



# Arun Frey

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PROFILE	As a computational sociologist and data scientist, I am passionate about using data to bring new evidence to bear on urgent social problems. My research works towards improving immigrant integration, combating inequality, and reducing xenophobic violence.		
RESEARCH INTERESTS	Computational Social Science ◊ Causal Inference ◊ Violence ◊ Migration ◊ Inequality		
POSITIONS	<b>Stanford RegLab</b> , Stanford University		2023–Present
	<i>Data Scientist</i>		
	<b>Leverhulme Centre for Demographic Science</b> , University of Oxford		2021–2023
	<i>Postdoctoral Researcher</i>		
	<b>Nuffield College</b> , University of Oxford		2021–2023
	<i>Nonstipendiary Research Fellow</i>		
VISITING POSITIONS	<b>The Alan Turing Institute</b>		Winter 2022
	<i>Data Study Group Fellow</i>		
	<b>Data Science for Social Good Fellowship</b> , Carnegie Mellon University		Summer 2022
	<i>Data Science Fellow</i>		
	<b>Harvard University</b>		2020–2021
	<i>Visiting Fellow</i>		
EDUCATION	<b>University of Oxford</b>		2017–2021
	<i>DPhil Sociology</i>		
	<b>University of Oxford</b>		2014–2015
	<i>MSc Sociology</i>		
PUBLICATIONS	“Preventing Eviction-Caused Homelessness through Machine-Learning-Informed Distribution of Rental Assistance”, <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , forthcoming (with Vajiac, C, Baumann, J, Smith, A, Amarasinghe, K, Lai, A, and K Rodolfa).		
	“On the effect of the New Year’s Eve sexual assaults on anti-refugee violence: A rejoinder to Schwitter and Liebe (2023)”, <i>European Sociological Review</i> , 2023. 		
	“Nowcasting daily population displacement in Ukraine through social media advertising data”, <i>Population and Development Review</i> , 2023 (with Douglas R. Leasure, Ridhi Kashyap, Francesco Rampazzo, Claire Dooley, Benjamin Elbers, Maksym Bondarenko, Mark D. Verhagen, Jiani Yan, Evelina Akimova, Masoomali Fatehkia, Robert Trigwell, Andrew J Tatem, Ingmar Weber, and Melinda C. Mills).		

PUBLICATIONS II	“Learning loss due to school closures during the COVID-19 pandemic,” <i>Proceedings of the National Academy of Sciences</i> , 2021 (with Per Engzell and Mark Verhagen). 
	“Faces in the Crowd: Estimating Protest Ideology with Twitter Data,” <i>PLOS ONE</i> , 2021 (with Christopher Barrie). 
	“The impact of mass shootings on attitudes towards gun restrictions in the United States,” <i>Socius</i> , 2021 (with David S. Kirk). 
	“Getting Under the Skin: The Impact of Terrorist Attacks on Native and Immigrant Sentiment,” <i>Social Forces</i> , 2021. 
	“Cologne Changed Everything—The Effect of Threatening Events on the Frequency and Distribution of Intergroup Conflict in Germany”, <i>European Sociological Review</i> , 2020.
WORKING PAPERS	“Inequalities in Healthcare Use during the COVID-19 Pandemic”, <i>medRxiv</i> , 2023 (with Mark Verhagen and Andrea Tilstra).
	“Shelter in Place: The impact of refugee shelter openings on local property prices and perceptions of neighbourhood quality”, <i>Working Paper</i> , 2022.
MEDIA COVERAGE	Research covered by <i>The Economist</i> , <i>Financial Times</i> , <i>The New York Times</i> , <i>New York Magazine</i> , <i>Washington Post</i> , <i>Newsweek</i> , <i>Politico</i> , <i>New Statesman</i> , <i>The Telegraph</i> , <i>The Spectator</i> , <i>The Hill</i> , <i>Times Higher Education</i> , <i>Aljazeera</i> , <i>Der Spiegel</i> , <i>El País</i> , <i>Le Soir</i> , <i>de Volkskrant</i> , <i>Sydney Morning Herald</i> , <i>Irish Examiner</i> , <i>Haaretz</i> , <i>The Hindu</i> , and other outlets.
AWARDS & GRANTS	<i>Research Grant on COVID-19 Excess Mortality (€50,000)</i> Ministry of Health of The Netherlands 2023
	<i>Cozzarelli Prize in recognition of outstanding scientific quality &amp; originality</i> National Academy of Sciences of the United States of America 2021
	<i>2021 Best Article Award</i> , European Consortium for Sociological Research 2021
	<i>Excellence in Impact Award for data-driven policy interventions</i> , O2RB 2021
	<i>Graduate Scholarship</i> , Department of Sociology, University of Oxford 2019
	<i>Graduate Scholarship</i> , St Catherine’s College, University of Oxford 2018
	<i>Quantitative Methods Scholarship</i> , Oxford Q-Step Centre 2018
	<i>Doctoral Scholarship</i> , German Academic Scholarship Foundation 2018–2021
	<i>Advanced Quantitative Methods DTP Award</i> , UK ESRC 2017–2021
	<i>Doctoral Scholarship</i> , Foundation of German Business 2017–2018
	<i>Travel Grant</i> , German Academic Exchange Service 2016
TEACHING	<b>Instructor of “Introduction to coding in R”</b> 2021–2023 Department of Sociology, University of Oxford
	<b>Instructor of “Applied Statistics—Political Analysis II”</b> 2017–2020 Department of Politics and International Relations, University of Oxford

TEACHING (continued)	<b>Teaching Assistant of “Applied Statistics for Social Scientists”</b> 2017–2019 Department of Sociology, University of Oxford
	<b>College Tutor of “Political Sociology and Social Movement Studies”</b> 2018–2019 St Catherine’s College, University of Oxford
LANGUAGES	<b>Computer</b> R (e.g. tidyverse, data.table, ggplot2, caret) Python (e.g. numpy, pandas, scikit-learn, tensorflow) SQL, Git, Stata, L <sup>A</sup> T <sub>E</sub> X.
	<b>Human</b> German (native), English (fluent), French (conversational).
METHODS TRAINING	<b>Applied Machine Learning</b> , Oxford Internet Institute, 2022.
	<b>Machine Learning for Economists</b> , University of Oxford, 2018, 2022.
	<b>Summer Institute in Computational Social Science (SICSS)</b> , 2020.
	<b>Advanced Methods for Social Media &amp; Textual Data</b> , Essex Summer School, 2020.
	<b>Advanced Quantitative Research</b> , Harvard University, 2019.
POPULAR WRITING (SELECTED)	“Die Bildungskonsequenzen der COVID-19-Pandemie: Erhebliche Lernverluste und wachsende Ungleichheiten,” <i>Population Europe Discussion Paper</i> .
	“The collateral damage to children’s education during lockdown,” <i>VoxEU</i> .
	“How Do School Closures Affect Student Learning? It’s Worse Than You Think,” <i>Population Europe</i> .
	“Inequality of Opportunity in Asia and the Pacific: Clean Energy,” <i>United Nations Policy Report</i> .
ADVISORY WORK (recent)	<b>External Consultant</b> 2023 United Nations Secretariat
	<b>Data Science Advisor</b> 2022 Fund for Guaranteed Income (F4GI)
	<b>Data Scientist &amp; Research Consultant</b> 2021 Ministry of Finance, Government of the Netherlands
	<b>Expert Advisor</b> 2021 Ministry of Education, Culture, and Science, Government of the Netherlands
	<b>Expert Advisor</b> 2021 Department for Education, Open Innovation Team, UK Government
	<b>Freelance Consultant</b> 2021 Max Planck Institute for Demographic Research
WORK EXPERIENCE	<b>Apadana Consult</b> , Amsterdam, Netherlands 2020–Present Data Science Consultant
	<b>United Nations</b> , Bangkok, Thailand 2015–2017 Economic Affairs Consultant

INVITED TALKS (recent)	“Minimizing entry into homelessness following eviction” Chair of Statistics and Data Science, LMU Munich	Aug 02, 2023
	“Learning Loss during the COVID-19 pandemic” MZES Mannheim Zentrum für Europäische Sozialforschung	Oct 18, 2022
	“Controlling COVID-19 in Schools: Lessons Learned and Open Questions” Isaac Newton Institute for Mathematical Sciences, Cambridge	Apr 27, 2022
	“The Impact of Refugee Shelters on Neighbourhood Appeal” Institute for Employment Research	Feb 24, 2022
	“Migration and Diversity Speaker Series” WZB Berlin Social Science Center	Nov 10, 2021
	“Mapping Educational Inequalities During the Pandemic” European Commission Joint Research Centre (ECJR)	Apr 27, 2021
	“Learning Inequality during the COVID-19 Pandemic” University of Zurich Research Colloquium	Apr 27, 2021
	“Learning Inequality during the COVID-19 pandemic” World Bank Education Seminar Series	Jan 14, 2021
	“Demography and the Coronavirus Pandemic: What have we learned?” Max Planck Institute, Population Europe Expert Meeting	Nov 9, 2020
	“Learning Inequality during the COVID-19 Pandemic” Organisation for Economic Cooperation and Development (OECD)	Oct 27, 2020
CONFERENCES	IC2S2 International Conference for Computational Social Science (2023), American Sociological Association Annual Meeting (2020), American Political Science Association Annual Meeting (2019, 2020), Population Association of America (2021), IZA & Jacobs Center Conference (2021), European Consortium for Sociological Research (2020, 2021), Social Science History Association (2020, postponed), European Sociological Association (2019), European Conference on Educational Research (2021), Alternative Futures & Popular Protest (2019).	
SERVICE	Reviewer for <i>Terrorism and Political Violence</i> , <i>Proceedings for the National Academy of Sciences</i> , <i>Social Forces</i> , <i>American Political Science Review</i> , <i>Journal of Ethnic and Migration Studies</i> , <i>Economics &amp; Politics</i> , <i>European Sociological Review</i> , <i>European Societies</i> , and <i>PLOS ONE</i> .	

## References

Professor Michael Biggs

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Professor David Kirk

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