

Kayla B. Schulte, PhD

Email: k.schulte21@imperial.ac.uk

Website: www.kaylaschulte.com | [Google Scholar](#) | [GitHub](#)

RESEARCH INTERESTS:

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

EDUCATION

- 2023 **DPhil, 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 **M.Sc., 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 **B.A., 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 Kulilk

GRANTS & AWARDS

- 2022 (£218,800) [Defra Air Quality Grant Programme](#) London Borough of Barking and Dagenham (Principal Investigator)
- 2020 (£3 Million) [UKRI-NERC Clean Air Programme](#): 'TRANSITION' Network (Co-Applicant) (01/09/2020-01/09/2023)
- 2019 (£128,500) [Defra Air Quality Grant Programme](#) (Co-Investigator) (01/05/2019-01/10/2020)
- 2019 Leverhulme Centre for Demographic Science Studentship
- 2018 Air Sensors International Conference Travel Support Recipient
- 2016 University of North Carolina Asheville MLAS Sustainability Award
- 2014 Inaugural Robertson Post-Baccalaureate Award Recipient
- 2009 U.S. National Science Honors Society Award Winner
- 2009 U.S. National Honors Society Award Winner

ACADEMIC & PROFESSIONAL POSITIONS

- 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, Imperial College London Environmental Research Group
- 2019-21 **Public Engagement & Research Support**
NERC Clean Air TRANSITION network team, Institute of Applied Health Research at the 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 – sponsored by Oxford City Council, Oxfordshire County Council, DEFRA & the University of Oxford
- 2014-16 **Research Planning & Outreach Coordinator**
Air, Climate, and Energy National Program, U.S. Environmental Protection Agency
- 2013-14 **Post-Baccalaureate Research Associate**
Department of Earth and Environment, Franklin & Marshall College

PUBLICATIONS

Do Lee, W., **Schulte, K.** and Schwanen, T., 2022. An Online Interactive Dashboard to Explore Personal Exposure to Air Pollution. Findings.

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. Social and Behavioral Drivers and Impacts of Air Quality Sensor Use. *Science of the Total Environment*. April 2018.

PRESENTATIONS

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.

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.

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

The OxAir Project: Competency Group Methodology. Health & Communication Session, chaired by Dr. Suzanne Bartington. Oxford Air Quality Meeting, January 7th 2020.

The OxAir Project: Motivations. Digital Visual Publics Session, chaired by Dr. Jennifer Gabrys. Digital Visual Cultural Conference, University of Oxford.

Air Quality Platform Problematics: Illuminating the Gap between Platform Design & Applications. Data Communication Session. Air Sensors International Conference 2018.

GOVERNMENT REPORTS

Department for Environment, Food and Rural Agriculture (Defra) report on Clean Air Grant Programme award for The OxAir Project: Piloting Low-Cost Sensors Across Oxford. October 2020.

U.S. Environmental Protection Agency. Wildfire Smoke and Health Risk Communication Report. September 2019. EPA/600/R-17/076. Research Triangle Park, North Carolina. September 2016.