

Parsa KamaliPour | CV

Kerman – Iran

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📄 eBNZsM0AAAAJ

Education

Vali-e-Asr University of Rafsanjan

Rafsanjan, Iran

B.Sc. Computer Engineering

2018–Present

- Last two years GPA without calculating summer semester: 17.37/20 (3.71/4.00)
- CGPA: 16.66/20 (3.419/4) with 124 credits passed so far
- Major Area: Software Engineering.
- Thesis: Community detection in complex network based on an improved random algorithm using local and global network information
- Thesis grade: 20/20 (4.0/4.0)

Publications

- Fahimeh Dabaghi-Zarandi, **Parsa KamaliPour**, "Community detection in complex network based on an improved random algorithm using local and global network information," *Journal of Network and Computer Applications*, issn.1084-8045, p.103492, Aug 2022, doi.🔗 Q1, Impact factor: 7.574
 - Fahimeh Dabaghi-Zarandi, Mohammad Mehdi Afkhami*, Mohammad Hosein Ashoori*, **Parsa KamaliPour***, Mohammad Amin Ahmadi*, "Solving community detection with an customized genetic algorithm." (*in preparation*)
 - Fahimeh Dabaghi-Zarandi, **Parsa KamaliPour***, Mohammad Amin Ahmadi*, Mohammad Hosein Ashoori*, Mohammad Mehdi Afkhami*, "A deep learning approach to community detection." (*in preparation*)
- * authors' name orders aren't decided yet

Experience

Research

Undergraduate Research Assistant 🔗

Rafsanjan, Iran

Department of Computer Engineering, Vali-e-Asr University of Rafsanjan

Aug 2021–Present

- Supervisor: Dr. Fahimeh Dabaghi-Zarandi
- Field: Community Detection
- My responsibilities include: Investigation, Data curation, Software & Programming, Validation, Writing primary draft preparation.

Teaching

Undergraduate Teaching Assistant

Rafsanjan, Iran

CE Department, Vali-e-Asr University of Rafsanjan

Mar 2021–Present

Introduction to Information Retrieval

- ▶ Dr. Mojtaba Sabbagh-Jafari, solo TA (Spring 2022 🔗)

Design and Analysis of Algorithms

- ▶ Dr. Fahimeh Dabaghi-Zarandi, Head TA (Fall 2022 🔗 , Spring 2022 🔗 , Fall 2021 🔗 , Spring 2021 🔗)

Data Structures

- ▶ Dr. Fahimeh Dabaghi-Zarandi, Head TA (Fall 2022 🔗 , Spring 2022 🔗 , Fall 2021 🔗 , Spring 2021 🔗)

Database

- ▶ Dr. Mojtaba Sabbagh-Jafari, Head TA (Fall 2022 🔗)

Fundamentals of Programming

- ▶ Dr. Amir Hossein Hadjhamdi, Head TA (Fall 2022 🔗)

Discrete Mathematics

- ▶ Dr. Fahimeh Dabaghi-Zarandi, TA (Spring 2022 🔗 , Fall 2021 🔗)

Operating Systems

► *Dr. Fahimeh Dabaghi-Zarandi, Grading TA (Spring 2022 [↗](#))*

Instructor for The Summer Coding Bootcamp

Vali-e-Asr University Scientific Association of Computer Engineering

Python Private Tutor

Freelance

Rafsanjan, Iran

Summer 2022

Kerman, Iran

Summer 2022

Others.....

Team Co-Founder & Game Developer

Null References [↗](#) , Indie Game Development Team

Feb 2020–Present

Research Interests

- Design & Analysis of Algorithms
- Graph Algorithms
- Algorithmic Game Theory
- Data Mining
- Machine Learning
- Deep Learning
- Community Detection

Selected Relevant Coursework

Fundamental of Programming: 20/20

Software Engineering Lab: 20/20

Software Engineering: 18.75/20

Digital Logic Design: 19.45/20

Introduction to Data Mining: 17.5/20

★ *Click here to see more [↗](#)*

Advance Programming: 16.5/20

System Analysis and Design: 20/20

Design and Analysis of Algorithms: 18/20

Computer Architecture: 18.97/20

Information Retrieval: 18.5/20

Selected Projects

Introduction to Data Mining [↗](#)

Multiple assignments regarding to the Intro to Data Mining course

Spring 2022

SYMPHONYC: The database of a music streaming service similar to Spotify. [↗](#)

One project regarding to the Database course

Fall 2021

Uncertainty: an action-adventure space-shooter game built with Unity3D [↗](#)

Null References [↗](#)

Spring 2021

- Uncertainty is an action-adventure space-shooter game, and currently It's under development.
- We have used the beta version of this game as our "Software Engineering Lab" course project.

Two projects regarding to Introduction to Information Retrieval course [↗](#)

Projects:

Spring 2021

The Scrapy Crawler, Inverted Index Construction using BSBI Algorithm

Multiple projects regarding to Design and Analysis of Algorithms course [↗](#)

Designing and implementation of:

Fall 2020

The Closest Pair of Points Problem, Sudoku Solver, Tournament Scheduler, Huffman Coding, Bellman–Ford, Matrix Chain Multiplication, N-Queens Solver Traveling Salesman Problem

Multiple projects regarding to Data Structures and Algorithms course [↗](#)

Designing and implementation of:

Fall 2019

the Red-Black Tree, the AVL Tree, the Trie Dictionary, Threaded Binary Tree, the Sparse Matrix via Linked List, the Rat in the maze problem

★ *Click here to see more projects [↗](#)*

Test Scores

TOEFL: Not taken yet

GRE: Not taken yet

Honors and Awards

Ranked 6th among undergraduate students of Computer Engineering

Vali-e-Asr University of Rafsanjan, Entrance Year of 2018

2018–Present

Awarded by government undergraduate tuition waiver scholarship

Vali-e-Asr University of Rafsanjan

Extra Curricular Activities

Chairman of Teaching Assistant Committee

Vali-e-Asr University Scientific Association of Computer Engineering

July 2022–Present

Member of Teaching Staff

Vali-e-Asr Collegiate Programming Contest (VCPC)

Sep 2021–Jun 2022

Member of Scientific Staff

Vali-e-Asr University Scientific Association of Computer Engineering

May 2019–Jun 2021

Member of Executive Staff

Vali-e-Asr Video Games Association

Oct 2020–Jun 2021

Skills

Frameworks & Libraries: Qt, Numpy, Pandas, Matplotlib, NetworkX, Scikit-learn

Tools: Jupyter, L^AT_EX, Git, Markdown, Linux, Microsoft office, Obsidian

Game Development: Unity

★ *Click here to see more in LinkedIn* ↗

Programming Languages: C, C++, Python, MATLAB, C#, Java, SQL

Software Engineering: Refactoring, Debugging, Unit Testing, Agile mythology

Soft Skills: Team Work, leadership, Collaboration

Languages

Persian: Native language

English: Fluent

References

Dr. Fahimeh Dabaghi-Zarandi

Assistant Professor, f.dabaghi@vru.ac.ir

Department of Computer Engineering, Faculty of Engineering, Vali-e-Asr University of Rafsanjan

Rafsanjan, Iran

Dr. Mojtaba Sabbagh-Jafari

Assistant Professor, mojtaba.sabbagh@vru.ac.ir

Department of Computer Engineering, Faculty of Engineering, Vali-e-Asr University of Rafsanjan

Rafsanjan, Iran

Dr. Amir Hossein Hadjahmadi

Assistant Professor, hadjahmadi@vru.ac.ir

Department of Computer Engineering, Faculty of Engineering, Vali-e-Asr University of Rafsanjan

Rafsanjan, Iran

[August 10, 2022]