

# Curriculum Vitae for Ali Furkan Kalay

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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

- 2025 "GENERATING SYNTHETIC DATA WITH LOCALLY ESTIMATED DISTRIBUTIONS FOR DISCLOSURE CONTROL", *Australian & New Zealand Journal of Statistics*, 1–24. <https://doi.org/10.1111/anzs.70032> [Software].  
2019 "SPATIAL ANALYSIS OF TWITTER SENTIMENT AND DISTRICT-LEVEL HOUSING PRICES", *Journal of European Real Estate Research*, Vol. 12 No. 2, pp. 173-189, (with C. Hannum and K.Y. Arslanli)

## Grants

- 2024-2025 CI: "PREDICTING SELF-HARM AND SUICIDE RISK WITHIN AUSTRALIAN LOCAL GOVERNMENT AREAS", *The National Suicide Prevention Office*, AUD 296,196 (with [Henry Cutler](#), Alan Woodward, and [Anam Bilgrami](#))  
2025 AI: "SPILLOVERS BETWEEN FIRM PERFORMANCE AND EMPLOYEES' HEALTH", *Business Research Grant Scheme, University of Technology Sydney*, AUD 12,000 (with [Nathan Kettlewell](#), Alan Woodward, and [Ali Vergili](#))  
2025 CI: "MACQUARIE UNIVERSITY ECR ENABLING SCHEME", AUD 3,000.

## Research Supervision

- PhD Kadek Darmawan  
RA Henry Wen (2024), Hengzhe Zhao (2025-2026)

## Working Papers

- 2025 "LOST IN AGGREGATION: QUANTIFYING MEASUREMENT ERROR FROM GEOGRAPHIC CENTROIDS" (with Henry Wen) (Revise and Resubmit, Economic Record)  
2025 "BRIDGING LANGUAGE BARRIERS: THE IMPACT OF LARGE LANGUAGE MODELS ON ACADEMIC WRITING" (with Burak Dalaman and [Nathan Kettlewell](#)) (Reject and Resubmit, Journal of Information Technology, SSRN)  
2024 "SOCIAL INTERACTIONS IN THE DEMAND FOR PRIVATE HEALTH INSURANCE: EVIDENCE FROM LINKED EMPLOYER-EMPLOYEE DATA" (with [Alicia Rambaldi](#) and [Chris Rose](#))  
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)

2021

“DOUBLE ROBUST MASS-IMPUTATION WITH MATCHING ESTIMATORS” ([arXiv](#))

## Work-in-progress

“SPILLOVERS BETWEEN FIRM PERFORMANCE AND EMPLOYEES” (with [Nathan Kettlewell](#), Alan Woodward, and [Ali Vergili](#))

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

2025

“BASELINE HEALTH DISTRIBUTION USING HILDA” (with Shan Jiang, Bonny Parkinson, and Yuanyuan Gu)

## Talks & Lectures

2025

CONFERENCE: Inaugural AE<sup>2</sup> Australasian Econometric Conference (Macquarie University City Campus, Sydney)

CONFERENCE: 46th Annual AHES Conference (Canberra, Australia)

CONFERENCE: International Health Economics Association (IHEA) Conference 2025 (Indonesia)

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)

CONFERENCE: Workshop on Economics of Health and Wellbeing (Macquarie University)

CONFERENCE: 37<sup>th</sup> 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: 34<sup>th</sup> PhD Conference in Economics & Business (Virtual)

2020

SEMINAR: PhD Colloquium (The University of Queensland)

## Honors & awards

2024

DEAN’S AWARD FOR OUTSTANDING HDR THESIS, School of Economics, The University of Queensland (Top 10% of HDR theses)

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)