

## Education

- 2022–2027 **PhD in Economics.**  
New York University, NY, USA
- 2015–2019 **BS in Computer Engineering.**  
Sharif University of Technology, Tehran, Iran  
cumulative GPA: **19.08/20**

## Research Interest

**Optimization - Optimal Transport - Neural Networks - Experimental Design.**

## Work Experience

- 2020-2022 **Predoctoral research fellow, UCLA and USC.**  
I worked on disentangling the complex relationship between genetic factors and behavioral traits. I was responsible for solving statistical models and implementing efficient solutions scalable to terabytes of data. This effort led to papers published in Nature and the development of statistical software regularly used by practitioners in the field.
- 2019 **Data Scientist, Cafe bazaar.**  
Cafe Bazaar is an Iranian Android marketplace with more than 50 million active users. There, I worked on optimizing the advertising auctions and evaluating them empirically. Due to my technical background, I also participated in the creation, implementation, and deployment of the machine learning models needed for resolving auctions.

## Research

Published

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Preprints

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Work in progress

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## Software

**gconvex**, [available here](#) .

Implements Finitely Convex Models developed in Universal Representation of Generalized Convex Functions and their Gradients. The models are used to find optimal selling mechanism with single buyer and multiple goods. The results match the theoretical optimal benchmark and are quick to be found even on personal computers.

**SNIPar**, [available here](#) .

A python library for fast imputation of missing parental genotypes from observed genotypes in a nuclear family, performing family-based genome-wide association and polygenic score analysis

**poissonreg**, [available here](#) .

A lightweight python package for fast sparse poisson regression based on pytorch

## Technical skills

**Python/Java/Cython** Expert

**Pytorch/Scikit/Spark** Experienced

## Awards and Honors

Among top 0.05% in Iran's national university entrance exam.  
Member of Iran's National Elites Foundation.

## Languages

Persian(native)/ English(Fluent)/ Arabic(basic)

## References

name	email address
○ Prof. Alfred Galichon Courant Institute of Mathematical Sciences & Department of Economics, NYU	○ ag133@nyu.edu
○ Prof. David Cesarini Department of Economics, NYU	○ dac12@nyu.edu
○ Prof. Daniel Benjamin Anderson School of Management, UCLA	○ daniel.benjamin@anderson.ucla.edu