

TOBIAS RÜTTENAUER

Curriculum Vitae
December 29, 2022

CONTACT

Social Research Institute
University College London
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ACADEMIC POSITIONS

- 2022–present Assistant Professor in Quantitative Social Science, 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 Research Assistant, 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

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

RESEARCH INTERESTS

Environmental Sociology	Causal Inference
Spatial Demography	Computational Methods
Urban Sociology	Spatial Econometrics / GIS

PUBLICATIONS (PEER REVIEWED)

- 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.
- * Shared first authorship
- 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.
- * International news coverage, e.g.: BBC, Bloomberg, Daily Mail, El Mundo, 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 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. and Ludwig, V. (2020). Fixed Effects Individual Slopes: Accounting and Testing for Heterogeneous Effects in Panel Data or Other Multilevel Models. *Sociological Methods & Research*, OnlineFirst.
- 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.

OTHER PUBLICATIONS

- 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.
- 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

SOFTWARE (R)

Rüttenauer, T. and Ludwig, V. (2019). *feisr: Estimating Fixed Effects Individual Slope Models*. Available on CRAN at <https://CRAN.R-project.org/package=feisr>.

WORK IN PROGRESS

Bader, F., Best, H., Ehler, I., and Rüttenauer, T.: Selective Mobility Contributes to Immigrants' Higher Exposure to Air Pollution: A Panel Analysis Spatially Linking Objective Pollution Data and Micro-Level Survey Data for Germany.

Ehler, I., Bader, F., Best, H., and Rüttenauer, T.: The Air Pollution Disadvantage of Immigrants in Germany: A Matter of Urbanity? *R&R at European Sociological Review*

Haußmann, C. and Rüttenauer, T.: Deprivation and the Brexit Referendum: Analysing the Interplay Between Regional and Individual Deprivation. *R&R at European Sociological Review*

Heisig, JP., König, C., 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.

Rüttenauer, T.: Extreme Weather Events Elevate Climate Change Belief but not Pro-Environmental Behaviour.

* News coverage in: Austrian Academy of Science, Wiener Zeitung, FM4.

Rüttenauer, T.: Neighbourhood Attainment of Immigrant Minorities in England: A Computational Approach.

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 for DFG grant 'Environmental Inequality in Germany – A Nationwide Assessment of the Spatial Patterns Causing Environmental Inequality' by 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

2022 Research consultancy for ClientEarth (law charity)

2021-2022 Advisory support for UK Department of Health & Social Care

2021 Research support for government response group SAGE SPI-B

PUBLIC OUTREACH

Climate Change	Austrian Academy of Science, Wiener Zeitung, FM4
Covid Passports	BBC, BBC Radio Oxford, Bloomberg, Daily Mail, El Mundo, Nature Feature, The Guardian, La Repubblica, Sky News, Süddeutsche Zeitung, The Times

ADMINISTRATIVE TASKS & SERVICES

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
Reviews for	<i>American Sociological Review; Energy Research & Social Science; Environmental Research; Environmental Sociology; European Journal of Ageing; European Sociological Review; Geoforum; Geographica Helvetica; Journal of Ethnic and Migration Studies; 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 Science & Medicine; The Lancet Public Health; Urban Studies; Zeitschrift für Soziologie</i>

WORKSHOPS, CONFERENCES & SESSIONS

forthcoming	Geodata and Spatial Regression Analysis	GESIS	Workshop
	Spatial Data and Analysis	DeZIM-Institut	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 Winschester	Conference session
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
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TEACHING EXPERIENCE

Term 1 2022	Principles of Social Science Research	UCL	Lecture	UG
Summer 2019	Empirical Urban Sociology Data Analysis using SPSS Data Analysis using R	TU Kaiserslautern	Seminar	B.A.
		TU Kaiserslautern	Übung	B.A.
		TU Kaiserslautern	Übung	B.A.
Winter 2018	Spatial Data Analysis Experiments in Sociology	TU Kaiserslautern	Seminar	M.A.
		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 Experiments in Sociology I	TU Kaiserslautern	Seminar	B.A.
		TU Kaiserslautern	Seminar	B.A.
Summer 2016	Environmental Sociology	TU Kaiserslautern	Seminar	B.A.
Winter 2015	Environmental Sociology Education and Labour Market	TU Kaiserslautern	Seminar	B.A.
		TU Kaiserslautern	Seminar	B.A.
Summer 2015	Quantitative Methods: Data Collection	JMU Würzburg	Übung	B.A.
2020-2021	Co-supervision of 2 MPhil theses			
2016–2019	Supervision of 22 Bachelor theses			

PRESENTATIONS

2022	Panel Discussion: Population And Greenhouse Gas Emissions. Wittgenstein Centre Conference 2022.	
	Neighbourhood Attainment of Immigrant Minorities in England. A Machine Learning Approach for Moving Trajectories. LSE Demography Seminar.	
	Changing Inequalities? The Influence of Environmental Zoning Policies on the Unequal Distribution of Air Pollution in London. Workshop TU Kaiserslautern.	
	Exposure to Extreme Weather Events in the UK May Affect Environmental Attitudes But Does Not Change Individual Behaviour. BSPS, Winchester.	
	Neighbourhood Attainment of Immigrant Minorities in England: Escaping Poverty but Not Air Pollution?. EPC, Groningen.	
	Environmental Factors, Individual Attitudes, and Selective Migration. Sociology Seminar, Nuffield College.	
	Neighbourhood Attainment of Immigrant Minorities in England: Escaping Poverty but not Air Pollution?. RC28, London.	
	Neighborhood Attainment of Immigrant Minorities in England, 2009–2019: Escaping Deprived Ethnic Enclaves but Staying in Polluted Urban Areas. PAA, Atlanta.	
	2021	Assimilation or Gentrification? Neighbourhood Attainment of Immigrant Minorities in England. Seminar Analytical Sociology, LMU Munich.
		Assimilation or Gentrification? Neighbourhood Attainment of Immigrant Minorities in England. ECSR.
Spatial Regression Models: A Systematic Comparison of Different Model Specifications Using Monte Carlo Experiments. RC33.		
Extreme Weather Events in the UK Elevate Climate Change Belief but not Pro-Environmental Behaviour. ESA.		
Environmental Inequality and Residential Sorting in Germany: A Spatial Time-Series Analysis Identifying the Demographical Consequences of Industrial Sites. PAA Annual Meeting.		
Extreme Weather Events and Environmental Attitudes and Behavior: A Large-Scale Longitudinal Approach in the United Kingdom. PAA Annual Meeting.		

- Environmental Inequality and Residential Sorting in Germany: A Spatial Time-Series Analysis Identifying the Demographic Consequences of Industrial Sites. Workshop Spatial Analysis of Social, Environmental, and Health Inequalities, WZB Berlin.
- 2020 Extreme Weather Events and Environmental Attitudes and Behaviour: A Large-Scale Longitudinal Approach in the UK. Seminar Analytical Sociology, LMU Munich.
- 2019 The Demographics of Pollution: A Spatial Analysis of Residential Sorting and Environmental Inequality. Research Colloquium Empirical Social Research, University of Konstanz.
- Environmental Inequality and Selective Migration: A Household-Level Panel Study on How Pollution Affects the Probability of Moving. Seminar Analytical Sociology, LMU Munich.
- The Demographics of Pollution: A Spatial Analysis of Residential Sorting and Environmental Inequality. Nuffield Sociology Seminar, University of Oxford.
- Using Large Scale Register Based Data to Analyse Environmental Inequality: Different Measures, Different Scales - Same Results? Congress of the Academy of Sociology, University of Konstanz.
- Environmental Inequality and Selective Migration: A Household-Level Panel Study on How Pollution Affects the Probability of Moving? ECSR, University of Lausanne.
- The Performance of Spatial Regression Models: A Comparison of Model Specifications using Monte Carlo Simulations. ESRA, University of Zagreb.
- The Unequal Distribution of Environmental Pollution: A Consequence of Selective Migration? Social Science Research Colloquium, TU Kaiserslautern.
- Selective Siting and Selective Migration in Germany: A Spatial Time-Series Analysis of Environmental Inequality Mechanisms. Workshop Methods for Urban and Regional Sociology, University of Konstanz.
- 2018 Bringing Urban Space Back In: A Multi-Level Analysis of Environmental Inequality in Germany. Seminar talk at Max-Planck-Institute for Demographic Research, Rostock.
- The More, the Better? A Systematic Comparison of Spatial Regression Models Using Monte Carlo Experiments. Seminar Analytical Sociology, LMU Munich (Poster).
- Bringing Urban Space Back In: A Multi-Level Analysis of Environmental Inequality in Germany. ASA Annual Meeting, Philadelphia.
- Selective Siting and Selective Migration in Germany: A Spatial Time-Series Analysis of Environmental Inequality Mechanisms. Congress of the Academy of Sociology, LMU Munich (Poster).
- 2017 Explaining Regional Differences in Environmental Inequality: A Multi-Level Assessment of German Cities. Seminar Analytical Sociology, LMU Munich.
- Neighbour's Influence: Different Strategies to Model Spatial Spillover Effects. ESRA, Lisbon.
- The Causes of Environmental Inequality: Evidence from Spatial Time-Series Analyses in Germany. ESRA, Lisbon.
- Neighbours Matter: A Nation-Wide Small-Area Assessment of Environmental Inequality in Germany. Conference on Human Dimensions of Environmental Risks, ETH Zurich.
- 2016 Environmental Justice in Germany: Evidence from Spatial Time-Series Analyses. RC33, Leicester.
- Environmental Justice in Germany: Evidence from Spatial Time-Series Analyses. Social Interaction and Society Conference, ETH Zurich.
- Umweltgerechtigkeit in Deutschland. Eine geographische Analyse von Umweltbelastungen. Research Colloquium of the Institute for Sociology, University of Bern.
- 2015 Lebenszufriedenheit und Tagesziele – eine Längsschnittanalyse anhand eines Smartphone Panels. Research Colloquium of the Institute for Sociology, LMU Munich.