

# Curriculum Vitae for Ali Furkan Kalay

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+61 434 232 612 | [alifurkan.kalay@mq.edu.au](mailto:alifurkan.kalay@mq.edu.au) | [alfurka.github.io](https://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)
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## 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 <a href="#">Henry Cutler</a> , Alan Woodward, and <a href="#">Anam Bilgrami</a> )
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 <a href="#">Nathan Kettlewell</a> ) (submitted)
2024	"SOCIAL INTERACTIONS IN THE DEMAND FOR PRIVATE HEALTH INSURANCE: EVIDENCE FROM LINKED EMPLOYER-EMPLOYEE DATA" (with <a href="#">Alicia Rambaldi</a> and <a href="#">Chris Rose</a> ) (submitted)
2024	"LINKED ADMINISTRATIVE DATA AND ESTIMATING THE MARGINAL WILLINGNESS TO PAY FOR AMENITIES" (with James Hansen and <a href="#">Alicia N. Rambaldi</a> )
2023	"FORECASTING REGIONAL HOUSE SALES IN TURKEY USING GOOGLE TRENDS" (with <a href="#">Yi Zhang</a> )(Draft)
2022	"GENERATING SYNTHETIC DATA USING $K$ -NEAREST NEIGHBORS" ( <a href="#">arXiv</a> - <a href="#">Software</a> )
2021	"DOUBLE ROBUST MASS-IMPUTATION WITH MATCHING ESTIMATORS" ( <a href="#">arXiv</a> )

## 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: 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)
- 2020 CONFERENCE: 34<sup>th</sup> PhD Conference in Economics & Business (Virtual)  
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)

## Other

**Podcasting:** On education philosophy. ([Cahil Hoca](#) - in Turkish)

**Chess:** My [Lichess](#) account.