

Curriculum Vitae for Ali Furkan Kalay

January 10, 2026

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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", <i>Australian & New Zealand Journal of Statistics</i> , 1–24. https://doi.org/10.1111/anzs.70032 [Software].
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	CI: "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	AI: "SPILLOVERS BETWEEN FIRM PERFORMANCE AND EMPLOYEES' HEALTH", <i>Business Research Grant Scheme, University of Technology Sydney</i> , 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 ² 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)
2023	CONFERENCE: 37 th 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: <i>Statistical Theory for Economists</i> (The University of Queensland)
	SEMINAR: Brown Bag (The University of Queensland)
2022	CONFERENCE: Center for Efficiency and Productivity Analysis (The University of Queensland)
	PRESENTATION: <i>on Creating Synthetic Data</i> (Australian Bureau of Statistics)
2021	PRESENTATION: “Double Robust Mass-Imputation with Matching Estimators” (Australian Bureau of Statistics)
	CONFERENCE: 34 th 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% (<i>out of 2 million</i>).
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)