

Arman SEPEHR

CONTACT DETAILS

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✉ **Residency:** Tehran, Iran

RESEARCH INTERESTS:

- Computational Social Science
- Theoretical Machine Learning
- Deep Neural Network

SOFT SKILLS

- Problem Solver
- Team-Oriented
- Self-Starter
- Quick Learner

TEACHING:

- Lecturer, SUT, OS(2016)
- Head TA, SUT, ML(2016)
- Head TA, SUT, OS Lab(2013)
- Head TA, SUT, OS (2012)
- TA, SUT, ML (2012)
- TA, SUT, Signal and Systems (2012)
- TA, SUT, Data Structures (2008)
- School teacher with honor, math, programming as well as Olympiad in NODET school. October 2011-2016

LANGUAGES/FRAMEWORKS

- Latex (8 yrs)
- Python (8 yrs)
- Java (5 yrs)
- PHP (5 yrs)
- C/C++ (4 yrs)

OTHER SKILLS

Deep Tools: Keras, PyTorch

Tools: Git/GitHub, Unix Shell, VS Code

Frameworks: Django, Flask, Laravel, Spring

Databases: NoSQL, MySQL, PostgreSQL

REFERENCES:

- Prof Hamid Beigy, Professor at CE Department of SUT, beigy@sharif.edu
- Prof MT. Manzuri, Asso. Professor, CE Department of SUT, manzuri@sharif.edu

PERSONAL INFORMATION

- **Birth:** 1989
- **Languages:** English (Proficient)
- **Family status:** Married

SUMMARY

Experienced researcher with a Ph.D. in Artificial Intelligence, specializing in computational social science, machine learning, and big data analysis. Proven track record of leading technical teams and conducting pioneering research in epidemiological networks and information propagation. I have a good knowledge in NLP methods and deep learning techniques, with a strong interest in advancing research on LLM methods.

EDUCATION

PHD IN ARTIFICIAL INTELLIGENCE.

2016–2022

Sharif University of Technology.

GPA: 3.7/4.0

◇ Thesis title: *Information and influence propagation in social networks*

◇ Probability Graphical Models, Deep Learning, Machine Learning theory and Optimization Algorithm.

MSC IN ARTIFICIAL INTELLIGENCE.

2011–2013

Sharif University of Technology.

GPA: 3.5/4.0

◇ Thesis title: *Multi-class classification of Stream data*

◇ Ensemble Learning, Boosting Algorithm, Massive Data Processing and Classification methods.

BSC IN COMPUTER ENGINEERING.

2007 – 2011

Sharif University of Technology.

GPA: 3.4/4.0

HONORS

- Awarded Internship Scholarship, Max-Planck Institute for Software System(MPI-SWS), Kaiserslautern Germany, 2018
- ITRC Research Grant Award, Telecommunication Research Center(ITRC) Research Grant, awarded to my PhD thesis, 2018.
- Awarded Fellowship of Exceptional Talents, Sharif University of Technology for Master of Science, 2011
- Ranked 3rd student of BS, Department of Computer Engineering, Sharif University of Technology, 2011.

PUBLICATIONS

- Arman Sepehr and Hamid Beigy, "Epidemiological Network of COVID-19: Contribution of Each Country in the Pandemic", submitted to Expert System with Application.
- Arman Sepehr and Hamid Beigy, "Structural Virality Estimation and Maximization of a Cascade in Social Networks", Expert System with Application, 2022.
- Arman Sepehr et al., "Revert Propagation: Who are responsible for a contagion initialization in a Diffusion Network?", IKT 2020
- Arman Sepehr and Hamid Beigy. "Viral Cascade Probability Estimation and Maximization in Diffusion Networks:", IEEE TKDE 2018.

EXPERIENCE

Technical Lead | Aras DP, Ghadir Group, Iran

Apr. 2023 – Now

Organized the technical team across multiple projects focused on AI in Finance. We're focusing on algorithmic trading and create a super application to gather all finance service into one place.

Data Engineer | Fieldstream, Stockholm, Sweden

Jul. 2021 - Apr. 2023

I was responsible for designing and implementing an ELT pipeline, leveraging modern data integration techniques to efficiently extract, load, and transform data for analysis and reporting purposes.

Big-data Researcher | Parsa-Sharif, Tehran, Iran

Jan 2014 — Jan. 2016

I conducted extensive research on big data platforms to enhance the SIEM system's capabilities and effectiveness.