Bahareh Robaty Shirzad

•**Email:** bahareh.robaty@gmail.com
•**Tel:** +98-9372781058
LinkedIn: bahareh robaty
Baharrobaty.github.io

EDUCATION

- **Islamic Azad University Science and Research Branch**– Tehran, Iran *2019 - 2023*

Bachelor of Computer Sciences
GPA: 17.49 /20
Awarded two tuition waivers for the last two semesters based on the first-ranked GPA (19.62/ 20).

- **Diploma in Mathematics and Physics**– Tehran, Iran *2016 - 2019*

Hoda High School
GPA: 18.89 /20

NOTABLE COURSES

- Fundamental of Computer & Programming *(19/20)*
- Basics of Logic and Set Theory *(17.5/20)*
- Principles of Operating System (17.5/20)
- Artificial Intelligence *(20/20)*
- Algorithms Design & Analysis *(19/20)*
- Graph Theory & its Application*(19.5/20)*
- Database *(20/20*)

RESEARCH INTERESTS

- Computer Network
- Graphs
- Data Analysis
- Data Science
- Machine Learning
- Artificial Intelligence

TECHNICAL EXPERTISE

- **Programming Languages:** Python, R, MATLAB
- **Database Systems:** MySQL, Oracle, MongoDB
- **Operating Systems:** Windows, Linux
- **Web Development:** HTML, CSS

EXPERIENCES

- **RESEARCH REVIEW**
  - **Assessing Super-Efficiency with Random Forests in the Framework of Free Disposal Hull**
    Advisor: Dr. Mohsen rostami male khalife
    Article review: esteve, m., aparicio, j., rodriguez-sala, j.j. And zhu, j., 2023. Random Forest and the measurement of super-efficiency in the context of free disposal hull. European Journal of operational research, 304(2), pp.729-744.

  - **Bibliometric Analysis of Artificial Intelligence Applications in Cancer Detection**
    Advisor: Dr. Mohsen Rostami Male Khalife
    Article Review: Karger, E. and Kureljusic, M., 2023. Artificial intelligence for cancer detection—a bibliometric analysis and avenues for future research.

- **Investigating Spectral Numerical Techniques for Partial Differential Equations with variable order**
  Advisor: Dr. Mohsen Rostami Male Khalife
  Article Review: Shah, K., Naz, H., Sarwar, M. and Abdeljawad, T., On spectral numerical Method for variable-order partial differential equations, AIMS Math., 7 (2022), 1042210438

- **Artificial Intelligence-Driven Decision-Makin in Agribusiness**
  Advisor: Dr. Mohsen Rostami Male Khalife
  Article Review: Valim Bandeira, M., Ferreira de Souza Móta, L.M.F. and Behr, A., 2022. DECISION-making IN AGRIBUSINESS BASED ON ARTIFICIAL INTELLIGENCE. Brazilian Journal of Management/Revista de Administração da UFSM, 15.

- **TEACHING**
  - TA in "Logic" course under the supervision of Dr. Elham Azadegan *2023*
  - TA in "Dynamic Optimization" course under the supervision of Dr. Zahra Cheraghali *2022*

- **WORK**
  - **Technical Support Staff (Private Company)** *2023-present*
    working with a relational database (Oracle) as a supporter

PROJECTS

- **Designing a Database Schema from a company data requirement** *Jan-2024*
  - Creating an ER Diagram based on the data requirements of a hypothetical company and transforming it into a database schema using MySQL.
- **Polynomial Regression Implementation** *Feb-2023*
  - Conducting a comparative analysis of the accuracy of Linear Regression and Polynomial Regression models on the USA Housing using Python
    Advisor: Dr. Masomeh Sheikh Hassan
- **Graph Algorithms in Artificial Intelligence** *Feb-2023*
  - Definition of GCN, BP and KNN and their application in AI
    Advisor: Dr. Amir Hossein Sharafi
- **Applications of Linear Algebra in Computer Science** *Dec-2021*
  - Uses of linear algebra in different categories including network models, cryptography
    Advisor: Dr. Hamid Rassoli

HONORS AND AWARDS

- Ranked in the top 1% in the Nationwide University Entrance Exam for B.Sc, the competition is intense since is the only means to gain admission to universities. *2019*
- Merit-based acceptance for master's degree in Islamic Azad University, Science and Research Branch, Tehran, Iran

LANGUAGE PROFICIENCY

- **English**: Overall IELTS Academic: 7/C1 (R:8/L:7.5/S:7/W:6) *Mar-2024*
- **Persian** (Native)
- **Arabic** (Basic)