

Education

- 2022–2027 **PhD in Economics.**
New York University, NY, USA
- 2015–2019 **BS in Computer Engineering**, *Focused on statistics and theoretical computer science.*
Sharif University of Technology, Tehran, Iran
cumulative GPA: **19.08/20**
Among a class of top 0.05% in Iran's national university entrance exam

Research Interest

Economic Theory - Applied Microeconomics - Econometrics and Machine Learning.

Work Experience

- 2020-2022 **Predoctoral research fellow**, *UCLA and USC.*
Working on geneoconomics under Daniel Benjamin, Alexander Young, and David Cesarini, there I leveraged my knowledge of statistics and computation to attack huge genetic datasets and investigate the relationship between behavioral traits and genetics
- 2019 **Auction Design consultant**, *Cafe bazaar.*
Cafe bazaar is an Iranian android marketplace with 50 million users. There, I worked on optimizing the advertisement auctions and empirical evaluation of them. Because of my technical background, I also took part in creating and deploying the machine-learning models the auctions depended on.

Publications

Mendelian imputation of parental genotypes for genome-wide estimation of direct and indirect genetic effects, *published in Nature genetics.*

Polygenic prediction within and between families from a 3-million-person GWAS of educational attainment, *published in Nature genetics.*

Parents' genes affect their child's educational achievement through the environment: evidence from three-generation polygenic index analysis, *Submitted to Science.*

Novel estimators for family-based genome-wide association studies increase power and robustness, *Working paper.*

Building Stable Off-chain Payment Networks, *working paper.*

Softwares

SNIPar, *Github*.

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

Technical skills

Python/Java Expert	Pytorch/Scikit Experienced
Scientific Programming Expert	C/C++/R/SQL Experienced
Pytorch/Scikit Experienced	

Economics-Relevant Coursework

Economics:.

The graduate first-year sequence in Microeconomics, Macroeconomics, and econometrics/ Algorithmic Game theory (19.9/20)/ Mechanism design[graduate at Stanford] (audited)/ System Dynamics[graduate] (20/20)

Statistics and machine learning:.

Causal inference[graduate] (20/20)/ Information theory[graduate] (18.9/20)/ Deep learning[from Google] (audited)/ Machine learning (audited)/ Probability and Statistics (20/20)

Mathematics:.

Mathematical Analysis (A)/ Linear algebra (20/20)/ Multivariate-Calculus (18/20)/ Differential equations (19.1/20)/ Numerical methods (19.3/20)

Theoretical computer science:.

Design and analysis of algorithms[with a focus on graph algorithms] (18.8/20)/ Discrete mathematics (19.6/20)/ Theory of languages and automata (19.1/20)/ Computability theory (20/20)

Computer engineering(with a focus on data):.

Database design (18.7/20)/ Modern information retrieval (18.6/20)/ Advanced programming (19.7/20)/ Fundamentals of programming (20/20)/ Compiler design (20/20)

Summer Schools

- 2021 **Summer Institute in Social-Science Genomics**, Social Science Genetic Association Consortium.
- 2019 **Big data in economics**, Tehran Institute for Advanced Studies.
- 2019 **Economics of Cryptocurrencies**, Tehran Institute for Advanced Studies.

Awards and Honors

Among top 0.05% in Iran's national university entrance exam.

Member of Iran's National Elites Foundation.

INEF regards its young members as those who will lead Iran's future in science, culture and art

Languages

Persian(native)/ English(advanced)/ Mazandarani(intermediate)/ Arabic(basic)

References

name	email address
○ Prof. Daniel Benjamin Anderson School of Management, UCLA	○ daniel.benjamin@anderson.ucla.edu
○ Dr. Alexander Young Anderson School of Management, UCLA	○ alexander.young@anderson.ucla.edu
○ Prof. David Cesarini Department of Economics, NYU	○ dac12@nyu.edu