



Kayla B. Schulte

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RESEARCH INTERESTS:

Air pollution, inequality, real-time air quality data, demography, knowledge production, digital platforms

EDUCATION

2023 **Probationer Research Student, 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? Socio-Economic and Demographic Divides in Air Quality Information Acquisition*

Supervisors: Professor Melinda Mills, Dr. 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*

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

RESEARCH POSITIONS

2018 **Social Science Researcher**

OxAir Project – sponsored by Oxford City Council, Oxfordshire County Council, DEFRA & the University of Oxford

2016-17 **MSc Graduate Researcher**

Department of Geography and the Environment, 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
- 2012-13 **Policy Researcher**
Investment Office, Franklin & Marshall College
- 2011 **Policy & Research Consultant**
Stewards of the Lower Susquehanna Riverkeeper, Lancaster, Pennsylvania
- 2010 **Environmental Research Lead**
To New York State Assembly Candidate Anna Sterne, Tarrytown, New York

GRANTS & AWARDS

- 2020 (£3 Million) [UKRI-NERC Clean Air Programme](#): 'TRANISTION' 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

PUBLICATIONS

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

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

U.S. Environmental Protection Agency. Air, Climate and Energy Strategic Research Action Plan 2016 – 2019. EPA 601/K-15/005. Washington D.C. September 2015.

Pennsylvania Department of Environmental Protection. Big Spring Run Natural Floodplain, Stream, and Riparian Wetland – Aquatic Resource Restoration Project Monitoring. November 2014.

PROFESSIONAL EXPERIENCE

- Present **Knowledge Exchange Officer**
Department of Sociology, University of Oxford
- 2013-19 **Chief Digital Strategist & Founder**
[Leman LLC](#), New York, USA
- 2012 **Head of Public Outreach**
U.S. EPA sponsored exhibit Documerica, Franklin & Marshall College
- 2012 **Writer, Web Content & Social Media Manager**
ECO18.com at Adinfinitem, New York, New York

TEACHING EXPERIENCE

- 2016 Teach Green Volunteer Teacher
University of Oxford Student Organisation
- 2015 Extracurricular Teacher
Southwest Elementary School, Durham, North Carolina
- 2014 GIS Teaching Assistant
Department of Earth and Environment, Franklin & Marshall College
- 2012 Tutor
Department of Earth and Environment, Franklin & Marshall College

RELEVANT SKILLS & COURSES

Microsoft Office (Word, Excel, Powerpoint, Project)
Adobe Creative Suite (Photoshop, Illustrator, Audition, Premiere Pro, Dreamweaver)
Apple Software (GarageBand, FinalCutPro 10X)
Basic python, HTML and CSS capabilities
Content Management Systems: WordPress, Drupal, Weebly
GIS (ESRI software and LAS tools),
GPS equipment – Trimble GeoXH, RTK GPS R8 and R10, Terrestrial Lidar Scanning
Fluent in French and Proficient in Spanish

- 2014 Adobe Illustrator Continuing Education Course, PA College of Art and Design
2014 Scientific Visualisation Intensive Course
2013 ESRI ArcGIS Online Training Certification

PROFESSIONAL SOCIETIES

- 2017 The Oxford Union Society (Hilary Term Appointed Committee Researcher)
- 2017 St. Hilda's College MCR Committee (Domestic Officer)
- 2016 The Geoscience Founder's Society at Franklin and Marshall College

TEXT BOOKS (GRAPHICS)

Breen et al. (Forthcoming). Social Mobility. Stanford University Press.

Mills, M., Barban, N. and Tropf, F. (2019) Introduction to statistical genetics data analysis. MIT Press.

Merritts, D., De Wet, A. and Menking, K., (2014). Environmental geology: an earth system science approach. Macmillan.

PRESS & OTHER WRITINGS

15 November 2018 – [Anthroposphere Feature](#)

26 June 2018 – [Sensing Air Quality in Oxfordshire](#)

13 June 2016 - [Humans of North Carolina](#)

17 February 2015 – [Franklin and Marshall Alumni Magazine feature](#)