Curriculum Vitae for Ali Furkan Kalay

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Education

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

Employment & Experience

2019-2023   *Research & Teaching Assistant*, The University of Queensland: During my PhD studies in Economics, I have been actively involved in both teaching and research, with some projects extending beyond the scope of my thesis.

- RESEARCHER "Creating Synthetic Australian Linked Administrative Data": *This is a project in collaboration with the Australian Bureau of Statistics to create synthetic versions of Australian administrative data to enhance the utilization of administrative data for research purposes. My role is to develop and implement new methodologies for creating synthetic data, while addressing the potential privacy concerns.* (ongoing)
- RESEARCH ASSISTANT of Satoshi Tanaka and Jorge Miranda Pinto: *This is an academic project investigating the sectoral transformation dynamics in Canada. My role was to conduct preliminary data analysis.*
- TUTORING the following courses: *Applied Econometrics for Macroeconomics and Finance (R), Causal Inference for Microeconometrics (STATA), Statistical Theory for Economists, Advanced Microeconometrics (STATA), Economics of International Finance, International Macroeconomics and Finance, Advanced Microeconomics.*

2017-2018   *Research & Teaching Assistant*, Istanbul Technical University(22 months): During my tenure, I balanced roles in both research and teaching, contributing to various research initiatives, some of which were in collaboration with the industry.

- VISITING RESEARCHER at The University of Queensland: *"Revisiting Card's Return to Schooling: A Double Machine Learning Approach": Engaged in a short-term collaborative research project with Dr. Metin Uyanik.*
- RESEARCHER "Analysis of the Relationship Between Local Sentiment and Property Markets in Istanbul": *Engaged in pioneering research using social media data to understand the housing market, applying natural language processing and spatial models to extensive datasets. (See publication below)*
- RESEARCHER at "5G Business Potential for Turkey": *Served as a researcher in a collaborative project between my university and a leading global telecommunications firm.*
- RESEARCHER at "Industry Analysis for Istanbul": *Participated as a researcher, focusing on Istanbul's education sector, in a joint venture with Istanbul Municipality.*

- LECTURER: *I thought and designed a programming course for two years as a lecturer, "Introduction to Scientific and Engineering Computing" (Python, R, SQL, Course design)*

- TEACHING ASSISTANT for the following courses: *Institutional Economics, Competition Policy and Law, International Finance, Introduction to Economics, Econometrics - I (STATA), Research Methods in Economics (R, LaTeX), Energy Economics.*

Internship, Product Development Department, Kuveyt Turk Participation Bank (7 months)
- Researcher at "Forward Exchange Rate and Risk Modeling" project: *I have participated in this short-term project to design a more profitable forward exchange contracts for the bank.*

Research Outcomes

Working-in-progress

JMP "Peer Effects in Private Health Insurance Demand" (with Alicia N. Rambaldi and Christiern Rose): *This paper leverage the unique features of the Australian health system to measure individual-level health shocks and explore the effects of peers' health shocks on private health insurance demand. The paper also introduces a novel identification strategy that circumvents the well-known reflection problem in peer effects estimation.*

"Linked Administrative Data and Estimating the Marginal Willingness to Pay for Amenities" (with James Hansen and Alicia N. Rambaldi)

Publications & Working Papers

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)
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

Seminars/Conferences/Invited Lectures

2023 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)

Grants, honors & awards

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.

References

Available upon request.