

DANIELE GUARISO

EMPLOYMENT HISTORY

- Euro-Mediterranean Center on Climate Change (CMCC Foundation)** *Since May 2025*
Junior Scientist
Machine Learning / Artificial Intelligence Programme
- The Alan Turing Institute** *February 2023 - June 2025*
Senior Research Associate
Research Project: *Computational Social Science & Sustainable Development*
- West Midlands Combined Authority** *January 2025 - March 2025*
Consultant through Scientia Socialis Ltd
Research Project: *Data Readiness Review for the Adoption of Policy Priority Inference by the West Midlands Combined Authority*
- UNU-Macau** *November 2024 - December 2024*
Offsite Research Fellow
Research Project: *Examining the Interrelationships between the Global Digitalization Index (GDI) and Human Development*
- The World Bank** *April 2024 - June 2024*
Consultant
Research Project: *Strengthening Diagnostics on Human Capital and Public Finance for Better Development Outcomes: Programmatic Support Platform - Case Study of the Policy Priority Inference (PPI) Tool -*
- International Center for Tropical Agriculture** *February 2023 - April 2023*
Consultant
Research Project: *The Climate Security Index: A Prototype*
- The Alan Turing Institute** *February 2021 - February 2023*
Research Associate
Research Project: *Agent Computing and AI to Achieve the 2030 Agenda*
- The Institute of Development Studies (IDS)** *March 2021 - October 2022*
Postdoctoral Researcher
Research Project: *Inequality and Governance in Unstable Democracies: The Mediating Role of Trust*
- Global Alliance for Improved Nutrition (GAIN) & IDS** *October 2021 - March 2022*
Postdoctoral Researcher
Research Project: *Conceptualisation of Earmarked Taxes to Support Food Fortification*
- The Alan Turing Institute & UNDP Uruguay** *October 2019 - March 2020*
Research Assistant
Research Project: *Policy Priority Inference for the Sustainable Development of Uruguay*
- Oxford Policy Management & IDS** *June 2019 - January 2020*
Consultant
Research Project: *Compliance of Edible Oil and Salt Fortification with National Program Standards in Bangladesh: Implementation Research to Inform Quality Improvement Efforts*
- International Growth Centre** *April 2019 - August 2019*
Consultant
Research Project: *Identifying Pathways to Economic Development through India's South-south Knowledge Transfers: Evidence from Cotton Apparel in Tanzania*
- The Alan Turing Institute** *June 2018 - September 2018*
Intern
Research Project: *Uncovering Hidden Cooperation in Democratic Institutions*
- Università degli Studi di Pavia & Università di Pisa** *September 2016 - January 2017*
Research Assistant

Research Project: *Human Rights Abuses as ‘Unfreedoms’: The Dark Side of MNE’s Operations in Developing Countries*

Università degli Studi di Pavia

September 2016 - January 2017

Research Assistant

Research Project: *Creating Economic Space for Social Innovation*

EDUCATION

University of Sussex, Brighton, England

January 2017 - April 2021

PhD in Economics

Thesis: *Data Science in Political Economy*

The Alan Turing Institute, London, England

April 2020 - September 2020

Enrichment Scheme

The Alan Turing Institute, London, England

October 2019 - March 2020

Visiting Student

University of Sussex, Brighton, England

September 2015 - August 2016

MSc Development Economics

Grade: *Distinction*

Thesis: *Modelling Ethnic Violence: Socio-economic Roots of Communal Riots in India*

Università degli Studi di Pavia, Pavia, Italy

October 2012 - July 2015

BA in Political Science and International Relations

Major: *Economics and International Politics*

Grade: *110 cum laude/110 ~ First Class*

Thesis: *Demographic Changes and Wealth Concentration*

Sciences Po Toulouse, Toulouse, France

September 2013 - August 2014

Certificat d’Etudes Politiques Mobilité Internationale

Grade: *Très Bien ~ First Class*

ADDITIONAL TRAINING

GESIS, Mannheim, Germany

September 2023

Automated Image and Video Analysis with Python

The Alan Turing Institute, London, England

June 2021

Reinforcement Learning - From Theory to Practice Summer School

EPFL, Lausanne, Switzerland

June 2019

Summer School in Computational Methods for Economists

UCL, London, England

Spring 2018

Cemmap Course: Machine Learning and Econometrics

University of Michigan, Ann Arbor, Michigan

Spring 2018

Online Course on Coursera: Introduction to Data Science in Python

University of Michigan, Ann Arbor, Michigan

Spring 2018

Online Specialization on Coursera: Python for Everybody

Santa Fe Institute, Santa Fe, New Mexico

Fall 2017

Online Course: Introduction to Dynamical Systems and Chaos

Mathematical Institute, University of Oxford, Oxford, England

June 2017

Oxford Summer School in Economic Networks

UCL, London, England

Spring 2017

Cemmap Course: Panel Data Methods

University of Michigan, Ann Arbor, Michigan

Spring 2017

Online Course on Coursera: Model Thinking

Santa Fe Institute, Santa Fe, New Mexico

Fall 2016

Online Course: Introduction to Complexity

Stanford University, Stanford, California

Fall 2016

Online Course on Coursera: Game Theory

Johns Hopkins University, Baltimore, Maryland

Fall 2016

Online Course on Coursera: R Programming

University of Utrecht, Utrecht, the Netherlands

August 2015

Summer School in Applied Multivariate Analysis

TEACHING EXPERIENCE

University of Sussex, Department of Economics

A.Y. 2018 - 2019

Lecturer

Introduction to Statistics: 1st Year Module.

University of Sussex, Department of Economics

A.Y. 2018 - 2019

Seminar Tutor

Introduction to Econometrics: 2nd Year Module.

University of Sussex, Department of Economics

A.Y. 2017 - 2018

Seminar Tutor

Macroeconomics 1: 1st Year Module.

University of Sussex, Department of Economics

A.Y. 2017 - 2018

Seminar Tutor

Introduction to Econometrics: 2nd Year Module.

University of Sussex, Department of Economics

A.Y. 2016 - 2017

Seminar Tutor

Macroeconomics 1: 1st Year Module.

ARTICLES, WORKING PAPERS AND REPORTS

1. Costalli S., **Guariso D.**, Justino P., and A. Ruggeri (2025), "Political violence in a polarized democracy: Years of Lead (YoL) data on Italy 1969–1988", *Journal of Peace Research*, *Forthcoming*.
2. **Guariso D.**, Adewoyin R., Aguilar G., Guerrero A. O., and A. Davies (2025), "A generalized LLMs framework to support public health financing through probabilistic predictions and uncertainty quantification", *Artificial Intelligence in Medicine*, 103203.
3. 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.
4. Costalli S., **Guariso D.**, Justino P., and A. Ruggeri (2024), "The violent legacy of fascism: Evidence from Italy", *Comparative Political Studies*, 00104140241252089.
5. 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.
6. 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.
7. **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.
8. **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.
9. **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.

10. Guerrero A. O., **Guariso D.**, and G. Castañeda (2023), “Aid Effectiveness in Sustainable Development: A Multidimensional Approach”, *World Development*, 168, 106256.
11. 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*.
12. 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*.
13. 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.
14. 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.
15. 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.
16. **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.

WORK IN PROGRESS

- “A Complex System View of the Climate-Security Nexus: Evidence from Sub-Saharan Africa”, with De Carlo M., Pacillo G., and O. A. Guerrero.
- “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.
- “Media Coverage Shifts and Policy Overreactions: Evidence on Government Serial Processing and Information Saturation”, with A. O. Guerrero, *Under Review*.
- “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, *Under Review*.
- “The Violent Legacy of Armed Resistance: Italian Left-wing Terrorism during the Years of Lead”, with Costalli S., and A. Ruggeri.

CONFERENCES & WORKSHOPS

2025 Postdocs in Complexity Conference

The Santa Fe Institute

2025

UK Digital Access Programme: SDC Project Dissemination Workshop

The Edge Convention Center

UK-Kenya AI Challenge Fund: Monitoring, Evaluation, and Learning Workshop

Nairobi EKA Hotel

Mini-Workshop on UK-Kenya AI Challenge Fund

The Alan Turing Institute

Kenya AI Ethics Implementation Framework Workshop

Online Event, Dedan Kimathi University of Technology

Kenya Innovation Agency’s KIW AI Summit

The Edge Convention Center

2024

Postdocs in Complexity: Global Summit

The Santa Fe Institute

Kenya National Research Festival

The Edge Convention Center

European Political Science Association General Conference

Cologne Mediapark (Komed)

Workshop on Complexity Science and Competition Law and Policy
International Institute for Applied Systems Analysis
UNU-WIDER Development Conference: The World at Crossroads
UNU-WIDER Maputo
AIUK
Queen Elizabeth II Centre
Workshop on AI for Well-being Economies and Equity
The Alan Turing Institute

Italian Political Science Association Conference 2023

Università di Genova

AIUK

Queen Elizabeth II Centre

Intersectionality and Climate Justice in Eastern Africa

Online Event, University of Leeds

Emergent Political Economies Postdoctoral Conference

The Santa Fe Institute

The Jan Tinbergen European Peace Science Conference

University of Bologna

European Political Science Association General Conference

Technology and Innovation Centre, University of Strathclyde

American Political Science Association Annual Meeting 2022

Palais des Congrès de Montréal

European Political Science Association General Conference

Prague Congress Centre

International Conference on Computational Social Science

The University of Chicago Booth School of Business

UNU-WIDER Development Conference: The Puzzle of Peace

UNU-WIDER Helsinki

Workshop on Institutional Legacies of Violent Conflict

UNU-WIDER Helsinki

Data for Policy 2020

Online Event

PhD Conference

University of Sussex Business School

International Conference on Computational Social Science 2019

University of Amsterdam

POLTEXT 2018

Hungarian Academy of Sciences

RESEARCH GRANTS

UK Government Digital Access Programme December 2024 - March 2025

Developing and implementing the Policy Priority Inference (PPI) computational framework to assist decision-makers in Kenya (KES 2,400,000).

With Dr Lawrence Nderu, Mr Rajab I. Mbaruku, Dr Winston Ojenge, Madam Mary N. Kerema, OGW, Dr Marco Carreras, and Dr Omar A. Guerrero.

The Alan Turing Institute September 2023 - March 2024

Estimating the Impact of Public Spending on Health Equity (£ 28,000).

With Prof Alisha Davies, and Dr Omar A. Guerrero.

Global Alliance for Improved Nutrition October 2021 - March 2022

Conceptualisation of Earmarked Taxes to Support Food Fortification and Finance Premix Procurement for Fortified Foods (\$ 84,780).

With Dr Amrita Saha, Dr Marco Carreras, Dr Giulia Mascagni, and Dr Giovanni Occhiali.

SCHOLARSHIPS AND PRIZES

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

FELLOWSHIPS

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

LANGUAGE AND COMPUTER SKILLS

Programming & Software	Python, R, STATA, MATLAB, GitHub, LaTeX, SPSS, Gephi, Method52, NetLogo.
Languages	Italian (native), English (proficient), French (DALF C1), Spanish (basic).

OTHER ACTIVITIES

- Multicultural experience through travels abroad in Austria, Bangladesh, Canada, China, Croatia, Cuba, Czech Republic, Egypt, France, Finland, Germany, Greece, Hungary, Ireland, Jordan, Kenya, Malta, Montenegro, Morocco, Mozambique, Mexico, the Netherlands, Portugal, Spain, UK, USA, Switzerland, Turkey, Tunisia.
- Sports: Boxing, athletics and swimming.
- Hobbies: Art history, comics, drawing, cooking, travels.

REFERENCES

Dr. Omar A. Guerrero
Head of Computational Social Science Research
The Alan Turing Institute
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✉ oguerrero@turing.ac.uk

Prof. Patricia Justino
Deputy Director
UNU-WIDER
Katajanokanlaituri 6 B, Helsinki FI-00160, Finland
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Prof. Andrea Ruggeri
Professor of Political Science
Università degli Studi di Milano
Via Festa del Perdono 7, Milan 20122, Italy
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Research Fellow
Institute of Development Studies
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