

Haydar Evren

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EDUCATION

Boston College

Chestnut Hill, MA

Ph.D. in Economics

May 2022 (Expected)

- *Awards:* Donald J. White Teaching Excellence Award, H. Michael Mann Research Fund

M.A. in Economics

May 2018

- *Coursework:* Applied Econometrics and Big Data, Statistics, Nonlinear Econometrics, Market Design, Mechanism Design

The Data Incubator

New York, NY

Data Science Certification – Fellowship Program

Nov. 2021

- *Coursework:* Data Structures, Algorithms, Databases, Machine Learning, Distributed Computing, NLP, Deep Learning

Bogazici University

Istanbul, Turkey

B.S. in Electrical Engineering & Mathematics (Double Major)

May 2014

- *Coursework:* Probability, Optimization, Linear Algebra, Numerical Methods, Multivariate Calculus, Signal Processing
- *Awards:* Dean's Honor List, Academic Excellence Scholarship

WORK EXPERIENCE

Boston College

Chestnut Hill, MA

Doctoral Researcher, Department of Economics

Sep. 2018 – Present

- Utilized graph theory, statistics, and Python to create an algorithmic solution for affirmative action problem affecting 12k jobs.
- Presented research papers at 9 national and departmental seminars to audiences ranging from 10 to 30+ people.
- Supported 2 faculty, leading academics in market design, with proofreading and writing referee reports.

Instructor & Teaching Assistant, Department of Economics

Sep. 2016 – Present

- Taught 4 courses to 30-90 undergraduate and graduate students per semester; received a teaching excellence award.
- Courses included: Forecasting Techniques (Graduate Level), Machine Learning for Economics, Microeconomics Theory
- Supervised a team of 3 doctorate students that led discussion sections for 200+ students in Econometrics Labs.
- Assisted 4-6 graduate students per semester across M.S. in Applied Economics Program as a graduate tutor.
- Served as a TA for Econometrics (Ph.D. Level), Statistics (Ph.D. Level), Game Theory, and International Trade courses.

Harvard University

Cambridge, MA

Graduate Teaching Assistant

Jun. 2020 – Present

- Guided review sessions for groups of 20-60 professionals pursuing graduate degrees and led occasional lectures.
- Supervised group case studies, graded problem sets and exams, and held flexible on-call office hours (rating of 4.75/5).

The Data Incubator

New York, NY (Remote)

Data Science Fellow, Data Science Bootcamp (3% of Ph.D.s accepted)

Sep. 2021 – Nov. 2021

- Utilized NLP, transfer learning, deep learning, and Flask to build a beer recommendation system in a fully deployed web app.
- Built a stock analysis web app that retrieves data from Alpha Vantage and creates financial analysis using Bokeh and Flask.
- Utilized Python, scikit-learn, SQL, Spark, Keras, and BeautifulSoup to design and implement 7 data science projects.

dData

Cambridge, MA

Data Science Intern, Fintech Startup at Harvard Innovation Lab

Jun. 2021 – Aug. 2021

- Utilized R and AWS to implement machine learning techniques for the nowcasting of economic indicators on 30GB data.
- Led the project for 5 pilot countries and improved several tasks in the pipeline; boosted the model performance by 30%.
- Tasks included: multivariate time series imputation, supervised dimensionality reduction, time series forecasting
- Profiled existing code and delivered algorithmic improvements; reduced the total process time by 20%.
- Pitched to investors from Asian Development Bank detailing performance and interpretability of the model.

Revolutionary Integration Group

Bethany, CT (Remote)

AI/ML Software Engineer Intern

May 2021 – Aug. 2021

- Utilized Python and TensorFlow to develop the backend of a mobile web app that enables fast, touchless entry to venues.
- Automated visual verification, data extraction, and fraud detection; reduced unauthorized access in simulations by 20%.
- Tasks included: face verification, text extraction for ID cards, data validation, dynamic trust level assignment
- Presented results to CEO and wrote requested executive summary detailing value proposition and project financial plan.

Bogazici University

Istanbul, Turkey

Graduate Teaching Assistant, Department of Economics

Sep. 2014 – Aug. 2016

- Conducted weekly problem-solving sessions and held office hours for 5 courses.
- Courses included: Mathematical Methods for Economics (Graduate Level), Computing for Economics and Management

Turkcell

Istanbul, Turkey

Business Analyst Intern, Telecommunication Service Provider

Jun. 2013 – Aug. 2013

- Collaborated with a multidisciplinary team at leading mobile phone operator of Turkey.
- Built business strategies for the digital learning platform project and acted as technical liaison between departments.

MILTEK

Istanbul, Turkey

Engineering Intern, Electronics R&D

Jun. 2012 – Aug. 2012

- Developed signal processing algorithm of life-detection system for rescuing human subjects under rubble using MATLAB.

TECHNICAL SKILLS

Languages : Python, R, SQL (MySQL, PostgreSQL), MATLAB, Stata, HTML/CSS, LaTeX, C++, Julia

Framework/Tools : Scikit-Learn, TensorFlow, PySpark, PySpark ML, PyTorch, H2O, AWS, Docker, Unix, Git

Machine Learning : Regression, Classification, Bayesian Inference, Ensemble Methods (XGBoost, Random Forest), NLP (Word2vec, BERT), Deep Learning, Feature Engineering, Reinforcement Learning, Time-Series Analysis, A/B Testing

OTHER AWARDS AND ACTIVITIES

- Competed in various college snowboard championships, 2009-2014
- 2nd place in National Math Olympiads & Member of Turkish Team at International Mathematical Olympiads, 2008