking.** *Int J Epi.* April 2020; 49(1): i38–i48. doi: <https://doi.org/10.1093/ije/dyz094>

**Roca-Barceló A.**, Viñas G., Pla H., Carbó A., Comas R., Izquierdo Á., et al. **Mortality of women with ductal carcinoma in situ of the breast: a population-based study from the Girona province, Spain (1994–2013).** *Clinical and Translational Oncology.* 2018 Dec 10; 1-9.

O'Callaghan-Gordo C., Kogevinas M, [...], **Roca-Barceló A.** [...],Nieuwenhuijsen M. **Residential proximity to green spaces and breast cancer risk: The multicase-control study in Spain (MCC-Spain).** International journal of hygiene and environmental health. 2018 July 26; 221(8):

Pinheiro PS, Callahan KE, Gomez SL, Marcos-Gragera R, Cobb TR, **Roca-Barceló A.** et al. **High cancer mortality for US-born Latinos: evidence from California and Texas.** BMC Cancer. 2017 Dec 11;17(1):478.