

TOBIAS RÜTTENAUER

Curriculum Vitae
November 13, 2024

CONTACT

UCL Social Research Institute
University College London
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ACADEMIC POSITIONS

- 2022–present (tenured 2023) Assistant Professor (Lecturer) in Quantitative Social Science, UCL Social Research Institute. University College London
- 2022–present Associate Member, Nuffield College. University of Oxford
- 2019–2022 Postdoctoral Prize Research Fellow in Sociology, Nuffield College. University of Oxford
- 2018–2019 Postdoctoral Researcher, Chair of Sociology and Social Stratification. TU Kaiserslautern
- 2015–2018 Research Assistant, Chair of Sociology and Social Stratification. TU Kaiserslautern
- Apr–Sep 2015 Research Assistant, Chair of Quantitative Methods of Empirical Social Research. JMU Würzburg

EDUCATION

- 2018 Dr. phil, Sociology. TU Kaiserslautern
Dissertation: 'Environmental Inequality in Germany' (*summa cum laude*)
- 2015 Master of Arts, Sociology (Minor: Statistics). LMU Munich
- Aug–Dec 2013 Globalization Program. Venice International University
- 2012 Bachelor of Arts, Sociology (Minor: Economics). LMU Munich

RESEARCH INTERESTS

Environmental Sociology	Causal Inference
Spatial Demography	Computational Social Science
Urban Sociology	Spatial Econometrics / GIS

JOURNAL PUBLICATIONS

- Hoffmann, R., Andriano, L., Striessnig, E., Rüttenauer, T., Borderon, M., and Grace, K. (2024). Climate Change and Population: Demographic Perspectives on the 21st Century's Defining Challenge. *Vienna Yearbook of Population Research*, 22: 1–22.
- Rüttenauer, T. (2024). More Talk, No Action? The Link between Exposure to Extreme Weather Events, Climate Change Belief and Pro-Environmental Behaviour. *European Societies*, 26(4): 1046–1070.
- * News coverage in: [Austrian Academy of Science](#), [Der Standard](#), [FM4](#), [Understanding Society Insights](#), [The Economist](#), [Wiener Zeitung](#).
- Ehler, I., Bader, F., Rüttenauer, T., and Best, H. (2024). The Air Pollution Disadvantage of Immigrants in Germany: Partly a Matter of Urbanity. *European Sociological Review*, 40(4): 551–565.
- Haußmann, C. and Rüttenauer, T. (2024). Material Deprivation and the Brexit Referendum: A Spatial Multilevel Analysis of the Interplay between Individual and Regional Deprivation. *European Sociological Review*, 40(3): 479–492.
- Rüttenauer, T. and Ludwig, V. (2023). Fixed Effects Individual Slopes: Accounting and Testing for Heterogeneous Effects in Panel Data or Other Multilevel Models. *Sociological Methods & Research*, 52(1): 43–84.
- Conte Keivabu, R. and Rüttenauer, T. (2022). London Congestion Charge: The Impact on Air Pollution and School Attendance by Socioeconomic Status. *Population and Environment*, 43(4): 576–596.
- Mader, S. and Rüttenauer, T. (2022). The Effects of Non-pharmaceutical Interventions on COVID-19 Mortality: A Generalized Synthetic Control Approach Across 169 Countries. *Frontiers in Public Health*, 10: 1–8.
- Neuberger, F., Rüttenauer, T., and Bujard, M. (2022). Where Does Public Childcare Boost Female Labor Force Participation? Exploring Geographical Heterogeneity Across Germany 2007–2017. *Demographic Research*, 46: 693–722.
- Rüttenauer, T. and Best, H. (2022). Perceived Pollution and Selective Out-Migration: Revisiting the Role of Income for Environmental Inequality. *Journal of Ethnic and Migration Studies*, 48(15): 3505–3523.
- Mills, M. C. and Rüttenauer, T. (2022). The Effect of Mandatory COVID-19 Certificates on Vaccine Uptake: Synthetic-Control Modelling of Six Countries. *The Lancet Public Health*, 7(1): e15–e22.
- * News coverage in: [BBC](#), [Bloomberg](#), [Daily Mail](#), [El Mundo](#), [The Guardian](#), [La Repubblica](#), [Sky News](#), [Süddeutsche Zeitung](#), [The Times](#).
- Rüttenauer, T. (2022). Spatial Regression Models: A Systematic Comparison of Different Model Specifications Using Monte Carlo Experiments. *Sociological Methods & Research*, 51(2): 728–759.
- * ISA RC33 (Logic and Methodology) Best Paper Award 2021
- Rüttenauer, T. and Best, H. (2021). Environmental Inequality and Residential Sorting in Germany: A Spatial Time-Series Analysis of the Demographic Consequences of Industrial Sites. *Demography*, 58(6): 2243–2263.
- Rüttenauer, T. (2019). Bringing Urban Space Back in: A Multilevel Analysis of Environmental Inequality in Germany. *Urban Studies*, 56(12): 2549–2567.
- Rüttenauer, T. (2018). Neighbours Matter: A Nation-wide Small-area Assessment of Environmental Inequality in Germany. *Social Science Research*, 70: 198–211.
- Best, H. and Rüttenauer, T. (2018). How Selective Migration Shapes Environmental Inequality in Germany: Evidence from Micro-Level Panel Data. *European Sociological Review*, 34(1): 52–63.

BOOKS, CHAPTERS AND REPORTS

- Hoffmann, R., Andriano, L., Borderon, M., Grace, K., Rüttenauer, T., and Striessnig, E. (2024): Population and Climate Change. *Vienna Yearbook of Population Research*. [Volume 22]
- Rüttenauer, T. (2022). Muster ethnischer Segregation in Deutschland – Ein Vergleich anhand räumlicher Segregationsmaße. In Kruse, H. and Teltemann, J., editors, *Differenz im Raum*, volume 35 71–109. Springer, Wiesbaden.
- Mills, M. C., Rüttenauer, T. (2021). The Impact of Mandatory COVID-19 Certificates on Vaccine Uptake – Synthetic Control Modelling of 6 Countries. Rapid research prepared for Scientific Advisory Group for Emergencies (SAGE), UK Government Publication.
- * was available for participants to read at SAGE meeting 96
- Rüttenauer, T. and Best, H. (2021). Consistent Inequality Across Germany? Exploring Spatial Heterogeneity in the Unequal Distribution of Air Pollution. In Franzen, A. and Mader, S., editors, *Research Handbook on Environmental Sociology* 41–61. Edward Elgar Publishing.
- Rüttenauer, T. (2018). *Environmental Inequality in Germany*. TU Kaiserslautern, Kaiserslautern. Online available at <https://nbn-resolving.org/urn:nbn:de:hbz:386-kluedo-54210>.
- * Haaß Foundation (TU Kaiserslautern) Dissertation Award 2018
- * Freundeskreis (TU Kaiserslautern) Dissertation Award 2018

OPEN SOURCE SOFTWARE (R)

- Rüttenauer, T. and Ludwig, V. (2019). *feisr: Estimating Fixed Effects Individual Slope Models*. Available on CRAN.
- Contributions to *spatialreg* by R. Bivand and G. Piras.

WORK IN PROGRESS

- Rüttenauer, T., and Aksoy, O.: When Can We Use Two-Way Fixed-Effects (TWFE): A Comparison of TWFE and Novel Dynamic Difference-in-Differences Estimators. [Working paper]
- Rüttenauer, T., and Kapelle, N.: Panel Data Analysis. [Working paper]
- Rüttenauer, T.: Spatial Data Analysis. [Working paper]
- Rüttenauer, T., Bader, F., Best, H., and Ehler, I.: Breathing Unequal Air: Environmental Disadvantage and Residential Sorting of Immigrant Minorities in England and Germany. [Working paper]
- Ivanova, K., and Rüttenauer, T.: Greening the Nursery: Exploring the (Un)fertile Grounds of Environmentalism in Fertility Intentions.
- Rüttenauer, T. and Wiertz, D.: Neighbourhood Attainment of Immigrant Minorities in England: A Computational Approach.
- Farugie, A., Tibubos, A. N., and Rüttenauer, T.: The Impact of Neighborhood Deprivation on Psychological Distress in Europe: A Multilevel Analysis.
- König, C., Heisig, J.P., Rüttenauer, T., Schaeffer, M., and Wiedner, J.: Environmental Quality, Local Infrastructures, and Residential Choice: A Survey Experiment on Ethnic Differences in Neighborhood Preferences.
- Rüttenauer, T.: Changing Inequalities? The Influence of Environmental Zoning Policies on the Unequal Distribution of Air Pollution in London.
- Wiehn, J., Tietjen, S., Conrad, A., Bunge, C., Rüttenauer, T. Environmental Inequalities in Germany: A Protocol of an Environmental Systematic Review.

FUNDING AND GRANTS

- 2022 SICSS Oxford (with E. Akimova, R. Kashyap, C. Rahal, F. Rampazzo). Σ 34,450 £
- 2021 SICSS Oxford (with C. Barrie, C. Rahal, F. Rampazzo). Σ 10,000 £
Workshop Environmental Social Sciences (with S. Mader). Σ 6,700 £
- 2020 SICSS Oxford (with C. Barrie, R. Kashyap, C. Rahal). Σ 27,000 £
Workshop Environmental Social Sciences (with S. Mader). Σ 9,000 £
- 2019 Co-PI: DFG grant 'Environmental Inequality in Germany – A Nationwide Assessment of the Spatial Patterns Causing Environmental Inequality'. PI: H. Best. 365,839 €
- 2016–2018 Travel grants of the TU Kaiserslautern Nachwuchsring. Σ 4,236 €
- 2011–2015 Scholarship of the Max Weber-Program. Σ 6,300 €

CONSULTANCY & ADVISORY ROLES

- Advisory Board GLEN - The German Longitudinal Environmental Study
- 2024 German Federal Office for Building and Regional Planning
- 2023 Food Standards Agency (Research Training)
- 2022-2023 ClientEarth (Research consultancy)
- 2021-2022 UK Department of Health & Social Care (Advisory support)
- 2021 Government Response Group SAGE SPI-B (Research support)

PUBLIC OUTREACH

- Climate Change [Austrian Academy of Science](#), [Der Standard](#), [FM4](#), [The Economist](#), [Understanding Society Insights](#), [Wiener Zeitung](#)
- Covid Passports [BBC](#), [BBC Radio Oxford](#), [Bloomberg](#), [Daily Mail](#), [El Mundo](#), [The Guardian](#), [Nature](#), [La Repubblica](#), [Sky News](#), [Süddeutsche Zeitung](#), [The Times](#)

AWARDS & SCHOLARSHIPS

- 2022–present Associate Membership, Nuffield College, University of Oxford
- 2021 ISA RC33 (Logic and Methodology) Best Paper Award
- 2019–2022 Postdoctoral Prize Research Fellowship, Nuffield College
- 2018 Haaß Foundation Award for Best Social Science Dissertation
- 2018 Freundeskreis (TU Kaiserslautern) Dissertation Award
- 2016–2018 Various travel grants of the TU Kaiserslautern Nachwuchsring
- 2011–2015 Scholarship of the Max Weber-Program for talented students

ADMINISTRATIVE TASKS & SERVICES

- 2024 Member of recruitment committee, Sciences Po Paris
- 2024–present External programme examiner (Sociology degrees). University of Edinburgh
- 2024–present Member of the Academic Board. UCL

2022–present	Member of faculty committees. UCL
2021-2022	Junior Dean. Nuffield College Strategy and Resource Committee. Nuffield College Library Committee Rep. Nuffield College
2017–2019	Representative of the mid-level faculty (PhD students and postdoctoral staff). TU Kaiserslautern, Department of Social Sciences
2016–2019	Member of appointment and evaluation committees in Sociology and Cognitive Science. TU Kaiserslautern, Department of Social Sciences
Editor for	<i>Vienna Yearbook of Population Research 2024</i>
Grant reviews	<i>European Research Council (ERC); Gesellschaft für Forschungsförderung Niederösterreich; The Czech Science Foundation (GACR); UKRI Economic and Social Research Council (ESRC)</i>
Reviews for	<i>American Sociological Review; BMJ Open; Ecological Economics; Energy Research & Social Science; Environmental Research; Environmental Research Communications; Environmental Research Letters; Environmental Sociology; European Journal of Ageing; European Societies; European Sociological Review; Geoforum; Geographica Helvetica; Journal of Ethnic and Migration Studies; Journal of Statistical Software; Journal of Urban Affairs; methods, data, analyses; Nature; Nature Communications; PLOS Climate; Population and Environment; Population Studies; Proceedings of the National Academy of Sciences; Quality and Quantity; Research in Social Stratification and Mobility; Review of Income and Wealth; Social Forces; Social Science & Medicine; Social Science Research; Sociological Methods & Research; The Lancet Planetary Health; The Lancet Public Health; Urban Studies; Zeitschrift für Soziologie</i>

FURTHER TRAINING

Apr 2021	Machine Learning. Politics Spring School. University of Oxford
June 2019	Summer Institute in Computational Social Science. University of Oxford
Aug 2016	Spatial Econometrics. Summer School in Social Science Data Analysis. University of Essex

TEACHING EXPERIENCE

See [teaching materials online](#).

2024/25	Data Science Dissertation Module	UCL	Lecture	UG
	Environment & Climate Change	UCL	Lecture	UG
2023/24	Data Science Dissertation Module	UCL	Lecture	UG
	Principles of Social Science Research (with M. Sironi)	UCL	Lecture	UG
2022/23	Principles of Social Science Research (with P. Engzell)	UCL	Lecture	UG
Summer 2019	Empirical Urban Sociology	TU Kaiserslautern	Seminar	B.A.
	Data Analysis using SPSS	TU Kaiserslautern	Tutorial	B.A.
	Data Analysis using R	TU Kaiserslautern	Tutorial	B.A.
Winter 2018	Spatial Data Analysis	TU Kaiserslautern	Seminar	M.A.
	Experiments in Sociology	TU Kaiserslautern	Seminar	B.A.
Summer 2018	Networks and Social Dynamics	TU Kaiserslautern	Seminar	B.A.

Winter 2017	Experiments in Sociology	TU Kaiserslautern	Seminar	B.A.
Summer 2017	Empirical Urban Sociology	TU Kaiserslautern	Seminar	B.A.
Winter 2016	Experiments in Sociology II	TU Kaiserslautern	Seminar	B.A.
	Experiments in Sociology I	TU Kaiserslautern	Seminar	B.A.
Summer 2016	Environmental Sociology	TU Kaiserslautern	Seminar	B.A.
Winter 2015	Environmental Sociology	TU Kaiserslautern	Seminar	B.A.
	Education and Labour Market	TU Kaiserslautern	Seminar	B.A.
Summer 2015	Quantitative Methods: Data Collection	JMU Würzburg	Tutorial	B.A.

WORKSHOPS, CONFERENCES & SESSIONS

2024	Advanced Panel Data Analysis	Workshops for Ukraine	Workshop
	Climate Change and Population Studies	BSPS Bath	Conference strand
	Geodata & Spatial Regression	GESIS	Workshop
	Spatial Data Analysis	EUI	Workshop
	Quantitative Social Science Seminar Series	UCL	Seminar series
2023	Impact Evaluation	Food Standards Agency	Workshop
	Panel Data Analysis	University of Warwick	Workshop
	Climate Change, Environmental Problems, and Population Dynamics	BSPS Keele	Conference strand
	Geodata and Spatial Regression Analysis	GESIS	Workshop
	Applied Introduction to Web Scraping	UCL	Workshop
2022	Panel Data Analysis	University of Warwick	Workshop
	SICSS – Summer Institute in Computational Social Science (with E. Akimova, R. Kashyap, C. Rahal, F. Rampazzo)	University of Oxford	Summer school
	Demographic Consequences of Environment Risk (with R. Conte Keivabu)	BSPS Winstchester	Conference strand
2021	Panel Data Analysis	University of Warwick	Workshop
	Environmental Social Sciences: Current Issues and Future Perspectives (with S. Mader)	University of Oxford	Mini conference
	SICSS – Summer Institute in Computational Social Science (with C. Barrie, C. Rahal, F. Rampazzo)	University of Oxford	Summer school
2020	Environmental Social Sciences: Current Issues and Future Perspectives (with S. Mader)	University of Bern	Mini conference
	Applied Fixed Effects Panel Regression using Stata (with V. Ludwig)	University of Calgary	Workshop
	Sociology Research Seminar (with C. Barrie, F. Wen)	Nuffield College	Seminar series

cancelled	SICSS – Summer Institute in Computational Social Science (with C. Barrie, R. Kashyap, C. Rahal)	University of Oxford	Summer school
2019	Spatial Regression Models	University of Göttingen	Workshop
2017, 2019	Quantitative Spatial Analysis of Micro and Macro Data (with H. Best)	ESRA Lisbon, Zagreb	Conference session

PRESENTATIONS

- Greening the Nursery: Exploring the (Un)fertile Grounds of Environmentalism in Fertility Intentions
BSPS 2024
- Changing Inequalities? The Influence of Environmental Zoning Policies on the Unequal Distribution of Air Pollution
EPC 2024 · Workshop TU Kaiserslautern 2022 · UCL QSS Away Day 2022
- When Can We Use Two-Way Fixed-Effects (TWFE): A Comparison of TWFE and Novel Dynamic Difference-in-Differences Estimators.
Life Trajectories Workshop Cologne 2024 · UCL QSS Away Day 2023
- Environmental Inequality Across German Cities.
IRB-Workshop BBSR 2024
- Neighbourhood Attainment of Immigrant Minorities in England: Diverging Trajectories of Poverty and Air Pollution.
Lecture Series Leipzig 2024 · Earth Observation Workshop GESIS 2023 · LSE Demography Seminar 2022 · PAA 2022 · RC28 2022 · EPC 2022 · ECSR 2021 · LMU Analytical Sociology 2021
- Breathing Unequal Air: Environmental Disadvantage and Residential Sorting of Immigrant Minorities in England and Germany.
RC28 2023 · BSPS 2023
- Air pollution, inequalities and energy poverty. An overview of the situation in Europe.
Client Earth Air Pollution Meeting 2023
- Panel Discussion: Population And Greenhouse Gas Emissions.
Wittgenstein Centre Conference 2022
- Exposure to Extreme Weather Events in the UK May Affect Environmental Attitudes But Does Not Change Individual Behaviour.
BSPS 2022 · LMU Analytical Sociology 2020 · PAA 2021 · ESA 2021
- Environmental Factors, Individual Attitudes, and Selective Migration.
Nuffield College Sociology Seminar 2022
- Spatial Regression Models: A Systematic Comparison of Different Model Specifications Using Monte Carlo Experiments
RC33 2021 · ESRA 2019 · LMU Analytical Sociology 2018
- Environmental Inequality and Residential Sorting in Germany: A Spatial Time-Series Analysis Identifying the Demographical Consequences of Industrial Sites
PAA 2021 · Workshop WZB Berlin 2021 · Regional Sociology Workshop Konstanz 2019 · Nuffield Sociology Seminar 2019 · Konstanz Research Colloquium 2019 · Congress of the Academy of Sociology 2018 · ESRA 2017 · RC33 2016 · Bern Sociology Colloquium 2016 · Conference ETH Zurich 2016
- Environmental Inequality and Selective Migration: A Household-Level Panel Study on How Pollution Affects the Probability of Moving
ECSR 2019 · LMU Analytical Sociology 2019
- Using Large Scale Register Based Data to Analyse Environmental Inequality: Different Measures, Different Scales - Same Results?

Congress of the Academy of Sociology 2019

The Unequal Distribution of Environmental Pollution: A Consequence of Selective Migration?
Kaiserslautern Research Colloquium 2019

Bringing Urban Space Back In: A Multi-Level Analysis of Environmental Inequality in Germany.
ASA 2018 · MPIDR Rostock Seminar 2018 · LMU Analytical Sociology 2017

Neighbours Matter: A Nation-Wide Small-Area Assessment of Environmental Inequality in Germany
ESRA 2017 · Conference on Human Dimensions of Environmental Risks ETH Zurich 2017

Lebenszufriedenheit und Tagesziele – eine Längsschnittanalyse anhand eines Smartphone Panels. Research
Colloquium of the Institute for Sociology
LMU Research Colloquium 2015