

Joan E. Madia

Nuffield Department of Primary Care
Health Sciences
Radcliffe Observatory Quarter, OX2 6GG
Medical Sciences Division
University of Oxford

✉ joan.madia@phc.ox.ac.uk
🌐 Personal Page
🏛️ University Page
🐦 JoanEMadia
☎ +44 07908 150186

Research Fields

Health and Well-Being, Healthcare Management, Policy Evaluation, Cost-effectiveness, Causal Inference, & Clinical Informatics

Academic Appointments

- **Senior Research Fellow in Health Economics** 2024–present
Nuffield Dept. of Primary Care Health Sciences, University of Oxford, UK
- **Affiliated Researcher** 2017–present
Institute for the Evaluation of Public Policies (FBK-IRVAPP),
Bruno Kessler Foundation, Italy
- **Research Fellow in Health Economics** 2021–2024
Nuffield Dept. of Primary Care Health Sciences, University of Oxford, UK
- **Visiting Fellow** Apr.–Jul. 2024
Department of Economics, University of Verona, Italy
- **Research Collaborator** Jan.–Mar. 2024
Department of Statistics and Quantitative Methods,
Milano Bicocca University, Italy
- **Research Fellow** 2021–2022
Climate change, Finance, and Global Health Project
Dept. of Economics, Ca' Foscari University, Venice, Italy
- **Research Fellow** 2019–2021
Excluded lives Project
Dept. of Education, University of Oxford, UK
- **Visiting Researcher** 2020
SOFI, University of Stockholm, Sweden
- **Research Assistant** 2017–2018
Institute for New Economic Thinking (INET),
Oxford Martin School, University of Oxford, UK
- **Junior Researcher** 2015–2017
Research Institute for the Evaluation of Public Policies
Bruno Kessler Foundation, Italy

Education

- **Ph.D. Demography and Data Science** 2022
Nuffield College, University of Oxford, UK
- **MA in Economics and Sociology** 2017
University of Trento, Italy
Final grade: 110/110
- **BA in Economics and Sociology** 2015
University of Trento, Italy
Final grade: 110/110 cum laude

Teaching Experience

- **Health Econometrics and Policy Evaluation Workshop** 2022–2024
Nuffield Dept. of Primary Health Care, University of Oxford
Advanced econometric methods for health policy evaluation
- **Master in Economics of Health Care** 2023–2024
Dept. of Continuing Education, University of Oxford
Module on Policy Evaluation and Econometrics
- **Analytical Skills for Business Research** 2023
Brunel Business School London
Statistical analysis and research methods for Business Research
- **Healthcare Policy and Programme Evaluation** 2023
Brunel Business School London
Methods for evaluating healthcare policies
- **MSc Advanced Quantitative Methods. Stata Lab** Jan.–Mar. 2022
Dept. of Sociology, University of Oxford
Hands-on training in Stata for advanced quantitative data analysis
- **Interrupted Time Series and Difference-in-Differences Methods** Mar. 2022
Nuffield Dept. of Primary Health Care, University of Oxford
Training on implementing time series and difference-in-differences methods using R for policy evaluations
- **Statistics for the Human Science Degree** 2018–2020
St Benet's Hall and Mansfield College, University of Oxford
Statistical concepts and methods for human sciences, including hypothesis testing and regression analysis
- **Statistics and Social Research, Oxford-Stanford Exchange Programme** 2019
Stanford House, University of Oxford, Stanford University
Statistical techniques for social research, including survey analysis and experimental design
- **Advanced Quantitative Methods. Stata Lab** Oct.–Jan. 2018
Dept. of International Development, University of Oxford
Advanced quantitative methods using Stata
- **Teaching Assistant in Quantitative Methods for BSc in Sociology and International Relations** 2015–2016
Dept. of Sociology, University of Trento, Italy
Assisting in the teaching of quantitative methods for undergraduate students

PhD and Master Students Supervision

- Co-supervisor: Mingze Xu (2024-2027), DPhil at Nuffield Department of Primary Health Care Sciences, University of Oxford
- Co-supervisor: Catharina Savelkoul (2023-2026), DPhil at Nuffield Department of Primary Health Care Sciences, University of Oxford
- Co-supervisor: Mayar Mina Najat (2021-2025), DPhil at Nuffield Department of Primary Health Care Sciences, University of Oxford
- Co-supervisor: Luigi Boggian (2020-2024), PhD at Louvain University, Belgium
- Supervised four Master thesis students at the University of Verona
- Supervised two Master thesis at Ca'Foscari Venice University

Publications in Health and Well-being

- Boggian, L., Madia, J.E., & Nicodemo, C. (2024). “Immigration and Disparities in Prescriptions for CVD Risk Factors Treatments.” *Forthcoming at Economics and Human Biology*.
- Madia, J.E., Baek, J.Y., & Shin, A. (2024). “Transforming Public Health and Economic Outcomes by Reducing Risky Behaviors: The Potential for South Korea.” *Forthcoming at Discovery Social Sciences and Health*.
- Moscone, F., Madia, J.E., Nicodemo, C., An, J.C., & Lee, C. (2024). “Addressing Fiscal Uncertainty: Proposing Policy Pathways for Enhancing Economic Growth and Fertility Rates in South Korea.” *Research in Economics*, 100975.
- Boggian, L., Madia, J.E., Moscone, F., & Orso, C. (2024). “Immigrant Status and Likelihood of Opioid Treatment. Lessons from Spain’s National Health Service.” *Journal of Economic Behaviour and Organisation*, 227, 106754.
- Bazzoli, M., Madia, J.E., Nicodemo, C., & Podesta, F. (2023). “Immigration and natives health outcomes. Evidence from Sixteen European countries.” *Economic Modelling*, 131, 106627.
- Madia, J.E., Moscone, F., & Nicodemo, C. (2023). “Studying Informal Care during the Pandemic: Mental Health, Gender, and Job status.” *Economics and Human Biology*, 50, 101245.
- Madia, J.E., Moscone, F., & Nicodemo, C. (2023). “Elderly, COVID-19 and Informal Care: Evidence from the UK.” *Journal of Economic Behavior and Organization*, 205, 468-488.
- Hervy, C., Cavalli, N., Madia, J.E., & Nicodemo, C. (2022). “Diverging Mental Health after Brexit: Evidence from a Longitudinal Survey.” *Social Science and Medicine*, 302, 114993.
- Obsuth, I., Madia, J.E., Thompson, I., Daniels, H., & Murray, A.L. (2022). “The Impact of School Exclusion in Childhood on Health Outcomes in Adulthood: Estimating Causal Effects using Inverse Probability of Treatment Weighting.” *British Journal of Educational Psychology*. <https://doi.org/10.1111/bjep.12656>.

Publications in Methods and Open Science

- Podesta, F., & Madia, J. E. (2025). “Contrasting and Combining the Historical Counterfactual Method and the Synthetic Control Method”. *forthcoming at Journal of Mixed Methods Research*.
- Breznau, N., Rinke, E., Wuttke, A., Et Al. (2025). “The Reliability of Replications: A Study in Computational Reproductions.” *Forthcoming at Royal Society Open Science*. [Pre-print](#)
- Breznau, N., Rinke, E.M., Wuttke, A., Et al. (2022). “Observing Many Researchers Using the Same Data and Hypothesis Reveals a Hidden Universe of Uncertainty.” *Proceedings of the National Academy of Sciences (PNAS)*, 119(44):e2203150119.

Publications in Inequality and Policy

- Madia, J.E., Obsuth, I., Thompson, I., Daniels, H., & Murray, A.L. (2022). “Long-term labour market and economic consequences of school exclusions in England: Evidence from two counterfactual approaches.” *British Journal of Educational Psychology*, e12487.
- Kuitto, K., Madia, J.E., & Podesta, F. (2021). “Pension Generosity and Old Age Poverty in OECD Countries.” *Journal of Social Policy*, 1-20.
- Azzolini, D., Campregher, S., & Madia, J.E. (2020). “Formal instruction vs informal exposure. What matters more for teenagers’ acquisition of English as a second language?” *Research Papers in Education*, 37(2), 153-181.
- Azzolini, D., Guetto, R., & Madia, J.E. (2017). “Do Mixed Unions Foster Integration? The Educational Outcomes of Mixed-parentage Children in Italy.” *Journal of International Migration and Integration*, 18(4), 1033-1060.

Papers Under Review and Working Papers

- Hoang, U. Et Al. (2024). “Incidence and clinical characteristics of virologically confirmed RSV: An observational study of acute respiratory illness (ObservatARI).” Accepted for e-poster presentations at the *RCGP Annual Conference & Exhibition*, Liverpool, UK, 3-4th October 2024, and the *WONCA Europe Conference*, Dublin, Ireland, 25-28th September 2024.
- Hoang U. Et Al. (2024). “Clinical Characteristics of Virologically Confirmed Respiratory Syncytial Virus (RSV) in English primary care: Protocol for the Observational Study of Acute Respiratory Infection (ObservatARI).” *JMIR Preprints*. DOI: 10.2196/preprints.60669
- Madia, J.E., Nicodemo, C., Orso, C., & Tealdi, C. (2024). A Cross-Sectional Analysis of Overseas General Practitioners’ Opioid Prescribing Patterns in England. *R&R at Health Policy*.
- Madia J.E., Nicodemo, C., Tealdi, C., Shah, A., & Sheikh, A. (2024). “NHS England Productivity and Elective Care Waiting List Backlog.” *In preparation for the Lancet*.
- Rowold, C., & Madia, J.E. (2024). “Demographic Transitions and Lifestyle Factors: Quantifying the Burden of Smoking-Attributable Diseases on Germany’s Healthcare System.” *Max Planck working paper*.
- Madia, J.E., & Espinosa Herrera, A. (2024). “Evaluating the Relative Cost-Effectiveness of Tobacco Control Interventions in Mexico: A Comparative Analysis of Five Different Scenarios.” *In preparation for BMJ scientific reports*.
- Madia, J.E., Moscone, F., Nicodemo, C., Orso, C., & Tealdi, C. (2023). “Temporary GPs and the Effects on Patients’ Health Outcomes.” *Under-review at Labour Economics*.
- Madia, J.E., Moscone, F., & Nicodemo, C. (2022). “Ethnicity and Health at Work during the COVID-19 pandemic.” *R&R at Regional Science and Urban Economics*.
- Madia, J.E., Praeg, P., & Monden, C. (2022). “Does Children’s Education Improve Parental Longevity? Evidence from Two Educational Reforms in England.” *R&R at Demography*. Pre-print

Book Chapters

- Madia, J.E., & Nicodemo, C. (2022). “Migration and Health During Covid-19 Period.” In K.F. Zimmerman (Ed.), *Handbook of Labor, Human Resources and Population Economics*. Cham: Springer.
- Madia, J.E., Nicodemo, C., & Redding, S. (2022). “Ethnicity and Inequality during the COVID-19 pandemic.” In B.H. Baltagi, F. Moscone, & E. Tossetti (Eds.), *The Economics of Covid-19 in Contributions to Economic Analysis*. Bingley: Emerald Publishing.
- Paskov, M., Madia, J.E., & Goedemé, T. (2018). “Middle Class Living Standards: What Can We Learn from Beyond Income Measures of Economic Wellbeing?” In B. Nolan (Ed.), *Generating Prosperity in Affluent Countries*. Oxford: Oxford University Press.

Blogs and Media Impact

- NHS’s New 2024 Budget: Stepping Stones to Reform Amid Financial Constraints, Antevorta Foundation, **Nov., 2024**, [online link](#)
- GP Shortage in the UK: Implications and Solutions, Antevorta Foundation, **Oct., 2024**, [online link](#)
- Challenges for Future Governments: Ensuring NHS Sustainability and Efficiency, Antevorta Foundation, **Jul., 2024**, [online link](#)
- South Korea: the key to reviving the birth rate is fiscal predictability, Agenzia Nova.News, Italy **Jun., 2024**, [online link](#)
- Los líderes mundiales en salud pública apoyan las alternativas al tabaco para reducir el daño, Argentina, **Jun., 2024**, [online link](#)

- Fumo e alcol, La transizione che può aiutare la salute e i conti pubblici, Il Sussidiario, Italy, **Jun., 2024**, [online link](#)
- 1.000 millones de ahorro en salud cambiando el cigarro tradicional por alternativas menos dañinas, La Razon, Spain, **May, 2024**, [online link](#)
- Expertos británicos piden incentivar las alternativas menos perjudiciales a los productos adictivos, El Español, Spain, **May, 2024** [online link](#)
- Informal Care During the Pandemic, Brunel Business School Blog, **Jun., 2023**, [online link](#)
- After Brexit, mental health in the UK worsened compared to trend, University of Oxford blog, **May, 2022**, [online link](#)

Funding & Awards

- **Co-investigator**, Incidence and Clinical Characteristics of Virologically-Confirmed RSV 2023
Funded by Moderna (£4,000,000)
- **Co-investigator**, Waiting times in Emergency Departments 2023
National Institute for Health Research (NIHR) and Health and Social Care
Delivery Research (£580,000)
- **Co-investigator**, Real-world effectiveness of Oxford/Astrazeneca COVID-19 vaccine 2022
Funded by AstraZeneca (£5,000,000)
- **Co-investigator**, Multi-morbidity, Inequality, and Use of Health Care (MICA) 2021
National Institute for Health Research (NIHR) School for Primary Care Research
(£62,700)
- **RC28 Travel award** (£300) 2021
- **Large UK ESRC Grant, Excluded Lives Project** 2019
Work package A.2, Co-Investigator, Grant number: ES/S015744/1 (£2,040,680)
- **INGRID-2 Visiting Scholar Grant** (£2,500) 2019

Industry and Policy Collaborations

- Led £4M collaborative research project with Moderna and University of Oxford (2023-2025) investigating RSV economics and cost-effectiveness
- Managed £5M research collaboration with AstraZeneca evaluating UK COVID-19 vaccination policies using healthcare records
- Conducted €60,000 research project with Auraia and Ca' Foscari University on climate change, population health, and finance sector impacts
- Provided training courses to NHS England on health economics, statistics, and policy evaluation methods

Conferences and Invited Talks

Conferences

- **Empirical Health Economics Workshop** Jul. 2024
Sant'Anna University Pisa, Italy
- **American European Health Economics Study Group** Jun. 2024
University of Catania, Italy
- **Italian Health Economics Association** Dec. 2023
La Sapienza University Rome
- **American European Health Economics Study Group** Jul. 2023
Harvard University, Cambridge Massachusetts, USA
- **Population Association of America (PAA) Annual Meeting** May 2021
New Orleans, USA

- **Empirical Health Economics Workshop** Jul. 2022
Joint Research Centre, European Commission, Ispra, Italy
- **Spatial Health Economics Workshop** Jul. 2022
Ca' Foscari University, Venice, Italy
- **European Consortium for Sociological Research (ECSR) Annual Conference** Jul. 2022
University of Amsterdam, Netherlands
- **American European Health Economics Study Group** Jun. 2022
Pompeu Fabra University, Barcelona, Spain
- **Research Committee in Social Stratification and Mobility (RC28)** Apr. 2022
London School of Economics and Political Science, UK
- **Italian Health Economics Association (AIES) 26th Annual Conference** Dec. 2021
University of Bocconi, Italy
- **Advanced Pharmaco and Health Economics Conference (APHEC)** Sep. 2021
University of Genoa, Italy
- **Population Association of America (PAA) Annual Meeting** May 2021
Online Conference
- **Research Committee in Social Stratification and Mobility (RC28)** Apr. 2021
University of Turku, Finland
- **European Consortium for Sociological Research (ECSR) Annual Conference** Sep. 2019
University of Lausanne, Switzerland
- **Research Committee in Social Stratification and Mobility (RC28)** Jul. 2019
University of Princeton, USA
- **Research Committee in Social Stratification and Mobility (RC28)** Mar. 2019
University of Frankfurt, Germany
- **Equal Chances Conference: Social Mobility Around the World** Dec. 2018
University of Bari and World Bank, Italy

Invited Talks

- **Economics Research in Public Health, Social Care, and Primary Care:** Oct. 2024
Three NIHR Schools, PRUs and ARCs, Manchester
- **Brunel Business School - Industry Annual Forum** Jun. 2024
- **Brunel First Annual Health Economics and Policy Forum** May 2024
- **Health Organisation, Policy and Economics (HOPE),** Apr. 2022
Centre for Primary Care & Health Services Research, University of Manchester, UK
- **Brunel Business School, Brunel University London, UK** Mar. 2022
- **Institute for the Evaluation of Public Policies (FBK-IRVAPP), Italy** Jun. 2021
- **Netherlands Interdisciplinary Demographic Institute (NIDI),** Jul. 2020
Netherlands
- **Institute for Social and Economic Research (ISER), UK** Jun. 2019
- **Institute for New Economic Thinking (INET),** Jun. 2018
University of Oxford, UK
- **Finnish Centre for Pensions, ETK, Finland** May 2018

Service to the Profession

Reviewer for: Health Economics; Journal of Health Economics; Social Sciences and Medicine; BJM Open; Journal of Economic Behavior and Organisation; Labour Economics; Journal of Labour Economics; Empirical Economics; Discover Social Science and Health; Migration Study; Labor; Research in Economics; Economic Modelling

Editorial Work

Guest Editor, Journal of Economic Behavior and Organisation, Special Issue on “Immigration, Health, and Wellbeing, 2023”

Languages and Technical Skills

Languages

- Spanish (native)
- Italian (fluent)
- English (fluent)

Technical Skills

- Stata
- R, SQL, & Python
- LaTeX

Memberships

- | | |
|--|--------------|
| • European Association of Labour Economists (EALE) | 2021–present |
| • Population Association of America (PAA) | 2021–present |
| • Office for National Statistics UK Accredited Researcher | 2021–present |
| • Alumni Human Capital and Economic Opportunity
Global Working Group (HCEO) | 2017–present |