

Parnian Shahkar

Education

University of California, Irvine

PHD STUDENT IN COMPUTER SCIENCE

Irvine, CA, USA

Aug. 2022 - present

Swiss Federal Institute of Technology - ETH Zurich

M.SC IN TECHNOLOGY, ECONOMICS AND MANAGEMENT

Zurich, Switzerland

Sep. 2020 - Aug. 2022

Sharif University of Technology

B.SC IN ELECTRICAL ENGINEERING **MINORED** WITH COMPUTER SCIENCE

Tehran, Iran

Sep. 2015 - Aug. 2020

Research Experiences

Department of Computer Science at University of Illinois Urbana Champaign

VISITING RESEARCHER, HOST: PROF. RUTA MEHTA

Champaign, IL, USA

July. 2024 - Sep. 2024

- Fair Division, Algorithm Design under Unertainty, Incentive Design For Federated Learning

Department of Computer Science at University of California, Irvine

DOCTORAL RESEARCH ASSISTANT, SUPERVISOR: PROF. IOANNIS PANAGEAS

Irvine, CA, USA

Aug. 2022 - Present

- Algorithmic Design

Innovation and Policy Lab at ETH Zurich

MASTER'S THESIS ON NEW CONSENSUS MECHANISMS FOR PoS BLOCKCHAINS, SUPERVISOR: PROF. HANS GERSBACH

Zurich, Switzerland

Sep. 2021 - Aug. 2022

- Studying the effect of free vote delegation in proof-of-stake blockchains

KOF Swiss Economic Institute at ETH Zurich

RESEARCH ASSISTANT UNDER THE SUPERVISION OF PROF. MARTIN WÖRTER AND PROF. MICHAEL KÖNIG

Zurich, Switzerland

Feb. 2021 - Feb. 2022

- Examining the economic consequences of the Covid-19 pandemic in Switzerland using web-crawling and text-mining tools applied to company websites

System's Control and Robotics department at KTH Royal Institute of Technology

RESEARCH INTERN ON LEARNING FOR CONTROL SYSTEMS, SUPERVISOR: PROF. KARL HENRIK JOHANSSON

Stockholm, Sweden

June. 2019 - Sep. 2019

- Modeling the spiking neurons' gap junctions as voltage-dependent conductances and comparing this approach's effect on synchronization to a constant conductance model

Advanced Communications Research Institute at Sharif university of Technology

BACHELOR'S THESIS ON DEEP LEARNING, SUPERVISOR: PROF. BABAK KHALAJ

Tehran, Iran

Aug. 2018 - June 2019

- Proposing methods for efficient representation of drug data by inspiration from natural language processing models
- Implementing a Recurrent Neural Network for predicting the chemical properties of drugs

Ambient intelligence research(A.I.R) Lab at Sharif University of Technology

RESEARCH ON MACHINE LEARNING IN COMPUTER VISION, SUPERVISOR: PROF. KARBALAI AGHAJAN

Tehran, Iran

Oct. 2017 - Feb. 2018

- Implementing an SVM classifier with HOG features, for motion-tracking and action-recognition

Professional Experiences

Cafebazaar company

DATA SCIENCE INTERNSHIP IN R&D SECTION OF DIVAR(AN ONLINE ADVERTISING COMPANY)

Tehran, Iran

June. 2018 - Sep. 2018

- Implementing a natural language processing (NLP) model that uses raw text from user ads and classifies them

Computer Skills

Programming Language and Platforms

PYTHON, JAVA, C/C++, MATLAB, R, TENSORFLOW, OPENCV, STATA, AVR ASSEMBLY AND C

Simulation and Design Software

BRIAN2, NEURON, MODELSIM, ORCAD PSPICE, SYNOPSIS HSPICE, ALTIUM DESIGNER

Languages

Persian

NATIVE

English

FLUENT

• TOEFL score: 111

French

A2 LEVEL

German

A1 LEVEL

Honors & Awards

2022	PhD Scholarship , University of California, Irvine	Irvine, CA, USA
2019	1st place , Siemens challenge, HackZurich competition 2019	Zurich, Switzerland
2019	1st Place , among all summer research interns in the System's Control and Robotics department of KTH Royal Institute of Technology	Stockholm, Sweden
2015	57th among 180'000+ students , National University Entrance Exam- Math and Physics	Tehran, Iran
2016	Finalist , 2nd MakeAthon(Making Marathon) competition at Sharif University of Technology	Tehran, Iran
2015	Recipient , of the grant for undergraduate students, courtesy of Iran's National Elite Foundation	Tehran, Iran
2015-2020	Member , of National Elite Foundation of Iran	Tehran, Iran
2015-2020	Member , of Exceptional Talents Foundation of Iran	Tehran, Iran
2018	Teaching Assistant , for several undergraduate courses at Sharif University of Technology	Tehran, Iran
2017	Deputy Director , of the Electrical Engineering Department's Scientific Society	Tehran, Iran
2017	Guide of Hungarian team in IOI2017 , International Olympiads in Informatics held in Tehran	Tehran, Iran
2016	Designing questions , for the Mathematics and Physics sections of Ghalamchi examinations, with more than 20'000 participants.	Tehran, Iran
2016	Teacher , of Mathematics and physics at Kooshesh High school	Tehran, Iran