

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

Economics with the flavor of computer science, *Applied Microeconomics - Economic Theory - Genoeconomics - Economic history.*

Work Experience

- 2020-2022 **Predoctoral research fellow**, *UCLA and USC.*
Working on genoeconomics under Daniel Benjamin, Alexander Young, and David Cesarini
- 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 it

Papers

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.*

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

Understanding Iran's brain drain, a system dynamics approach, *Working paper.*

Can the existence of information in the market be tested?, *Working paper.*

Teaching Experience

Graduate:.

Information theory: held review sessions

Algorithmic game theory: Designed problem sets and graded them

Social and economic networks: Designed problem sets and graded them

Undergraduate:.

Probability and Statistics: held review sessions-Designed problem sets and graded them

Advanced Programming: Designed problem sets and graded them

Numerical methods: Designed problem sets and graded them

Economics-Relevant Coursework

Economics:.

Microeconomics[graduate at UCLA] (A)/ 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:

Linear algebra (20/20)/ Multivariate-Calculus[with some analysis] (18/20)/ Differential equations (19.1/20)/ Numerical methods (19.3/20) / Economics math camp[graduate at UCLA] (audited)

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

2019 **Big data in economics**, Tehran Institute for Advanced Studies.

2019 **Economics of Cryptocurrencies**, Tehran Institute for Advanced Studies.

Softwares

SNIPar, *Github* .

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

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)

Technical skills

Python Expert

R Experienced

Matlab Intermediate

Stata Working Knowledge

Java Expert

C/C++ Experienced

SQL Experienced with Postgresql

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
○ Prof. Amin Fazli Department of Computer Engineering, Sharif University of Technology	○ fazli@sharif.edu
○ Prof. Farshad Hagh-Panah Department of Economics, TelAS	○ f.haghpanah@teias.institute