Eray Turkel

Education

2017–Present **Ph.D**, *Stanford University, Graduate School of Business*, Stanford, CA, USA.

2015–2016 **M.Phil**, *University of Cambridge*, Cambridge, UK.
Master of Philosophy in Economic Research

2011–2015 **B.A**, *Bogazici University*, Istanbul, Turkey.
Bachelor of Arts in Economics

Experience

2017–Present **Ph.D Student**, *Stanford GSB*, Stanford, CA.
Fields: Applied Microeconomics, Econometrics, Political Economics.
Highlighted Coursework:
- Machine Learning and Causal Inference, Modern Applied Statistics, Statistical Learning, Machine Learning, Applied Machine Learning, PhD Econometrics Sequence, PhD Industrial Organization Sequence.

2016–2017 **Analyst**, *JPMorgan & Chase*, London, UK.
Project manager and analyst in the business expansion team.

2013–2015 **Teaching Assistant**, *Bogazici University*, Istanbul, Turkey.
Teaching assistant for multiple courses in the economics department.
- Conducted weekly problem solving sessions and held office hours for courses such as mathematical statistics, game theory, public finance, and micro- and macroeconomics at different levels.

2014 **Research Assistant**, *Koc University*, Istanbul, Turkey.
Research assistant to Prof. Seda Ertac.
- Conducted experiments in the field, collaborated with PhD students and worked on data entry and analysis.

Honors and Awards

2017-Present **Stanford University**, *GSB PhD Fellowship*.

2015 **University of Cambridge**, *Economics Faculty Bursary*.

2015 **Turkish Ministry of EU Affairs**, *Jean Monnet Scholarship*, Declined.

Computer skills

Programming **R, Python, C++, Stata, Matlab/Octave**.

Other **ArcGIS, LaTeX, Office, VBA**.

Languages

Turkish Native

French Intermediate (DELF B2)

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I am a second year graduate student in Stanford GSB and I would like to be considered for the NBER Economics of AI graduate student workshop. I started my PhD at the GSB hoping to do applied empirical research, and quickly discovered the extensive work at the intersection of causal inference and machine learning through my first year coursework. Throughout my first and second year, I planned my courses to prepare myself to be an active researcher in this field, going beyond my program's requirements and taking additional graduate level courses from statistics and computer science departments. I am actively working on research projects related to Econometrics and using methods from machine learning in applied economics research.

In one of my research projects, I am working on developing a new method for evaluating continuous treatments and estimating dose response functions. In applied work, researchers frequently discretize continuous treatments by creating arbitrary intervals or cutoffs and analyze the data as if the treatment were binary or multi-valued. I am developing a new method by using recursive partitioning and tree algorithms to estimate dose-response functions and find the best way to discretize a continuous treatment in a data-driven way.

In another project, I use techniques from machine learning and natural language processing to analyze news content across the US over a period of three years. I use dynamic topic models to document the amount of coverage dedicated to local news topics and examine whether the decline in local news coverage is supply-driven or demand-driven. Decreasing local news coverage has extensive economic and political implications, and through careful empirical work I hope to be able to document the patterns in news coverage and conduct counterfactual exercises and suggest policy improvements.

I believe this workshop will be a great opportunity for me to meet scholars in the field, develop connections and future collaborations, and get feedback on my work.

Looking forward to hearing back from you.

Eray Turkel