

# Arun Frey

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PROFILE	As a computational sociologist, 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		
ACADEMIC POSITIONS	<b>Leverhulme Centre for Demographic Science</b> , University of Oxford <i>Postdoctoral Researcher</i>	2021–Present	
	<b>Nuffield College</b> , University of Oxford <i>Nonstipendiary Research Fellow</i>	2021–Present	
VISITING POSITIONS	<b>The Alan Turing Institute</b> <i>Data Science Researcher</i>	Winter 2022	
	<b>Data Science for Social Good Fellowship</b> , Carnegie Mellon University <i>Data Science Fellow</i>	Summer 2022	
	<b>Harvard University</b> <i>Visiting Fellow</i>	2020–2021	
EDUCATION	<b>University of Oxford</b> <i>DPhil Sociology</i>	2017–2022	
	<b>University of Oxford</b> <i>MSc Sociology</i>	2014–2015	
	<b>City, University of London</b> <i>BSc Sociology</i>	2011–2014	
PUBLICATIONS	“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). 		
	“Getting Under the Skin: The Impact of Terrorist Attacks on Native and Immigrant Sentiment,” <i>Social Forces</i> , 2021. 		
	“The impact of mass shootings on attitudes towards gun restrictions in the United States,” <i>Socius</i> , 2021 (with David S. Kirk). 		
	“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	<p>“Nowcasting daily population displacement in Ukraine through social media advertising data”, <i>SocArXiv</i>, 2022 (with Douglas Leasure et al).</p> <p>Minimizing entry into homelessness following eviction through predictive modelling”, <i>Working Paper</i>, 2022 (with J Baumann et al).</p> <p>“Shelter in Place: The impact of refugee shelter openings on local property prices and perceptions of neighbourhood quality”, <i>Working Paper</i>, 2022.</p>
MEDIA COVERAGE	<p>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>, and <i>The Hindu</i>.</p>
AWARDS & GRANTS	<p><i>Cozzarelli Prize in recognition of outstanding scientific quality &amp; originality</i>, National Academy of Sciences of the United States of America 2021</p> <p><i>2021 Best Article Award</i>, European Consortium for Sociological Research 2021</p> <p><i>Excellence in Impact Award for data-driven policy interventions</i>, O2RB 2021</p> <p><i>Graduate Scholarship</i>, Department of Sociology, University of Oxford 2019</p> <p><i>Graduate Scholarship</i>, St Catherine’s College, University of Oxford 2018</p> <p><i>Quantitative Methods Scholarship</i>, Oxford Q-Step Centre 2018</p> <p><i>Doctoral Scholarship</i>, German Academic Scholarship Foundation 2018–2021</p> <p><i>Advanced Quantitative Methods DTP Award</i>, UK ESRC 2017–2021</p> <p><i>Doctoral Scholarship</i>, Foundation of German Business 2017–2018</p> <p><i>Travel Grant</i>, German Academic Exchange Service 2016</p>
TEACHING	<p><b>Instructor of “Introduction to coding in R”</b> 2021–Present Department of Sociology, University of Oxford</p> <p><b>Instructor of “Applied Statistics—Political Analysis II”</b> 2017–2020 Department of Politics and International Relations, University of Oxford</p> <p><b>Teaching Assistant of “Applied Statistics for Social Scientists”</b> 2017–2019 Department of Sociology, University of Oxford</p> <p><b>College Tutor of “Political Sociology and Social Movement Studies”</b> 2018–2019 St Catherine’s College, University of Oxford</p>
LANGUAGES	<p><b>Computer</b> R (e.g. tidyverse, data.table, ggplot2), Python (e.g. pandas, scikit-learn, tensorflow), SQL, Git, Stata, L<sup>A</sup>T<sub>E</sub>X.</p> <p><b>Human</b> German (native), English (fluent), French (conversational).</p>
TECHNIQUES	<p>Statistical hypothesis testing, causal inference, regression &amp; classification, machine learning, experimental design, data visualization, data wrangling, web scraping, spatial analysis.</p>

METHODS TRAINING	<p><b>Applied Machine Learning</b>, Oxford Internet Institute, 2022.</p> <p><b>Machine Learning for Economists</b>, University of Oxford, 2018, 2022.</p> <p><b>Summer Institute in Computational Social Science (SICSS)</b>, 2020.</p> <p><b>Advanced Methods for Social Media &amp; Textual Data</b>, Essex Summer School, 2020.</p> <p><b>Applied Statistics Workshop</b>, IQSS, Harvard University, 2019, 2020.</p> <p><b>Advanced Quantitative Research</b>, Harvard University, 2019.</p>	
POPULAR WRITING	<p>“Die Bildungskonsequenzen der COVID-19-Pandemie: Erhebliche Lernverluste und wachsende Ungleichheiten,” <i>Population Europe Discussion Paper</i>.</p> <p>“The collateral damage to children’s education during lockdown,” <i>VoxEU</i>.</p> <p>“How Do School Closures Affect Student Learning? It’s Worse Than You Think,” <i>Population Europe</i>.</p> <p>“Inequality of Opportunity in Asia and the Pacific: Clean Energy,” <i>United Nations Policy Report</i>.</p>	
ADVISORY WORK (recent)	<p><b>Technical Advisor</b> 2022 Fund for Guaranteed Income (F4GI)</p> <p><b>Data Scientist &amp; Research Consultant</b> 2021 Ministry of Finance, Government of the Netherlands</p> <p><b>Expert Advisor</b> 2021 Ministry of Education, Culture, and Science, Government of the Netherlands</p> <p><b>Expert Advisor</b> 2021 Department for Education, Open Innovation Team, UK Government</p> <p><b>Freelance Consultant</b> 2021 Max Planck Institute for Demographic Research</p>	
WORK EXPERIENCE	<p><b>United Nations</b>, Bangkok, Thailand 2015–2017 Economic Affairs Consultant</p> <p><b>European Parliament</b>, Brussels, Belgium 2015 Robert Schuman Trainee</p>	
INVITED TALKS (recent)	<p>“Learning Loss during the COVID-19 pandemic” Oct 18, 2022 MZES Mannheim Zentrum für Europäische Sozialforschung</p> <p>“Controlling COVID-19 in Schools: Lessons Learned and Open Questions” Apr 27, 2022 Isaac Newton Institute for Mathematical Sciences, Cambridge</p> <p>“The Impact of Refugee Shelters on Neighbourhood Appeal” Feb 24, 2022 Institute for Employment Research</p> <p>“Migration and Diversity Speaker Series” Nov 10, 2021 WZB Berlin Social Science Center</p>	

INVITED TALKS	“Mapping Educational Inequalities During the Pandemic” European Commission Joint Research Centre (ECJR)	Apr 27, 2021
(continued)	“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	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>PNAS</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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