

FARRAH NEKUI

Email: Nekui.F@husky.neu.edu

Cell: (617) 304-6580

Office: 302 Holmes Hall, Northeastern University, Department of Economics

EDUCATION

Northeastern University, Boston, MA

Ph.D. in Economics – Industrial Organization, 2016-Present

M.A. in Economics, 2013-2015

Allemeleh Tabatabaei University, Tehran, Iran

B.S. in Business Economics, 2008-2012

RESEARCH EXPERIENCE

Research Assistant for Kathrin Zippel (NSF Funded project)

May 2019-Present

Assisted in investigating the evolution, structure, and impact of the ADVANCE grants created by NSF.

Wrote an algorithm to match our sample of researchers to authors on Microsoft Academic Graph using Google Big Query, Google Maps API, and Python.

Visualized network development and mapped job mobility of individuals involved in ADVANCE grants using Python and R.

Research Assistant for Jeanne Madden

May 2017-Present

Conducted research on cost-related medication nonadherence following Medicare part D using logistic regression and confirmatory and explanatory factor analysis in SAS.

Research Assistant for Bilge Erten

May 2017-August 2017

Assisted in a research on “Education and the Prevalence of Domestic Violence in Turkey.”

Collected data on average nightlight consumption of each county in China by processing satellite images using ArcGIS.

WORK EXPERIENCE

Summer Associate, Vestigo Ventures (Cogo Labs), Cambridge, Massachusetts

May 2017-December 2017

Co-developed a proprietary machine learning application using web scrapping, natural language processing and machine learning ensemble methods to identify viral financial technology startups that are aligned with Vestigo Ventures investment thesis. Application creation led to a sizable investment in fast-growing startups in fintech.

Created analytic dashboard for each portfolio company to break down their top competitors with insights on their web traction, search engine marketing, and email strategies in order to monitor their market perspectives.

Interviewed startup founders for future investments. Performed due diligence and conducted autonomous market analysis on prospective deals. Wrote comprehensive deal memos.

Met with top leaders in financial technology industry in order to research vanguard technologies such as the blockchain technology, artificial intelligence, and their financial applications.

Energy Analytics Intern, AdaptiveAlgo Systems Inc. Boston, Massachusetts

February 2016-April 2016

Utilized statistical and machine learning techniques including regression, support vector machine, classification, and clustering using R and Python for anomaly detection and pattern recognition in energy consumption.

Created graphs, tutorials, and case study papers to present data analytics in a user-friendly format.

Data Intelligence Intern, EnerNOC, Boston, Massachusetts**July 2014-December 2014**

Conducted in-depth data analysis to detect faulty electrical meters and recommend business actions based on analytical findings.

Developed an algorithm using R Programming Language to set up the high read threshold applicable to all data streams for identifying outliers and presenting them as anomalous spikes.

Wrote programs to automate the process of extracting, aggregating, and transforming large datasets using SQL queries, generating reports, and creating dashboards on key statistics and financial grade metrics for executive audiences.

Sales Analyst, Pakfam, Tehran, Iran**March 2010-August 2011**

Performed in-depth analysis of sales data to detect trends and model customer buying pattern.

Conducted sales channel analysis to estimate the channels' effectiveness. Effectively communicated the results of analysis to sales managers.

TEACHING EXPERIENCE**Instructor**

Programming with Data: Social Science Practicum - Spring 2020

Recitation for Principles of Microeconomics - Fall 2018, Spring 2019, Fall 2019

Teaching Assistant

Macroeconomics (graduate-level), Spring 2018

History of Global Economy, Spring 2018

A Critique of Capitalism, Spring 2018

Microeconomics Theory, Fall 2017

Economics of Sports, Fall 2016

PAPERS IN PROGRESS

The Impact of Mergers on Entry Decision: Analysis of Alaska Airlines-Virgin America Merger

Legacy vs. Low-Cost Carriers: Introduction of JetBlue Mint

The Butterfly effect of Boeing 737 MAX groundings – the Cross-Market Spillover of a Supply Shock

Cost-Related Medication Nonadherence and its Predictors among Medicare Beneficiaries in 2016 (under review)

SOFTWARE SKILLS

Python, R Programming Language, STATA, SAS, SQL, Tableau, ArcGIS, Microsoft Office