

YASMIN VASHAGH

✉ Email

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🌐 Portfolio

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📺 YouTube

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📷 Instagram

Summary

Graduate of Farzanegan Amin 2 High School, part of Iran's National Organization for Development of Exceptional Talents, with strong academic performance in biology, laboratory science, English, and scientific writing. Published co-author with achievements in science education, violin, painting, and professional swimming. Interested in biology, biotechnology, biomedical research, and healthcare innovation.

Skills

Scientific: Basic biology and chemistry experiments, laboratory safety, scientific reporting, literature review

Technical: Microsoft Word, PowerPoint, Excel, educational content development, online presentation

Creative: Oil painting, violin performance, visual communication, educational script preparation

Professional: Time management, teamwork, responsibility, communication, structured writing

Languages: Persian (Native), English (IELTS Academic 6.5)

Education

High School Diploma — Farzanegan Amin 2 High School — Isfahan, Iran

Sep 2022 – Jun 2025

- Graduated from the Experimental Sciences program with a cumulative GPA of **18.33/20**.
- Studied at a selective school affiliated with Iran's National Organization for Development of Exceptional Talents.
- Earned outstanding grades in Biology I (**19.25**), Biology II (**19.25**), Biology III (**19.50**), Laboratory Science I (**19.50**), and Laboratory Science II (**20.00**).
- Achieved English grades of **20.00**, **20.00**, and **19.50**, and scientific writing grades of **19.75**, **20.00**, and **20.00**.

Publications

ConformalShift: Adaptive ECG Monitoring Security

2026

- Co-authored research on the security and robustness of adaptive ECG monitoring systems.
- Researched the biological and clinical background of ECG signals, heartbeat classes, and cardiac abnormalities.
- Reviewed biomedical literature and presented relevant findings to the first author as a research assistant.
- Assisted with biological interpretation, scientific terminology, and the biological context of the manuscript.
- Preprint: [ConformalShift: Targeted Event Reordering Against Adaptive ECG Monitoring](#).

CohortHijack: Single-Cell Annotation Robustness

2026

- Co-authored research investigating the robustness of AI-based single-cell annotation systems.
- Researched single-cell biology, immune-cell populations, cell types, and biological concepts related to cell annotation.
- Reviewed relevant biological literature and summarized and presented findings to the first author.
- Assisted with evaluating the biological plausibility of results, cell labels, and scientific terminology.
- Preprint: [CohortHijack: Robustness of Single Cell Annotation to Companion Cell Removal](#).

Brain Tumor Detection Using Deep Learning

2024

- Co-authored a study comparing self-attention-based ResNet and EfficientNet architectures for brain tumor detection.
- Contributed to literature review, scientific writing, result interpretation, and manuscript preparation.
- Published in the proceedings of the 9th International Congress on Electrical, Computer and Mechanical Engineering.
- Publication: [A Study on Self-Attention-Based ResNet and EfficientNet for Brain Tumor Detection](#).

Science Education

Biology and Science Educational Content Creator — YouTube

Nov 2025 – Present

- Creates structured educational videos explaining biology and related scientific topics to students.
- Prepares lesson scripts and presents scientific concepts through clear, accessible explanations.
- Publishes educational content through the [Yasmin Vashagh YouTube channel](#).

Creative Portfolio

Painting

Ongoing

- Paints original artwork, including oil paintings, and received second place in a student painting competition.
- Selected works: [Painting Portfolio](#).
- Additional artwork is available through [Instagram](#).

Violin Performance

Ongoing

- Performs violin and earned first place in a regional music competition.
- Selected performances: [Violin Performance Clips](#).
- Additional performances are available through [Instagram](#).

Honors, Awards, and Activities

- First Place, Regional Violin Competition 2022 – 2023
- Second Place, Oil Painting Competition 2023 – 2024
- Second Place, 100 m Butterfly Swimming, Ages 13–14 2018 – 2019
- Third Place, 100 m Freestyle Swimming, Ages 11–12 2017 – 2018
- Third Place, 4×50 m Freestyle Relay, Ages 11–12 2017 – 2018
- Third Place, Team Swimming Competition, Ages 11–12 2017 – 2018
- Certificate of participation in the Artificial Intelligence and Neuroscience Convergence Seminar. 2025
- Certificates of appreciation for helping organize a Humanities Workshop and the Gordafarid Literary Workshop. 2023