

# TANAY KONDIPARTHY

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## EDUCATION

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**MSc** London School of Economics, Econometrics and Mathematical Economics 08/23-

**MSc** University of Warwick, Economics 08/22 to 08/23  
**Distinction**

Grade: 79%, Rank: Top 5 in Cohort.

Modules: Advanced Microeconomics: 94% (Cohort High), Advanced Macroeconomics: 70%, Advanced Econometrics: 78%, Game Theory: 74%, Monetary Economics-78%, Stochastic Calculus (Measure Theoretic)-78%, Dissertation-TBC.

Non-Credit:

Advanced Mathematics for PhD Economics course by Prof. Peter Hammond.

Topics: Measure Theory, Dynamic Programming, Variational Calculus, Advanced Linear Algebra.

**BSc** University of Warwick, Economics 09/19 to 07/22  
**Upper Second Class Honours,**

Year 3: Mark:71%

Modules: Mathematical Economics, Real Analysis III, Metric Spaces, Mathematical Methods, Mathematical Statistics, Stochastic Processes, Decision Theory, Time Series Econometrics (95%: Cohort High).

## RESEARCH EXPERIENCE

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**Research Assistant**, Centre for Time-Use Research, University College London. 12/22 to 07/23  
Supervisor's: Prof. Jonathan Gershuny and Dr Juana Lamote.

- Collection of survey data from across countries.
- Harmonisation and Construction of a multinational time-use study.
- Analysing Child Labour Outcomes via surveys vs time use diaries in collaboration with the International Labour Organisation.
- Analysing Wellbeing and Work patterns in the United Kingdom.
- Long term estimates of Time Use in European Countries via a novel two step methodology.

**Research Assistant, Microeconomic Theory: Competition and Regulation**, Dept of Economics, University of Warwick. 01/23 to 06/23  
Supervisor: Prof Daniele Condorelli, Academic Affiliate- Compass Lexecon.

Papers:

Fair Share Payments for Network Operators

Data-Driven Envelopment with Privacy-Policy tying, (R&R at The Economic Journal)

- Writing mathematical proofs for propositions.
- Solving linear programming problems in Matlab.
- Conducting literature reviews in microeconomic theory related to competition, network games and regulation.
- Proof reading research work in competition and regulation.

**Research Assistant, Applied Microeconometrics**, Dept of Economics, University of Warwick. 07/22 to 11/22

Project Name: Investigating individual labour market flows and transitions using BHPS and UKHLS panel data 1980-2020.

Supervisor: Assoc. Prof Jennifer Smith.

- Sequence analysis using SQ/SADI package in STATA.
- Creating new datasets from BHPS/UKHLS.
- Conducting exploratory analysis.
- Conducting optimal matching and clustering analysis.

**Research Grant, Applied Microeconometrics**, University of Warwick 06/22 to 08/22  
**Undergraduate Research Support Scheme (URSS)**

Project Name: Long term estimates of physical activity in the United Kingdom using time-use data. £1200

Supervisors: Prof Oyinlola Oyebode, Elena Mylona

- Short-Term Research Grant to conduct analysis using the CaDDI dataset.

- Data cleanup and management: Dimensionality reduction, calculating no of episode changes, redefining categorical variables etc.
- Descriptive analysis and graphics for physical activity trends over 2016-2022.
- Generating new variables.
- Running Participation time (OLS) and Participation probability (Logit) regressions.
- Running a novel Two-Step estimation procedure using survey questionnaire to control for cyclical and frequency in participation.
- Building a general methodology for applications across all other activity categories in the CaDDI dataset.

**Dissertation, Time Series Econometrics**, University of Warwick.

09/21 to 04/22

Project Name: Evaluating the Twin Deficit Hypothesis in the United Kingdom

Grade: High First

- Exploring the causal relationship between fiscal deficit and current account deficit in the United Kingdom from 1979-2021.
- Collection and Creation of a new public finance and external balance dataset for time series analysis.
- Generating long run equilibrium relationship(cointegration) using Vector Error Correction Models.
- Exploring the short run dynamic relationship using Structural Vector Auto Regressions.
- Causality Analysis using VECMs and Toda-Yamamoto Causality.
- Cointegration analysis in the presence of structural breaks.

## PUBLICATIONS

### **Data Releases:**

Lamote de Grignon Perez, J., Gershuny, J., Vega-Rapun, M., Kondiparthi, T. and Walthery, P. (2023 forthcoming) *Multinational Time Use Study Database Version 11*. London: Centre for Time Use Research (UCL).

### **Conference Papers**

Tanay, K.V. "Evaluating the Twin Deficit Hypothesis in the United Kingdom"

British Conference of Undergraduate Research, April-2023.

International Conference of Undergraduate Research, Sept-2022.

[Full paper](#)

Tanay, K.V. et.al, "Exploring the Relation Between Children and Gender Pay gap in the United Kingdom"

International Conference of Undergraduate Research, Sept. 27-29, 2021.

[Full paper](#)

## COMPUTER SKILLS

**Programming:** Advanced-Stata, Intermediate-EViews, Matlab, Dynare, Beginner- R, Python, ArcGIS.

**Matlab/Dynare:** Running DSGE and NK models. Code: [here](#)

**Stata:** Running SVARs, VECMs, Plotting IRFs, (G)ARCH type models, ARMA Modelling, Forecasting, Cluster Analysis, Sequence Analysis, Optimal Matching, Binary Choice, Panel Data Models, Difference in Differences.

**Applications:** MS Excel (Advanced), Latex.

**Certifications:** Macro econometric Forecasting (IMF), Linear Algebra (Georgia Tech), ArcGIS(Alaska, in-progress).

**Quantitative Tests:** GRE: Quantitative:164, Verbal: 158.

## HONORS AND AWARDS

**Pioneer Award: University of Warwick.**

2022

Awarded for Proficiency in 12 Warwick Core Skills.

**Exceptional Volunteer, Warwick Volunteers.**

2021

Awarded for Outstanding commitment to the local community.

## TEACHING EXPERIENCE

**Online Tutor**

08/22-Present

Undergraduate- Economics

A level- Economics, Mathematics, Further Mathematics, Further Statistics.

## WORK EXPERIENCE

**Warwick Volunteers**

[Project Leader Support Officer], [Coventry].

05/21 to 05/22

[Project Leader], [Cheylesmore].

05/20 to 04/21

**Secretary**

10/22-Present

[Student-Staff Liaison Committee Secretary], [Dept of Economics, Warwick].