Caglar Onal

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EDUCATION

Ph.D. in Economics
University of Wisconsin - Milwaukee
2018 - 2023 (expected)
Milwaukee, WI

M.A. in Economics
University of Missouri - Columbia
2016 - 2017
Columbia, MO

B.S. in Economics
Istanbul University
2008 - 2014
Istanbul, Turkey

SKILLS

STATISTICAL SOFTWARE
• Stata • R • Python • SQL • Julia
• Jupyter • Pandas • Tidyverse
• NumPy • SciPy • TensorFlow
• ggplot2 • ArcGis • Matplotlib
• EViews • Tableau • Excel

ECONOMETRICS
• Causal Inference • DiD • IV
• Synthetic Control
• Least Squares Regression • Logit
• Probit • Regression Discontinuity
• Panel Data • Time Series
• Principal component analysis
• Bayesian Estimations

MACHINE LEARNING
• Linear Discriminant Analysis
• K-Nearest Neighbors • Lasso
• Random Forests • Neural Networks
• Supervised Learning
• Unsupervised Learning

DOCUMENT CREATION
• LaTeX • Microsoft Word
• Google Workspace

LANGUAGES
• English (fluent) • Turkish (native)
• Spanish (beginner)
• German (beginner)

REFERENCES

Available upon request.

EXPERIENCE

RESEARCH ASSISTANT | MAY 2022 - PRESENT
Department of Economics, University of Wisconsin - Milwaukee
- Collected, cleaned, edited, and summarized a panel dataset using Stata and R.
- Designed econometric models (difference-in-differences, event-study, and synthetic control) to find a causal relationship between Medicaid expansion and income inequality.
- Run regressions on Stata and R. Wrote a draft.

INSTRUCTOR | SEPTEMBER 2020 - PRESENT
Department of Economics, University of Wisconsin - Milwaukee
- Taught Economics Statistics for 4 semesters to over 100 college students. Gave lectures on the following topics:
  - How to clean, edit, summarize and visualize data.
  - Probability, discrete and continuous distributions. Random sampling techniques.
  - Statistical inference: t, z, chi-square tests. Confidence intervals, hypothesis testing, regression analysis, correlation.
- Taught Principles of Microeconomics for one semester. Covered following course materials:
  - Supply and demand analysis. Price elasticity and its applications.
  - Firm behavior. Production function. Opportunity cost, total cost, marginal cost, and profit. Cost-benefit analysis.
  - Consumer and producer surplus. Taxation. Externalities.

TEACHING ASSISTANT | SEPTEMBER 2018 - DECEMBER 2021
Department of Economics, University of Wisconsin - Milwaukee
- Graded classes, solved problem sets, and gave lectures in discussion sessions.

RESEARCH

- *"Effects of Automatic Criminal Record Expungements on Employment"* (Under review) (Awarded for Outstanding Paper in Labor Economics)
- *"The Impact of Recreational Cannabis Laws on Black Womens Marriage"* (Under review)
- *"The Effect of ACA Medicaid Expansion on Income Inequality"* (with Sezen Ozcan Onal, and Scott J. Adams) (In progress)
- *"Impact of Childrens Medicaid and CHIP Access on Mothers"* (In progress)
- *"Impact of Childrens Early Access to Health Care on Crime"* (In progress)
- *"Machine Learning Approach to Predict Long-Term Chronic Diseases"* (In progress)

AWARDS

- **2022 | Richard Perlman Prize** (Outstanding paper in labor economics) *University of Wisconsin - Milwaukee*
- **2018, 2020, 2021 | Chancellor's Graduate Student Award** *University of Wisconsin - Milwaukee*
- **2015 | Scholarship for Master's study in the US** *The Republic of Turkey, Ministry of National Education*