

Curriculum Vitae for Ali Furkan Kalay

June 11, 2025

+61 434 232 612 | alifurkan.kalay@mq.edu.au | alfurka.github.io

I am a Research Fellow at the Macquarie University Centre for Health Economy. I have a keen interest in leveraging novel large datasets, from social media to maps and administrative records, to extract meaningful insights, and in utilizing and advancing state-of-the-art statistical models.

PRIMARY: Health Economics, Applied Econometrics

SECONDARY: Statistics

Education

2020-2024	PH.D. IN ECONOMICS, The University of Queensland
2019	MASTER OF ADVANCED ECONOMICS, The University of Queensland
2016-2018	MASTER in Economics, Istanbul Technical University
2012-2016	BACHELOR OF SCIENCE in Industrial Engineering, Istanbul Technical University

Employment & Experience

2024-present	Research Fellow, Macquarie University Centre for Health Economy
2019 - 2024	Research Assistant & Tutor, The University of Queensland
2017-2018	Research Assistant, Istanbul Technical University
2015	Internship, Product Development Department, Kuveyt Turk Participation Bank

Publications

2019	"SPATIAL ANALYSIS OF TWITTER SENTIMENT AND DISTRICT-LEVEL HOUSING PRICES", <i>Journal of European Real Estate Research</i> , Vol. 12 No. 2, pp. 173-189, (with C. Hannum and K.Y. Arslanli)
------	---

Grants

2024-2025	CHIEF INVESTIGATOR: "PREDICTING SELF-HARM AND SUICIDE RISK WITHIN AUSTRALIAN LOCAL GOVERNMENT AREAS", <i>The National Suicide Prevention Office</i> , AUD 296,196 (with Henry Cutler , Alan Woodward, and Anam Bilgrami)
2025	MACQUARIE UNIVERSITY ECR ENABLING SCHEME, AUD 3000.

Working Papers

2025	"BRIDGING LANGUAGE BARRIERS: THE IMPACT OF LARGE LANGUAGE MODELS ON ACADEMIC WRITING" (with Burak Dalaman and Nathan Kettlewell) (submitted)
2024	"SOCIAL INTERACTIONS IN THE DEMAND FOR PRIVATE HEALTH INSURANCE: EVIDENCE FROM LINKED EMPLOYER-EMPLOYEE DATA" (with Alicia Rambaldi and Chris Rose) (submitted)
2024	"LINKED ADMINISTRATIVE DATA AND ESTIMATING THE MARGINAL WILLINGNESS TO PAY FOR AMENITIES" (with James Hansen and Alicia N. Rambaldi)
2023	"FORECASTING REGIONAL HOUSE SALES IN TURKEY USING GOOGLE TRENDS" (with Yi Zhang)(Draft)
2022	"GENERATING SYNTHETIC DATA USING K -NEAREST NEIGHBORS" (arXiv - Software)
2021	"DOUBLE ROBUST MASS-IMPUTATION WITH MATCHING ESTIMATORS" (arXiv)

Work-in-progress

“NETWORK SPILLOVERS VERSUS COMMON FACTORS: A JOINT-ESTIMATION APPROACH” (with [James Morley](#), [Valentyn Panchenko](#), [Jorge M. Pinto](#), [Chris Rose](#))

Talks & Lectures

- 2025 CONFERENCE: AI, Law and Society Conference (Macquarie University)
- 2024 CONFERENCE: 45th Annual AHES Conference
CONFERENCE: Internal Seminar (Monash University Centre for Health Economics)
SEMINAR: Internal Seminars (Macquarie University)
PRESENTATION: on “Double Robust Difference-in-Difference Estimators” (Macquarie University Centre for Health Economy)
CONFERENCE: Australasian Workshop on Econometrics and Health Economics 2024
SEMINAR: Internal Seminar (Macquarie University)
- 2023 CONFERENCE: Workshop on Economics of Health and Wellbeing (Macquarie University)
CONFERENCE: 37th PhD Conference in Economics & Business (University of Melbourne)
CONFERENCE: Econometric Society Australasian Meeting (University of New South Wales)
CONFERENCE: Australian Conference of Economists (Brisbane, Australia)
CONFERENCE: Western Economic Association International (University of Melbourne)
GUEST LECTURER: *Statistical Theory for Economists* (The University of Queensland)
SEMINAR: Brown Bag (The University of Queensland)
- 2022 CONFERENCE: Center for Efficiency and Productivity Analysis (The University of Queensland)
PRESENTATION: *on Creating Synthetic Data* (Australian Bureau of Statistics)
- 2021 PRESENTATION: “Double Robust Mass-Imputation with Matching Estimators” (Australian Bureau of Statistics)
- CONFERENCE: 34th PhD Conference in Economics & Business (Virtual)
- 2020 SEMINAR: PhD Colloquium (The University of Queensland)

Honors & awards

- 2020-2023 UQ GRADUATE SCHOOL Scholarship, The University of Queensland (Stipend and tuition)
- 2019 MASTER OF ADVANCED ECONOMICS Scholarship, The University of Queensland (Stipend and tuition)
- 2012-2016 EKOTEK: The Foundation of Economic and Technical Solidarity Success Grant (Monthly stipend)
- 2012-2016 KYK: State Higher Education Grant for Success (Monthly stipend)
- 2012 National University Entrance Exam ([OSYM](#)): ranked within 0.12% (*out of 2 million*).
- 2011 BRONZE MEDAL at Akdeniz University Math Olympics

Languages and Computer Skills

Languages **Turkish** (Native), **English** (Fluent), **Arabic** (Beginner)

Programming **Python** (Advanced, [synloc](#)), **R** (Advanced), **Stata** (Advanced), **Julia** (Intermediate) **Matlab** (Intermediate), **SQL** (Intermediate), **PHP** (Intermediate)