

# Kayla B. Schulte, PhD

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## RESEARCH INTERESTS:

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Air pollution, inequality, real-time air quality data, demography, knowledge production, digital platforms, computational & participatory methods.

## EDUCATION

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- 2023 **Doctor of Philosophy, Department of Sociology, University of Oxford**  
Funding & affiliations: Leverhulme Centre for Demographic Science & Max Planck Institute for Demographic Research International School for Population Health and Data Science  
Dissertation: *Who Cares About the Air? Inequalities in Air Pollution Information Acquisition*  
Supervisors: Professor Melinda Mills, Professor. Ridhi Kashyap
- 2017 **Master of Science, School of Geography and the Environment, University of Oxford**  
Dissertation: *Low-Cost Platform Problematics: Re-producing Infrastructural 'Knowledges' of Air Quality in America* (Hons)  
Supervisors: Professor Catharina Landström, Dr. James Palmer
- 2013 **Bachelor of Arts, Department of Earth and Environment, Franklin & Marshall College**  
Dissertation: *Lux et Lex: Deconstructing U.S. Environmental Policy through a College's Dualistic Identity*  
Supervisors: Professor James Strick, Professor Michael Kuliik

## GRANTS & AWARDS

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- 2023 (£90,000) UKRI Impact Accelerator Award – WorkAir: Healthier Air for a Healthier workforce project (Co-Investigator)
- 2023 (£28,800) British Academy Conference Grant (Principal Investigator)
- 2022 (£50,00) Defra rapid evidence review for the Air Quality Information Systems panel review (Co-Investigator)
- 2020 (£218,800) [Defra Air Quality Grant Programme](#) London Borough of Barking and Dagenham (Principal Investigator)
- 2019 (£3 Million) [UKRI-NERC Clean Air Programme](#): 'TRANSITION' Network (Co-Applicant)
- 2018 (£128,500) [Defra Air Quality Grant Programme](#) (Co-Investigator)

## ACADEMIC & PROFESSIONAL POSITIONS

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- 2023 **Postdoctoral Research Associate**  
*Exposure Science team, Environmental Research Group, Imperial College London*
- 2022 **Visiting Researcher (Doctoral Exchange Programme)**  
*Digital and Computational Demography Lab at the Max Planck Institute for Demographic Research*
- 2021-22 **Research Assistant**  
*Breathe London Project, Environmental Research Group, Imperial College London*
- 2019-21 **Public Engagement & Research Support**  
*NERC Clean Air TRANSITION Network, Institute of Applied Health Research, University of Birmingham*
- 2020 **Visiting Researcher (Doctoral Exchange Programme)**  
*OxPo exchange at SciencesPo Centre for the Sociology of Organisations*
- 2020 **Qualitative Research Assistant**  
*Meridian – Voluntary Carbon Market Research funded by BEIS*
- 2018-20 **Social Research Programme Co-lead**  
*OxAir Project – Oxford City Council, Oxfordshire County Council, DEFRA & the University of Oxford*
- 2014-16 **Research Planning & Outreach Coordinator**

## PUBLICATIONS

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Newman, S.J., **Schulte, K.**, Morellini, M.M., Rahal, C. and Leasure, D.R., 2024. Offshoring emissions through used vehicle exports. *Nature Climate Change*, pp.1-4. <https://doi.org/10.1038/s41558-024-01965-9>

**Schulte, K.** and Hudson, B., 2023. A cross-sectional study of inequalities in digital air pollution information access and exposure reducing behavior uptake in the UK. *Environment International*, 181, p.108236. <https://doi.org/10.1016/j.envint.2023.108236>

Do Lee, W., **Schulte, K.** and Schwanen, T., 2022. An Online Interactive Dashboard to Explore Personal Exposure to Air Pollution. *Findings*. <https://doi.org/10.32866/001c.49875>

**Schulte, K.** 2022. 'Real-time' air quality channels: A technology review of emerging environmental alert systems. *Big Data & Society* 9(1), 205395172211013. <https://doi.org/10.1177/20539517221101346>

Hubbell, B., Kaufman, A., Rivers, L. **Schulte, K.** Hagler, G. Clougherty, J. Cascio, W., Costa, D. 2018 Social and Behavioral Drivers and Impacts of Air Quality Sensor Use. *Science of the Total Environment*. <https://doi.org/10.1016/j.scitotenv.2017.11.275>

## PRESENTATIONS & POSTERS

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**Theory and practice of engaging publics in air quality discussion.** Impact on Urban Health Introduction to Air Quality Course. March 2024. London, UK. (Presentation)

**Innovations in Communicating Air Pollution Data and Health Information: Lessons from Breathe London.** Respirami Conference, Fondazione Menarini. February 2024. Milan, Italy. (Poster)

**Working with Diverse Communities in Environmental Research.** NERC Advanced Training Course. Imperial College London. February 2024. London, UK. (Presentation)

**Communicating air sensor data: co-designing visualisations through the Breathe London Community Programme.** Air Sensors International Conference, Accra, Ghana. October, 2023.

**Making air pollution data actionable: Co-designing projects with communities.** ERG 30<sup>th</sup> Anniversary Seminar on the Future of Air Quality Measurement Society for Exposure Science. August 2023.

**Making air pollution data actionable: learning from Breathe London community-led initiatives.** International Society for Exposure Science. August 2023. Chicago, USA. (Presentation)

**Attending the COP26 Conference with the TRANSITION Clean Air Network Team.** SPF Clean Air Programme Conference. July 2023. Birmingham, UK. (Presentation)

**Breathe London Community Programme Delivery.** C40 Partnership for Healthy Cities. July 2024. London, UK. (Presentation)

**Variation in API-derived air pollution estimates at four hospitals in London, UK.** Debugging Inequalities in Data Science Workshop. London School of Economics. May 2022. London, UK. (Presentation)

**Examining psychosocial, health status, and demographic facilitators of air pollution exposure reducing behaviours across the UK.** International Max Planck Research School for Population Health and Data Science. 3rd Annual Academy, December 2021. Rostock, Germany (Presentation)

**Air quality information 'channels' in London: when & where are they consulted?** SPF Clean Air TAPAS network seminar October 2021. UK (Presentation)

## GOVERNMENT REPORTS

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**UK Digital Air Quality Information Landscape Review.** Defra Air Quality Information Systems rapid evidence review. Nov. 2023.

**The OxAir Project: Piloting Low-Cost Sensors Across Oxford.** Defra Clean Air Grant Programme Report. October 2020.

**Wildfire Smoke and Health Risk Communication Report.** U.S. Environmental Protection Agency. EPA/600/R-17/076. Research Triangle Park, North Carolina. September 2016.

## ADVISORY PANELS

2023 World Economic Forum Hoffman Fellowship hiring panel

2023 Foreign Commonwealth and Development Office & Office of Science Panel on Citizen Science in Policy

2023 Wandsworth Air Quality Citizens Assembly Oversight Panel

2023 - Max Planck Institute for Demographic Research Population, Demography and Health School Alumni Panel

2021 – 2022 Earthshot Prize, University of Oxford Nomination Panel

## PEER REVIEW

Air Quality, Atmosphere and Health  
Annals of the Association of  
American Geographers  
Ephemera

