Sushil Mathew

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EDUCATION

2020 - 21	**MSc Economics**, University of Warwick, UK - Merit
2019 - 20	**PG Diploma Economics**, University of Warwick, UK - Awarded
2015 - 16	**MSc Subsea Engineering**, Newcastle University, UK - Distinction
2011 - 15	**BTech Mechanical Engineering**, National Institute of Technology, Trichy, India

RESEARCH IN PROGRESS

Jan, 2022 - Present

Changing body weight of adolescents in Great Britain: The role of fast-food

CO-AUTHOR WITH PROFS. YU AOKI (ABERDEEN), WIJI ARULAMPALAM AND NEIL LLOYD (WARWICK)

- *Summary*: Project investigating how exposure to fast food outlets near homes or schools are linked to body weight status of adolescents.
- Led Data cleaning and management. Cleaned confidential household panel survey data (Millennium Cohort Surveys), administrative data (ONS), road network data (Ordnance Survey). Worked remotely within two confidential data labs - Data Safe Haven and UK Data Services Secure Lab (housed at University College, London and University of Essex).
- Used Stata to clean panel data. Automated QGIS using Python to clean road network data.
- Supporting econometric analysis using Stata. Causal analysis using Instrumental variables. Data description using kmeans clustering, linear regressions, data visualisations using tables and plots.
- Drafting manuscript with preliminary results presented by co-author at two seminars (CAGE at Warwick and American-European Health Economics Workshop, Barcelona)

RESEARCH ASSISTANTSHIPS

Dec, 2022 - Present

Institute for Global Prosperity, UCL

ASSISTING PROF. GEORGIOS MELIOS (LSE)

- Geo-spatial analysis and visualisation to study inequality in London, EU and the Middle East.
- Working with R to create Shiny web apps and version control on GitHub.

Oct, 2021 - Present

Cohort-specific and human capital determinants of macroeconomic development

ASSISTING PROFS. TOMMASO PORZIO (COLUMBIA), FEDERICO ROSSI (WARWICK)

- *Project summary*: Investigation of how countries grow in the long run at the macroeconomic level, and what its household and individual level determinants are.
- Data extraction of more than 700 cross-sections, 70 countries, covering 50 years. Data sources: Luxembourg Income Studies (LIS), IPUMS-Intnl., and Living Standards Measurement Surveys.
- Independently coordinated with data providers at LIS to extract remotely stored microdata.
- Conducting descriptive statistical analyses and quality checks on data. Integrating Stata and LaTeX to automate output. Web scraped currency deflator data using Python.

May - Sept, 2021

Gender, health and labour economics

ASSISTED PROF. SONIA BHALOTRA (WARWICK)

- Cleaned climate data granular at 5km x 5km grid and day level using R. Cleaned survey and geographical data from multiple countries sourced from Demographic Health Surveys (DHS).
- Descriptive statistical analyses using Stata, and data visualisations.
- Prepared presentations and conference posters using LaTeX.

DISSERTATION RESEARCH

June - *Sept, 2021*	**Female Autonomy and Child Mortality in India** SUPERVISOR: PROF. WIJI ARULAMPALAM (WARWICK) • *Project summary:* Linked female autonomy - which cannot be quantitatively observed - to child mortality. Used k-means clustering in econometric model to quantify qualitative information about female autonomy. • Cleaned household level survey microdata from Demographic Health Surveys.
Jan - *Sept, 2016*	**Dynamic analysis of a pipeline conducting multiple fluids** SUPERVISOR: PROF. NARAKORN SRINIL (NEWCASTLE) • Applied numerical methods to solve a system of differential equations that modelled a dynamic system. Coded a User Interface on Matlab, to take parameters from users, and generate data for simulations.

TEACHING EXPERIENCE

Tutoring Excellence Award 2021-22, Economics Department, Warwick

2022-Present	**Econometrics**, Applied track, UG Year 2, Warwick
2022-Present	**Economics I**, Applied track, UG Year 1, Warwick
2021-22	**Statistics**, Advanced track, UG Year 1, Warwick
2021-22	**Microeconomics**, Advanced track, UG Year 1, Warwick

OTHER EXPERIENCE

April - *May, 2022*	**Translation Assistance** ASSISTED PROF. JAMES FENSKE (WARWICK) Translated Police reports from Malayalam language to extract relevant information for an environmental economics project.
2020 - 2021	**Student-Staff Liaison Committee Member** MSC ECONOMICS, WARWICK Led discussions with Course Management Team, leading to the introduction of optional module on Real Analysis.
2017 - 2019	**Assistant Engineering and Project Manager** MCDERMOTT INTERNATIONAL, DUBAI, UAE Managed multi-million dollar construction projects in multiple countries.

SKILLS

Stata, R, Python, Git/GitHub, QGIS, LaTeX, Matlab, C++