Sushil Mathew

RESEARCH AND TEACHING ASSISTANT

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Education

University of Warwick   *Coventry, UK*
MSc ECONOMICS   *Sept, 2020 - Sept, 2021*

University of Warwick   *Coventry, UK*
PG DIPLOMA ECONOMICS   *Sept, 2019 - July, 2020*

Newcastle University   *Newcastle upon Tyne, UK*
MSc SUBSEA ENGINEERING   *Sept, 2015 - Aug, 2016*

National Institute of Technology   *Trichy, India*
BTECH MECHANICAL ENGINEERING   *July, 2011 - May, 2015*

Research

WORK IN PROGRESS

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

JOINT WITH YU AOKI AND WIJI ARULAMPALAM   *January, 2022 - Present*

- Modelling unobserved heterogeneities using machine learning; construction of instrumental variables; data visualisation and exploration; literature review in econometrics and statistics; data cleaning - longitudinal household survey data, administrative geographical data (Ordnance Survey, Office of National Statistics); manuscript drafting
- Computational experience: `Python:arcpy,pandas; ArcGIS; Stata;` LaTeX

RESEARCH ASSISTANCE

Research Assistant | University of Warwick - Columbia Business School   *Coventry, UK*
INVESTIGATORS: FEDERICO ROSSI, TOMMASO PORZIO   *October, 2021 - Present*

- Project: Human capital and cohort-specific microeconomic determinants of macroeconomic growth
- Exploratory statistical analyses; web scraping; data harmonization of household and labour force surveys microdata for a large sample of countries and time periods; data quality control of microdata with respect to aggregate macroeconomic data; data visualisation; coordination with data providers; manuscript drafting.
- Computational experience: `Python:pandas,beautifulsoup; Stata; R;` LaTeX

Research Assistant | University of Warwick   *Coventry, UK*
INVESTIGATOR: SONIA BHALOTRA   *May - October, 2021*

- Projects: Climate and domestic violence, Determinants of Child Mortality
- Summary: Wrangling of high frequency climate data; descriptive statistical analyses; literature review; coordination with international co-authors; LaTeX presentation preparation for seminars and workshops.
- Computational experience: Version control on `Github; Stata; R;` LaTeX; Data formats such as JSON and netCDF

MSc DISSERTATION

MSc Dissertation | University of Warwick   *Coventry, UK*
SUPERVISOR: WIJI ARULAMPALAM   *May - September, 2021*

- Project: Female autonomy and Child Mortality in India: Evidence through statistical learning
- Summary: Research design, Modelling unobserved heterogeneities using machine learning, Survey data analysis
- Computational experience: `Stata,` LaTeX

MSc Dissertation | Newcastle University
Supervisor: Narakorn Srinil

<div align="right">Newcastle upon Tyne, UK
December, 2015 - August, 2016</div>

- Project: Analysis of multi-phase flow through a weakly supported pipeline
- Summary: Applying numerical methods for solving fluid and structural dynamics models, conducting simulations and designing user interface on `Matlab`
- Computational experience: `Matlab; C++`

Group Memberships and Affiliations

Centre for Competitive Advantage in the Global Economy (CAGE - Warwick), Macroeconomics and International Economics Research Group (Warwick), Econometrics and Labour (Warwick)

Teaching

Spring 2022	**Statistics**	Teaching Assistant, Economics UG Year 1	University of Warwick
Spring 2022	**Microeconomics**	Teaching Assistant, Economics UG Year 1	University of Warwick
Autumn 2021	**Microeconomics**	Teaching Assistant, Economics UG Year 1	University of Warwick

Awards

2022   **Teaching Excellence Award** | Department of Economics, University of Warwick

Management Experience

Course Representative, MSc Economics

2020 - 2021   **University of Warwick** | Led discussions with Course Management Faculty to communicate and implement feedback between members of the MSc Economics Cohort and the Management, leading to the introduction of an optional module on Real Analysis.   *Coventry, UK*

Junior Engineering Project Manager

2016 - 2019   **McDermott International** | Coordinated the execution of multi-million dollar projects with the engineering, business and construction teams. Negotiated terms of contract with clients and sub-contractors. Represented McDermott at various international locations - Indonesia, India, Oman and Saudi Arabia.   *Dubai, UAE*

Referees

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