

UNIVERSITY OF MILAN

Public selection for recruiting No.1 tenure track researcher(s) (RTT) for scientific-disciplinary group 01/INFO-01 - Informatica, (scientific-disciplinary sector INFO-01/A - Informatica) at the Department of SCIENZE SOCIALI E POLITICHE (announcement published in Official Gazette No. 92 of 19/11/2024) - Competition code 5652

## [Name and Surname] CURRICULUM VITAE

(N.B. CV MUST BE OF UP TO 30 PAGES AND INCLUDE THE DETAILS CANDIDATES CONSIDER USEFUL FOR THE ASSESSMENT.

ALL THE TITLES INSERTED BELOW ARE JUST EXAMPLES THAT CAN BE REPLACED, CHANGED OR COMPLETED)

### PERSONAL DATA (DO NOT INCLUDE YOUR PERSONAL ADDRESS AND LANDLINE OR MOBILE PHONE NUMBER)

SURNAME	GUARISO
NAME	DANIELE
DATE OF BIRTH	04/10/1993

### QUALIFICATIONS

#### DEGREE

- MSc Development Economics, University of Sussex, Brighton, England (September 2015 - August 2016)

- o **Grade:** Distinction
- o **Thesis:** Modelling Ethnic Violence: Socio-economic Roots of Communal Riots in India
- o **Subjects:**
- o Development Economics 1 (Microeconomics)
- o Development Economics 2 (Macroeconomics)
- o Economic Analysis 1 (Microeconomics)
- o Economic Analysis 2 (Macroeconomics)
- o Econometric Methods 1
- o Econometric Methods 2
- o Dissertation in Economics
- o Analytical Methods in Economics
- o Research Methods for Economics

- BA in Political Science and International Relations, Università degli Studi di Pavia, Pavia, Italy (October 2012 - July 2015)

- o **Major:** Economics and International Politics
- o **Grade:** 110 cum laude/110 ~ First Class
- o **Thesis:** Demographic Changes and Wealth Concentration
- o **Subjects:**
- o Sociology
- o Contemporary History
- o Economics
- o Statistics
- o Public Law
- o Political Science
- o English Language
- o Computer Science

<ul style="list-style-type: none"> <li>o European Union Law</li> <li>o Social Demography</li> <li>o History of International Relations</li> <li>o Political Economy/Macroeconomics</li> <li>o International Economics</li> <li>o Comparative Economics System</li> <li>o Economic Sociology</li> <li>o Final Dissertation</li> </ul>
<ul style="list-style-type: none"> <li>- Certificat d'Études Politiques (Mobilité Internationale), Sciences Po Toulouse, Toulouse, France (September 2013 - August 2014)</li> </ul>
<ul style="list-style-type: none"> <li>o <b>Grade:</b> Très Bien~ First Class</li> <li>o <b>Subjects:</b></li> <li>o French Language</li> <li>o Arabic Language</li> <li>o French Culture and Civilization</li> <li>o Economics of Globalization</li> <li>o Economic Geography and Urban Development of the Global South</li> <li>o Public Economics</li> <li>o History of International Relations in the 20th Century</li> <li>o French Institutions and Political Life</li> <li>o International Law</li> <li>o Economic Development Models and Strategies</li> <li>o International Relations</li> <li>o Theories of Europeanization: Institutions, Policies, Society</li> </ul>

**DOCTORAL DEGREE OR EQUIVALENT QUALIFICATION EARNED IN ITALY OR ABROAD / MEDICAL SPECIALISATION DIPLOMA OR EQUIVALENT QUALIFICATION, FOR THE RELEVANT SECTORS, EARNED IN ITALY OR ABROAD**

<ul style="list-style-type: none"> <li>- PhD in Economics, University of Sussex, Brighton, England (January 2017 - April 2021)</li> </ul>
<ul style="list-style-type: none"> <li>o <b>Grade:</b> No corrections</li> <li>o <b>Thesis:</b> Data Science in Political Economy</li> <li>o <b>Subjects:</b></li> <li>o Machine Learning</li> <li>o Network Analysis</li> <li>o Causal Inference</li> <li>o Natural Language Processing</li> <li>o Text Analysis</li> <li>o Web Scraping</li> <li>o Econometrics</li> <li>o Media Behaviour</li> <li>o Public Spending</li> <li>o International Organizations</li> <li>o Logrolling</li> <li>o Information Processing</li> <li>o Immigration</li> <li>o Terrorism</li> <li>o Politicians Behaviour</li> <li>o Public Policy</li> </ul>
<ul style="list-style-type: none"> <li>- Enrichment Scheme, The Alan Turing Institute, London, England (April 2020 - September 2020)</li> </ul>
<ul style="list-style-type: none"> <li>o <b>Subjects:</b></li> <li>o Causal Machine Learning</li> <li>o R Programming</li> <li>o Python Programming</li> <li>o Version Control</li> <li>o Deep Neural Networks</li> <li>o Convolutional Neural Networks</li> </ul>
<ul style="list-style-type: none"> <li>- Visiting Student, The Alan Turing Institute, London, England (October 2019 - March 2020)</li> </ul>

## RESEARCH CONTRACTS, RESEARCH FELLOWSHIP CONTRACTS, POSTDOCTORAL SCHOLARSHIPS OR SIMILAR CONTRACTS

<p>- Senior Research Associate, The Alan Turing Institute (from 01/02/2023 to 30/04/2025)</p>	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Computational Social Science &amp; Sustainable Development</li> <li>○ <b>Tasks:</b> <ul style="list-style-type: none"> <li>○ Develop own research agenda.</li> <li>○ Take on line-managing responsibilities.</li> <li>○ Coordinate multidisciplinary research teams.</li> <li>○ Identify and work towards securing additional sources of income.</li> <li>○ Design and implement knowledge-transfer and capacity-building activities.</li> <li>○ Conduct independent multidisciplinary research using a broad range of methodologies (e.g., agent-based models, text analysis, network analysis, machine learning, econometrics).</li> <li>○ Produce scientific papers and policy reports.</li> <li>○ Present work at international conferences and workshops.</li> <li>○ Engage with the broader community of policymakers and professionals.</li> <li>○ Build collaborations within the Alan Turing Institute and with external partners.</li> <li>○ Conduct internal recruitment.</li> <li>○ Mentor visiting students.</li> </ul> </li> <li>○ <b>Accomplishment:</b> <ul style="list-style-type: none"> <li>○ During this period, my research has been published in <a href="#">Development Engineering</a>, <a href="#">Data &amp; Policy</a>, and <a href="#">World Development</a>, together with other pre-prints available online (see list of publications).</li> <li>○ I supervised the work of two Research Assistants working on a project on <a href="#">AI for health equity</a>, managing the associated funding.</li> <li>○ I presented research at the 2024 and 2023 EPSA General Conference, the 2023 NEPS Conference, the 2023 SISP Conference, AIUK 2024, The Santa Fe Institute, the 2024 WIDER Development Conference, IIASA, the Kenya National Research Festival, and the KIWI AI Summit (the latter five by invitation).</li> <li>○ I engaged with the community of professionals by showcasing research to representatives of the Science and Innovation Network (UK), FCDO, GIZ, CGIAR, UNDP Colombia, UN Peru, The Bank of England, DLUHC, UNDP Surge, Save the Children, Islington Council, and WMCA.</li> <li>○ I built external collaborations with leading international organizations (e.g., The World Bank, and CGIAR).</li> <li>○ I have co-organized a <a href="#">datathon</a> on using AI tools to orient policy priorities towards the SDGs, with hundreds of registered attendees worldwide and speakers from leading international organizations (e.g., IMF, GIFT, UNDP, WB).</li> <li>○ I have co-organized a workshop on AI for health equity, with UK Government officials and representatives from Public Health authorities around the UK.</li> <li>○ I held a tutorial on AI tools for policy prioritization for analysts and public servants from Local Authorities in the UK.</li> <li>○ I obtained additional internal funding to further pursue the project on AI for health inequalities.</li> <li>○ I mentored visiting PhD students at the Turing and facilitated their networking and collaboration opportunities.</li> <li>○ I was on the recruiting panel for 3 different job positions (Research Associate/Assistant levels).</li> </ul> </li> </ul>
<p>- Research Associate, The Alan Turing Institute (from 01/02/2021 to 31/01/2023)</p>	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Agent Computing and AI to Achieve the 2030 Agenda</li> <li>○ <b>Tasks:</b> <ul style="list-style-type: none"> <li>○ Design and implement a global online survey on SDG policy instruments in the 6 official UN languages.</li> <li>○ Conduct multidisciplinary research using a broad range of methodologies (e.g., agent-based models, text analysis, network analysis, machine learning, econometrics).</li> <li>○ Produce scientific papers and policy reports.</li> <li>○ Present work at international conferences and workshops.</li> <li>○ Engage with the broader community of policymakers and professionals.</li> </ul> </li> </ul>

- Build collaborations and shared research projects within the Alan Turing Institute and with external partners.
- Conduct internal recruitment and interviews.
- Support and mentor visiting students at the Institute.
- **Accomplishment:**
- The survey covered more than 7000 respondents and 146 countries. The first results have now been published in [Sustainable Development](#).
- I showcased the research conducted at the Turing at IC2S2 2022, the 2022 EPSA General Conference, the 2022 APSA Annual Meeting, and AIUK 2023.
- I presented my research agenda to representatives of The World Bank, The World Health Organization, Public Health Wales, ObservatorioFiscal, CGIAR - Focus Climate Security, the Welsh Treasury, the Scottish Government, Public Health Scotland, the Office for Health Improvement & Disparities (UK).
- I co-organized a workshop on computational methods for Public Health with data analysts from Public Health Wales.
- I engaged with external partners in shared research projects (see other employments below) fostering my network and the one of the Institute.
- I was on the recruiting panel for 5 different job positions at the Research Associate level (technical assessment of the candidates).

#### TEACHING ACTIVITIES AT ITALIAN OR FOREIGN UNIVERSITIES

-	Lecturer, University of Sussex, Department of Economics (A.Y. 2018 - 2019)
○	Introduction to Statistics: 1st Year Module. (7.5 ECTS)
-	Seminar Tutor, University of Sussex, Department of Economics (A.Y. 2018 - 2019)
○	Introduction to Econometrics: 2nd Year Module. (7.5 ECTS)
-	Seminar Tutor, University of Sussex, Department of Economics (A.Y. 2017 - 2018)
○	Macroeconomics 1: 1st Year Module. (7.5 ECTS)
-	Seminar Tutor, University of Sussex, Department of Economics (A.Y. 2017 - 2018)
○	Introduction to Econometrics: 2nd Year Module. (7.5 ECTS)
-	Seminar Tutor, University of Sussex, Department of Economics (A.Y. 2016 - 2017)
○	Macroeconomics 1: 1st Year Module. (7.5 ECTS)

#### ATTESTED TRAINING OR RESEARCH ACTIVITIES AT QUALIFIED ITALIAN OR FOREIGN INSTITUTIONS

-	Automated Image and Video Analysis with Python, GESIS, Mannheim, Germany (from: 18/09/2023 to: 22/09/2023)
○	<b>Topics:</b>
○	Overview of the existing images-as-data literature in the social sciences
○	Key deep learning concepts relevant to the implementation of computer vision methods
○	Computer vision techniques (object and face detection/recognition, image classification, facial trait analysis, etc.)
○	Implementation of different computer vision techniques in Python
○	Use/adapt different computer vision techniques for own research projects
○	Supervised practical exercises and group project
-	Summer School in Computational Methods for Economists, EPFL, Lausanne, Switzerland (from: 10/06/2019 to: 15/06/2019)
○	<b>Topics:</b>
○	Text Analysis
○	Topic Modelling
○	Agent-based Modelling
-	Cemmap Course: Machine Learning and Econometrics, UCL, London, England (from: 06/06/2018 to: 07/06/2018)
○	<b>Topics:</b>

	<ul style="list-style-type: none"> <li>○ Modern Linear Regression &amp; Inference via Selection</li> <li>○ Trees and Random Forest</li> <li>○ Deep Neural Nets &amp; Aggregation</li> <li>○ Debiased Machine Learning for Causal &amp; Structural Effects</li> </ul>
-	Online Course on Coursera: Introduction to Data Science in Python, University of Michigan, Ann Arbor, Michigan (from: 14/05/2018 to: 13/06/2018)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Understand techniques such as lambdas and manipulating csv files</li> <li>○ Describe common Python functionality and features used for data science</li> <li>○ Query DataFrame structures for cleaning and processing</li> <li>○ Explain distributions, sampling, and t-tests</li> </ul>
-	Online Specialization on Coursera: Python for Everybody, University of Michigan, Ann Arbor, Michigan (from: 27/03/2018 to: 24/05/2018)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Fundamental programming concepts in Python</li> <li>○ Using Python to Access Web Data</li> <li>○ Python Data Structures</li> <li>○ Using Databases with Python</li> <li>○ Retrieving, Processing, and Visualizing Data with Python</li> </ul>
-	Online Course: Introduction to Dynamical Systems and Chaos, Santa Fe Institute, Santa Fe, New Mexico (from: 09/09/2017 to: 18/11/2017)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Iterated Functions</li> <li>○ Differential Equations</li> <li>○ Chaos and the Butterfly Effect</li> <li>○ Bifurcations: Part I (Differential Equations)</li> <li>○ Bifurcations: Part II (Logistic Map)</li> <li>○ Universality</li> <li>○ Phase Space</li> <li>○ Strange Attractors</li> <li>○ Pattern Formation</li> </ul>
-	Oxford Summer School in Economic Networks, Mathematical Institute, University of Oxford, Oxford, England (from: 26/06/2017 to: 30/06/2017)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Industrial strategy and economics complexity</li> <li>○ Mapping urban and regional diversification</li> <li>○ Introduction to networks and graph theory</li> <li>○ Mathematical foundations of networks</li> <li>○ Network visualization with Gephi and R</li> <li>○ Reputational learning and network dynamics</li> <li>○ Matlab tutorials</li> </ul>
-	Cemmap Course: Panel Data Methods, UCL, London, England (from: 11/05/2017 to: 12/05/2017)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ OLS, Random Effects, Fixed Effects, and First Differencing</li> <li>○ Choosing Among Estimators</li> <li>○ Instrumental Variables Estimation</li> <li>○ Estimation Under Sequential Exogeneity</li> <li>○ Random Trends, Random Coefficients, and Unbalanced Panels</li> <li>○ Cluster Samples, Large T, and Cross-Sectional Dependence</li> </ul>
-	Online Course on Coursera: Model Thinking, University of Michigan, Ann Arbor, Michigan (from: 14/03/2017 to: 25/03/2017)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Cellular automata</li> <li>○ Categorical and linear models</li> <li>○ Colonel Blotto game</li> <li>○ Coordination and culture</li> <li>○ Spatial models of decision-making</li> <li>○ Growth models</li> </ul>

	<ul style="list-style-type: none"> <li>○ Lyapunov functions</li> <li>○ Markov models</li> <li>○ Mechanism design</li> <li>○ Path dependence</li> <li>○ Diversity prediction</li> <li>○ Prisoner's dilemma</li> <li>○ Diversity and problem-solving</li> <li>○ Replicator dynamics</li> <li>○ Segregation and peer effect</li> </ul>
-	Online Course: Introduction to Complexity, Santa Fe Institute, Santa Fe, New Mexico (from 17/11/2016 to: 15/12/2016)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Dynamics and Chaos</li> <li>○ Fractals</li> <li>○ Information, Order, and Randomness</li> <li>○ Genetic Algorithms</li> <li>○ Cellular Automata</li> <li>○ Models of Biological Self-Organization</li> <li>○ Models of Cooperation in Social Systems</li> <li>○ Networks</li> <li>○ Scaling in Biology and Society</li> </ul>
-	Online Course on Coursera: Game Theory, Stanford University, Stanford, California (from: 15/11/2016 to: 29/11/2016)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Game Definitions</li> <li>○ Mixed Nash Equilibrium</li> <li>○ Beyond the Nash Equilibrium</li> <li>○ Perfect Information Extensive Form</li> <li>○ Repeated Games</li> <li>○ Coalitional Game Theory</li> <li>○ Bayesian Games</li> </ul>
-	Online Course on Coursera: R Programming, Johns Hopkins University, Baltimore, Maryland (from: 10/10/2016 to: 02/11/2016)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Understand critical programming language concepts in R</li> <li>○ Configure statistical programming software in R</li> <li>○ Make use of R loop functions and debugging tools</li> <li>○ Collect detailed information using R profiler</li> </ul>
-	Summer School in Applied Multivariate Analysis, University of Utrecht, Utrecht, the Netherlands (from: 17/08/2015 to: 28/08/2015)
	<ul style="list-style-type: none"> <li>○ <b>Topics:</b></li> <li>○ Two-sample t-test</li> <li>○ ANOVA</li> <li>○ Multiple linear regression</li> <li>○ ANCOVA</li> <li>○ Advanced multiple linear regression</li> <li>○ MANOVA</li> <li>○ Repeated measures</li> <li>○ Checking assumptions</li> <li>○ Logistic regression</li> <li>○ Principal component analysis</li> </ul>

## RELEVANT PROFESSIONAL EXPERIENCE (IMPLEMENTATION OF PROJECTS)

-	Offsite Research Fellow, UNU-Macau (November 2024 - December 2024)
	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Examining the Interrelationships between the Global Digitalization Index (GDI) and Human Development</li> </ul>

	<ul style="list-style-type: none"> <li>○ <b>Tasks:</b></li> <li>○ Conduct statistical analysis.</li> <li>○ Produce high-quality visualizations.</li> <li>○ Curate replication data.</li> <li>○ Produce a methodological brief.</li> <li>○ Contribute to final whitepaper.</li> <li>○ <b>Accomplishment:</b></li> <li>○ Ongoing.</li> </ul>
-	Consultant, The World Bank (April 2024 - June 2024)
	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Strengthening Diagnostics on Human Capital and Public Finance for Better Development Outcomes: Programmatic Support Platform - Case Study of the Policy Priority Inference (PPI) Tool -</li> <li>○ <b>Tasks:</b></li> <li>○ Compile a dataset on social development programs in Mexico.</li> <li>○ Run simulations based on an agent-based model of policy prioritization (<a href="#">PPI</a>).</li> <li>○ Conduct statistical analysis.</li> <li>○ Curate replication data.</li> <li>○ Liaise with World Bank representatives.</li> <li>○ Prepare dissemination material.</li> <li>○ Present final results to stakeholders.</li> <li>○ Contribute to the final report.</li> <li>○ <b>Accomplishment:</b></li> <li>○ Ongoing.</li> </ul>
-	Consultant, International Center for Tropical Agriculture (February 2023 - April 2023)
	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> The Climate Security Index: A Prototype</li> <li>○ <b>Tasks:</b></li> <li>○ Supervise one Research Assistant working on data acquisition and processing.</li> <li>○ Compile final dataset from different sources.</li> <li>○ Coordinate work across CIAT and The Alan Turing Institute research teams.</li> <li>○ Present research updates to CIAT stakeholders.</li> <li>○ Plan and lead joint meetings.</li> <li>○ Conduct statistical analysis.</li> <li>○ Develop a new methodology for a Climate Security Index combining different techniques (Information Processing, Network Analysis, Extreme-value Theory).</li> <li>○ Curate replication materials (make it available through a public repository in GitHub).</li> <li>○ Contribute to dissemination materials and final reports.</li> <li>○ <b>Accomplishment:</b></li> <li>○ Creation of a new primary dataset.</li> <li>○ Production of two methodological notes (the <a href="#">first</a> presenting the theoretical framework, the <a href="#">second</a> describing the methodology).</li> <li>○ Contribute to a <a href="#">blog post</a> presenting the project.</li> <li>○ Showcase the research at the Intersectionality and Climate Justice in Eastern Africa workshop.</li> </ul>
-	Postdoctoral Researcher, The Institute of Development Studies (IDS) (March 2021 - October 2022)
	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Inequality and Governance in Unstable Democracies: The Mediating Role of Trust</li> <li>○ <b>Tasks:</b></li> <li>○ Compile a new dataset using Optical Character Recognition.</li> <li>○ Develop an online framework to code the data.</li> <li>○ Coordinate the work of three Research Assistants coding the data.</li> <li>○ Conduct statistical analysis.</li> <li>○ Curate replication data.</li> <li>○ Contribute to the final working paper.</li> <li>○ <b>Accomplishment:</b></li> <li>○ Present the work in a workshop on Institutional Legacies of Violent Conflict (organized by UNU-WIDER) and at the 2022 WIDER Development Conference (by invitation).</li> <li>○ Creation of a new primary dataset.</li> <li>○ Production of a <a href="#">UNU-WIDER Working Paper</a>. This has been further developed into a research article now published in <a href="#">Comparative Political Studies</a>.</li> </ul>

-	Postdoctoral Researcher, Global Alliance for Improved Nutrition (GAIN) & IDS (October 2021 - March 2022)
	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Conceptualisation of Earmarked Taxes to Support Food Fortification</li> <li>○ <b>Tasks:</b></li> <li>○ Contribute to the development of methodology and theoretical framework for intervention.</li> <li>○ Lead case studies.</li> <li>○ Conduct online interviews with GAIN country offices (India, Kenya, Bangladesh, Ethiopia, Pakistan, Tanzania, Nigeria).</li> <li>○ Co-lead tax estimation.</li> <li>○ Liaise with stakeholders and funders (GAIN).</li> <li>○ Contribute to the final report.</li> <li>○ <b>Accomplishment:</b></li> <li>○ Production of a GAIN report.</li> </ul>
-	Research Assistant, The Alan Turing Institute & UNDP Uruguay (October 2019 - March 2020)
	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Policy Priority Inference for the Sustainable Development of Uruguay</li> <li>○ <b>Tasks:</b></li> <li>○ Compile a dataset on SDG indicators for Uruguay.</li> <li>○ Run simulations based on an agent-based model of policy prioritization (<a href="#">PPI</a>).</li> <li>○ Conduct statistical analysis.</li> <li>○ Curate replication data (make it available through a public repository in GitHub).</li> <li>○ Translate code into different programming languages.</li> <li>○ Contribute to the final report.</li> <li>○ <b>Accomplishment</b></li> <li>○ Creation of a new primary dataset.</li> <li>○ Production of a UNDP report.</li> </ul>
-	Consultant, Oxford Policy Management & IDS (June 2019 - January 2020)
	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Compliance of Edible Oil and Salt Fortification with National Program Standards in Bangladesh: Implementation Research to Inform Quality Improvement Efforts</li> <li>○ <b>Tasks:</b></li> <li>○ Develop the survey tool (special attention to the behavioural component we wanted to capture -i.e., non-compliance with institutional norms-).</li> <li>○ Conduct fieldwork in Dhaka (Bangladesh) to train the enumerators and supervise pilot interviews.</li> <li>○ Monitor data collection.</li> <li>○ Help frame the research questions.</li> <li>○ Analyse the primary data.</li> <li>○ Curate replication files.</li> <li>○ Liaise with stakeholders and funders (GAIN).</li> <li>○ Write the final report.</li> <li>○ <b>Accomplishment:</b></li> <li>○ Creation of a new primary dataset.</li> <li>○ Production of a GAIN report, further developed (following additional funds) into a research paper now published in <a href="#">Food Policy</a>.</li> </ul>
-	Consultant, International Growth Centre (April 2019 - August 2019)
	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Identifying Pathways to Economic Development through India's South-south Knowledge Transfers: Evidence from Cotton Apparel in Tanzania</li> <li>○ <b>Tasks:</b></li> <li>○ Develop the survey instrument (special attention to capturing local network linkages).</li> <li>○ Instruct enumerators.</li> <li>○ Monitor data collection.</li> <li>○ Conduct statistical analysis.</li> <li>○ Curate replication files.</li> <li>○ Write the final report.</li> <li>○ <b>Accomplishment:</b></li> <li>○ Creation of a new primary dataset.</li> <li>○ Production of an IGC report.</li> <li>○ Further project development led to the successful application for a grant provided by UNU-WIDER. The study was then published as a <a href="#">UNU-WIDER Working Paper</a>. Additional</li> </ul>

	research on the same topic is now a <a href="#">chapter</a> in a book on the sustainable development of Tanzania recently published by Oxford University Press.
- Intern, The Alan Turing Institute (June 2018 - September 2018)	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Uncovering Hidden Cooperation in Democratic Institutions</li> <li>○ <b>Tasks:</b></li> <li>○ Undertake training in R and Python programming, network analysis, machine learning, agent-based simulations, text analysis, and web scraping, which I employed to work on the research project.</li> <li>○ Weekly updates to supervisors.</li> <li>○ Engage and present own project to other interns from a broad range of disciplines (Economics, Data Science, Physics, Mathematics, Psychology, Engineering, Political Science).</li> <li>○ <b>Accomplishment:</b></li> <li>○ Creation of a new primary dataset.</li> <li>○ Production of a working paper.</li> <li>○ Final presentation to the whole Institute.</li> </ul>
- Research Assistant, Università degli Studi di Pavia & Università di Pisa (September 2016 - January 2017)	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Human Rights Abuses as ‘Unfreedoms’: The Dark Side of MNE’s Operations in Developing Countries</li> <li>○ <b>Tasks:</b></li> <li>○ Compile dataset on firms’ corporate social responsibility from different sources.</li> <li>○ Curate data repository.</li> <li>○ Conduct statistical analysis.</li> <li>○ <b>Accomplishment</b></li> <li>○ Creation of a new primary dataset.</li> </ul>
- Research Assistant, Università degli Studi di Pavia (September 2016 - January 2017)	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Creating Economic Space for Social Innovation</li> <li>○ <b>Tasks:</b></li> <li>○ Clean survey data on social innovation in the EU.</li> <li>○ Curate data repository.</li> <li>○ Conduct statistical analysis.</li> <li>○ <b>Accomplishment:</b></li> <li>○ Creation of a new primary dataset.</li> </ul>

## RESEARCH GRANTS

- UK Government Digital Access Programme (December 2024 - March 2025)	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Developing and implementing the Policy Priority Inference (PPI) computational framework to assist decision-makers in Kenya.</li> <li>○ <b>Award:</b> KES 2,400,000.</li> <li>○ <b>Research Team:</b> Dr Daniele Guariso, Dr Lawrence Nderu, Mr Rajab I. Mbaruku, Dr Winston Ojenge, Madam Mary N. Kerema, OGW, Dr Marco Carreras, and Dr Omar A. Guerrero.</li> </ul>
- The Alan Turing Institute (September 2023 - March 2024)	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Estimating the Impact of Public Spending on Health Equity.</li> <li>○ <b>Award:</b> £ 28,000.</li> <li>○ <b>Research Team:</b> Dr Daniele Guariso, Prof Alisha Davies, and Dr Omar A. Guerrero.</li> </ul>
- Global Alliance for Improved Nutrition (October 2021 - March 2022)	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Conceptualisation of Earmarked Taxes to Support Food Fortification and Finance Premix Procurement for Fortified Foods.</li> <li>○ <b>Award:</b> \$ 84,780.</li> <li>○ <b>Research Team:</b> Dr Daniele Guariso, Dr Amrita Saha, Dr Marco Carreras, Dr Giulia Mascagni, and Dr Giovanni Occhiali.</li> </ul>
- UNU-WIDER (October 2019 - June 2020)	<ul style="list-style-type: none"> <li>○ <b>Research Project:</b> Trade, Technology Demand &amp; Linkages: Opportunities &amp; Challenges in the Tanzanian Textiles &amp; Garments Sector.</li> </ul>

- **Award:** \$ 10,000.
- **Research Team:** Dr Daniele Guariso, Dr Amrita Saha, Dr André Castro, and Dr Marco Carreras.

## SPEAKING AT NATIONAL AND INTERNATIONAL CONFERENCES AND CONVENTIONS

- Kenya Innovation Agency's KIW AI Summit, The Edge Convention Center (28/11/2024)
- Postdocs in Complexity: Global Summit, The Santa Fe Institute (23/09/2024-26/09/2024)
- Kenya National Research Festival, The Edge Convention Center (19/08/2024-23/08/2024)
- European Political Science Association General Conference, Cologne Mediapark (Komed) (04/07/2024-06/07/2024)
- Workshop on Complexity Science and Competition Law and Policy, International Institute for Applied Systems Analysis (24/05/2024)
- UNU-WIDER Development Conference: The World at Crossroads, UNU-WIDER Maputo (14/05/2024-16/05/2024)
- AIUK, Queen Elizabeth II Centre (19/03/2024-20/03/2024)
- Workshop on AI for Well-being Economies and Equity, The Alan Turing Institute (15/01/2024)
- Italian Political Science Association Conference, Università di Genova (14/09/2023-16/09/2023)
- AIUK, Queen Elizabeth II Centre (21/03/2023-22/03/2023)
- Intersectionality and Climate Justice in Eastern Africa, Online Event, University of Leeds (09/08/2023)
- Emergent Political Economies Postdoctoral Conference, The Santa Fe Institute (03/08/2023-04/08/2023)
- The Jan Tinbergen European Peace Science Conference, Università di Bologna (26/06/2023-28/06/2023)
- European Political Science Association General Conference, Technology and Innovation Centre, University of Strathclyde (22/06/2023-24/06/2023)
- American Political Science Association Annual Meeting, Palais des Congrès de Montréal (15/09/2022-18/09/2022)
- European Political Science Association General Conference, Prague Congress Centre (23/06/2022-25/06/2022)
- International Conference on Computational Social Science, The University of Chicago Booth School of Business (19/07/2022-22/07/2022)
- UNU-WIDER Development Conference: The Puzzle of Peace, UNU-WIDER Helsinki (16/05/2022-17/05/2022)
- Workshop on Institutional Legacies of Violent Conflict, UNU-WIDER Helsinki (12/05/2022-13/05/2022)
- Data for Policy 2020, Online Event (15/09/2020-17/09/2020)
- PhD Conference, University of Sussex Business School (18/09/2020)
- International Conference on Computational Social Science, University of Amsterdam (17/07/2019-20/07/2019)
- POLTEXT, Hungarian Academy of Sciences (09/05/2018-11/05/2018)

## SCHOLARSHIPS AND PRIZES

-	The Alan Turing Institute (2019)
○	Enrichment Scheme
-	University of Sussex, Department of Economics (2017 - 2020)
○	PhD Departmental Scholarship
-	Rotaract & Rotary International (2016)
○	Premio Università 2015 Rotaract (Prize for outstanding academic performance in the region (Lombardy, Italy))
-	Erasmus Programme (2013 - 2014)
○	Full Scholarship

## FELLOWSHIPS

- Associate Fellow of the Higher Education Academy (Advance HE)
- Member of the Italian Political Science Association (SISP)

## SCIENTIFIC PRODUCTION

### SCIENTIFIC PUBLICATIONS

- 1) Guariso D., Adewoyin R., Aguilar G., Guerrero A. O., and A. Davies (2024), "A Generalized LLMs Framework to Support Public Health Financing through Probabilistic Predictions and Uncertainty Quantification", SSRN preprint, SSRN:5062827 (<https://papers.ssrn.com/abstract=5062827>).
- 2) Guerrero A. O., Guariso D., and G. Castañeda (2024), "Perceived adequacy of policy instruments reveals weak targets in the Sustainable Development Goals", *Sustainable Development*, 32(6), 6836-6863 (<https://doi.org/10.1002/sd.3044>).
- 3) Costalli S., Guariso D., Justino P., and A. Ruggeri (2024), "The violent legacy of fascism: Evidence from Italy", *Comparative Political Studies*, 00104140241252089 (<https://doi.org/10.1177/00104140241252089>).
- 4) Saha A., Castro A., Carreras M., and D. Guariso (2024), "Trade, technology, and local linkages in the Tanzanian textiles and garments sector", *Sustaining Tanzania's Economic Development: A Firm and Household Perspective*, 61 (<https://doi.org/10.1093/oso/9780192885746.003.0004>).
- 5) Castro-Gonzalez L., Chakraborty S., Margetts H., Rajpal H., Guariso D., and J. Bright (2024), "Who is driving the conversation? Analysing the nodality of British MPs and journalists on Twitter", *arXiv preprint*, arXiv:2402.08765v2 (<https://doi.org/10.48550/arXiv.2402.08765>).
- 6) Guariso D., Aguilar G., Adewoyin R., Guerrero O. A., and A. Davies (2024), "Budgetary Allocation and Health for All: Computational Methods for Population Well-being", *SSRN preprint*, SSRN:4748673 (<https://dx.doi.org/10.2139/ssrn.4748673>).
- 7) Guariso D., Guerrero A. O., and G. Castañeda (2023), "Automatic SDG Budget Tagging: Building Public Financial Management Capacity through Natural Language Processing", *Data & Policy*, 5, e31 (<https://doi.org/10.1017/dap.2023.28>).
- 8) Guariso D., Guerrero A. O., and G. Castañeda (2023), "Budgeting for SDGs: Quantitative Methods to Assess the Potential Impacts of Public Expenditure", *Development Engineering*, 8, 100113 (<https://doi.org/10.1016/j.deveng.2023.100113>).
- 9) Guerrero A. O., Guariso D., and G. Castañeda (2023), "Aid Effectiveness in Sustainable Development: A Multidimensional Approach", *World Development*, 168, 106256 (<https://doi.org/10.1016/j.worlddev.2023.106256>).
- 10) Guerrero O. A., Guariso D., Liebig T., Minoarivelo, O., Craparo, A., and A. Basel (2023), "Methodological Note for the Climate and Security index", *CGIAR Focus Climate Security* (<https://hdl.handle.net/10568/132115>).
- 11) Liebig T., Guariso D., Craparo A., Basel A., Madurga Lopez I., Pacillo G., Laderach P., and A. O. Guerrero (2022), "The Climate Security Index - A Methodological Note", *CGIAR Focus Climate Security* (<https://hdl.handle.net/10568/127547>).
- 12) Saha A., Guariso D., Mbuya M. N. N., and A. Ebata (2021), "Firm's Compliance Behaviour towards Food Fortification Regulations: Evidence from Oil and Salt Producers in Bangladesh", *Food Policy*, 104, 102143 (<https://doi.org/10.1016/j.foodpol.2021.102143>).
- 13) Saha A., Castro A., Carreras M., and D. Guariso (2020), "Trade, Technology, and Absorptive Capacity: Firm-level Evidence across Geographical Clusters in the Tanzanian Textiles and Apparel Sector", *WIDER Working Paper 2020/96*, UNU-WIDER (<https://doi.org/10.35188/UNU-WIDER/2020/853-5>).
- 14) Saha A., Guariso D., Castro A., and B. Shepherd (2019), "Technology Demand and the Role of South-south Trade in Tanzania's Textiles and Apparel: Examining Linkages with India", *F-19029-TZA-1*, International Growth Centre (<http://dx.doi.org/10.13140/RG.2.2.35769.19042>).
- 15) Guariso D. (2018), "Terrorist Attacks and Immigration Rhetoric: A Natural Experiment on British MPs", *Working Paper Series No. 1218*, Department of Economics, University of Sussex Business School (<https://ideas.repec.org/p/sus/susewp/1218.html>).

## WORK IN PROGRESS

- “From Complexity to Clarity: A Climate Security Fragility Measure for Policymaking”, with Liebig T., Guerrero A. O., Basel A., Minoarivelo O., Scartozzi C., Madurga I., Craparo A., Laderach P., and G. Pacillo, **Under Review**.
- “Technological Capabilities and the Role of South-South Trade Links: Evidence from Tanzania’s Textiles and Apparel Sector”, with Saha A., and A. Castro.
- “CPUQ: Categorical Perplexity Based Uncertainty Quantification with Language Models”, with Adewoyin R., Davies A., Guerrero A. O., and G. Robles.
- “A Generalized LLM Framework to Support Public Health Financing”, with Adewoyin R., Davies A., Guerrero A. O., and G. Robles, **Under Review**.
- “Media Coverage Shifts and Policy Overreactions: Evidence on Government Serial Processing and Information Saturation”, with A. O. Guerrero.
- “Strategic Voting in the United Nations General Assembly”, with Guerrero A. O., and U. Matter.
- “Paying the Piper: Government Advertising and Media Bias”, with Beltran A., and A. O. Guerrero.
- “The Violent Legacy of Armed Resistance: Italian Left-wing Terrorism during the Years of Lead”, with Costalli S., and A. Ruggeri.
- “Political Violence in a Young Democracy: Years of Lead (YoD) Data on Italy 1969-1988”, with Costalli S., Justino P., and A. Ruggeri, **Under Review**.

Date

19/12/2024

Place

Milan (MI)