

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

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| 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

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| 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

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| 2025 | "GENERATING SYNTHETIC DATA WITH LOCALLY ESTIMATED DISTRIBUTIONS FOR DISCLOSURE CONTROL", <i>Australian & New Zealand Journal of Statistics</i> (Accepted - 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

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| 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

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

Working Papers

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| 2025 | "LOST IN AGGREGATION: QUANTIFYING MEASUREMENT ERROR FROM GEOGRAPHIC CENTROIDS" (with Henry Wen) (Submitted) |
| 2025 | "BRIDGING LANGUAGE BARRIERS: THE IMPACT OF LARGE LANGUAGE MODELS ON ACADEMIC WRITING" (with Burak Dalaman and Nathan Kettlewell) (Reject and Resubmit, <i>Journal of Information Technology</i> , 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) |

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| 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

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| 2025 | CONFERENCE: 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

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| 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

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| Languages | Turkish (Native), English (Fluent), Arabic (Beginner) |
| Programming | Python (Advanced, synloc), R (Advanced), Stata (Advanced), Julia (Intermediate) Matlab (Intermediate), SQL (Intermediate), PHP (Intermediate) |