

Emre Enes Yavuz

About Me	<p>PhD candidate in economics with a strong background in econometrics and casual inference.</p> <p>Over 5 years experience in Python (pandas, numpy, scipy, statsmodels, scikit-learn) and R (tidyverse).</p> <p>Worked in teams on multiple projects contributing to the research question, econometric analysis, and coding.</p>
Contact Info	<p>✉ eeey@u.northwestern.edu ☎ 312-479-7891 🔗 eeeyz.me linkedin.com/in/eeeyz/ 📄 Academic CV</p>
Education	<p>Ph.D., Economics, Northwestern University, <i>Evanston</i>, June 2023 (Anticipated)</p> <p>Econometrics, Time Series, Applied Macroeconomics, Industrial Organizations, Deep Learning</p> <p>MA, Economics and Finance, CEMFI, <i>Madrid</i>, 2017</p> <p>Microeconometrics, Statistics, Quantitative Macroeconomics, Empirical Industrial Organizations</p> <p>BA & BS, Economics & Mathematics (double major), Boğaziçi University, <i>Istanbul</i>, 2015 <i>with honor</i></p>
Projects	<p>Childhood Skill Formation and Intergenerational Earnings Mobility Trends, [Job Market Paper]</p> <ul style="list-style-type: none">• Childhood skills are produced with parental investment, i.e., time and expenditure, and have long-term consequences in adulthood.• I provide a new estimation without restrictive assumptions and find new results with significant implications.<ul style="list-style-type: none">• <i>Result I</i>: Possible to recover any missing parental investment at an earlier age by investing for children now, i.e., investments at different ages are substitutes.• <i>Result II</i>: Return on parental investment gets quickly low for more educated parents as they invest more.• More inequality in parental investment does not lead to less mobility in income distribution across generations since children of high-income parents benefit little from a large increase in parental investment because of low returns.• I use Stochastic EM Algorithm with quantile regressions to estimate the complex empirical model. <p>Taxes and Transfers with Nonlinear Wage Dynamics, <i>with</i> Nezh Guner.</p> <ul style="list-style-type: none">• Estimate a nonlinear and nonnormal wage process to capture rich productivity dynamics.• Study implications for insurance mechanisms (progressive taxation and transfers) in a lifecycle model.• <i>Result</i>: Insurance mechanisms are less valuable for poor but more valuable for rich people. <p>Invention and Technological Leadership during the Industrial Revolution, <i>with</i> Carl Hallmann and Lukas Rosenberger.</p> <ul style="list-style-type: none">• First empirical cross-country (France and Britain) evidence on innovation during the Industrial Revolution.• Use historical patent data and generate additional data/variables using following tools;<ul style="list-style-type: none">• Machine Learning to predict nationality from names, OCR with Python to digitize more data,• <i>Result I</i>: France was as innovative as Britain and even more advanced in some sectors.• <i>Result II</i>: Causal effect of technology transfer from Britain to France is local to more related sectors. <p>Are Recurrent Neural Networks (RNN) Useful for Macroeconomic Forecasting? <i>with</i> Carl Hallmann and Federico Puglisi.</p> <ul style="list-style-type: none">• Compare performance of RNN with Bayesian VAR in predicting macro variables e.g. GDP, inflation, Fed rate.• RNNs performs similar to Bayesian VAR, but adding autocoder with more info improves the performance.
Other	<p>Bring Your Own Data Working Groups, Fall 2020 - Spring 2022</p> <ul style="list-style-type: none">• Weekly meetings with researchers from different disciplines e.g. engineering, biomedical and social sciences.• Researchers make a presentation about progress of their data-oriented project and exchange feedback.
Experience	<p>Teaching Assistant, Northwestern University, 2018 - 2021.</p> <ul style="list-style-type: none">• Prepare and teach weekly practice sessions, held office hours. <p>PhD Dissertation Internship, Federal Reserve Bank of St. Louis, 2022 Summer.</p> <ul style="list-style-type: none">• Presented my research in a workshop and interacted with economists of research department. <p>Research Assistant, Prof. Walker Hanlon, Northwestern University, 2021 Winter.</p> <ul style="list-style-type: none">• Geocoded historical patent data, developed and estimated an empirical model for inventor mobility. <p>Research Assistant, Prof. Marti Mestieri, Federal Reserve Bank of Chicago, 2020 Winter.</p> <ul style="list-style-type: none">• Constructed a price distribution allowed to build an endogenous growth model with nonhomothetic preferences. <p>Research Assistant, Prof. Monica Martinez-Bravo, CEMFI, 2016 Summer.</p> <ul style="list-style-type: none">• Collected data on Indonesian mayors and did regression analysis.
Skills	<p>Python (pandas, numpy, scipy, statsmodels, matplotlib) and R (tidyverse).</p> <p>Time Series, Forecasting, Recurrent Neural Networks, Econometrics, Causal inference.</p>