

Koorosh Ahmadi

📍 Tehran, Iran ✉ kooroshahmadi1379@gmail.com ☎ +989122044222 🔗 kouroshahmadi.ir
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Education

- BS** **Roudehen azad university**, biotechnology Sept. 2019 to May 2024
- GPA 16.88/20
 - last semester GPA: 4.0/4.0
 - **Coursework:** Basics of Nanotechnology, Large Scale Production, Cell And Tissue Culture, Biochemistry, Molecular Cell Biology.
- MS** **Tehran Medical Science of Islamic Azad University**, Industrial Microbiology Sept. 2024
- last semester GPA 4.0/4.0
 - **Coursework:** Ecology of Microorganisms, Bioinformatics, Prokaryotic Genetics, Physiology of Microorganisms.

Interests

- Biotechnology in Rare Disease
- Bioinformatics
- Molecular Biology

Experience

- Saghi Medical Laboratory**, Assistant to the Medical Laboratory, Intern Iran
2021
- Collected and processed blood samples from patients for various diagnostic tests.
 - Conducted urine and stool cultures to identify and analyze potential infections or abnormalities.
 - Performed sperm counts and related evaluations for fertility evaluations.

Technical Skills

Skills: Real Time PCR, Sequence alignment

Programming Languages and Tools: Python, R

- **Python:** Proficient in Biopython, Tkinter, Pandas, and Numpy
- **R:** Proficient in data analysis and visualization using libraries such as ggplot2, Limma, Heatmaply, GEOquery, and Entrez
 - **Data Handling:** Experienced in cleaning, preprocessing, and managing large datasets
 - **Statistical Analysis:** Skilled in hypothesis testing, multiple testing correction, and dimensionality reduction (PCA)
 - **Visualization:** Proficient in creating publication-quality figures (scatter plots, heatmaps, volcano plots)

Software: LPIC, SPSS, BioEdit

General Skills

Programming Languages and Tools: Markdown, HTML, Bash, LaTeX, CSS

Software: Adobe Premiere Pro, DaVinci Resolve, Office Suite, LPIC, Vim, Elementor, Wordpress

Technical Projects

- **Genomic Data Analysis:** This project uses Biopython for genomic sequence alignment and mutation detection. [↗](#)
- **Biopython Sequence Fetcher:** Simple app for fetching and displaying DNA sequence data from NCBI [↗](#)

General Projects

- **Minesweeper Game:** Simple Implementation of the Classic Minesweeper Game [↗](#)

General Experience And Awards

Cell Phone Board Repair Course (2021): Asangsm Company

- Specialization in iPhone Hardware and Software Repair.
- Expertise in Android Hardware and Software Repair.
- Proficiency in General Electronics Diagnostics.

Laptop Repair Course (2022): Avajang Company

- Pulse Width Modulation (PWM) Circuit Repair.
- Audio Circuit Repair.
- Onboard CPU and GPU Replacement.
- Comprehensive Laptop Motherboard Repair.

CompTIA Network + : Kahkeshane Noor

- Gained knowledge of network fundamentals, including OSI model and TCP/IP protocols.
- Acquired hands-on experience in configuring routers, switches, and access points.
- Developed skills in network security principles and best practices.
- Mastered troubleshooting methodologies for efficient network issue resolution.

Certificates

- **Practical Statistics and Probability (Quera) — Perfect** [↗](#) — Comprehensive coverage of descriptive statistics, probability theory, distribution functions, hypothesis testing, and regression analysis.
- **Introductory Python Programming (Quera) — Perfect** [↗](#) — Fundamentals of Python programming including data types, control flow structures, functions, modules, file I/O, and use of standard libraries for data manipulation.

Language Proficiency

Farsi: Native

English: IELTS (to be taken)