Sogand Salehi

Lausanne, Switzerland | +41 76 243 4035 | sogand.salehi@epfl.ch
linkedin.com/in/sogand-salehi | github.com/sogandstormesalehi

EDUCATION

École Polytechnique Fédérale de Lausanne (EPFL) — Lausanne, Switzerland
MSc Computer Science, Minor in Neuro-X, GPA 5.77/6 — Sep 2025 – Present

Sharif University of Technology — Tehran, Iran
BSc Computer Engineering, GPA 18.81/20 — Sep 2020 – Jan 2025

PUBLICATIONS

- **NEvo: Neural-Guided Video Synthesis for Probing Dynamic Visual Selectivity.**
  S. Salehi*, Y. Tang*, M. Zhou*, A. Zamir, L. Isik, M. Schrimpf. *NeurIPS*, 2026. *(Co-first author)* nevo-project.epfl.ch
- **ViPer: Visual Personalization of Generative Models via Individual Preference Learning.**
  S. Salehi, M. Shafiei, T. Yeo, R. Bachmann, A. Zamir. *ECCV*, 2024. *(First author)* viper.epfl.ch

RESEARCH & PROFESSIONAL EXPERIENCE

EPFL, Visual Intelligence & Learning Lab / NeuroAI Lab — Lausanne, Switzerland
Research Assistant, NEvo (advisors: A. Zamir, M. Schrimpf) — Sep 2025 – Present

- Developed a framework that combines brain-encoding models with evolutionary prompt search to generate videos maximizing predicted responses in target visual-cortex regions.
- Reproduced established selectivity patterns and identified motion and social-interaction preferences in the lateral visual pathway.
- Extending the method to real-time optimization of image, text, audio, and shader-based stimuli, guided by pupil size, heart rate, and neural recordings.

Vitruvian Shield SA — Remote (Freelance)
AI Engineer & Data Analyst — Jul 2024 – Apr 2025

- Developed and deployed deep-learning models for detecting health anomalies in smartwatch biosignals.
- Built the data pipeline from raw sensor preprocessing to heart-rate and blood-pressure estimation.

EPFL, Visual Intelligence & Learning Lab — Lausanne, Switzerland (Hybrid)
Research Intern, ViPer (advisor: A. Zamir) — Jul 2022 – Oct 2024

- Developed a method for personalizing image-generation models to individual users' visual preferences.
- Improved results through data-selection strategies and built the public demo.

TECHNICAL SKILLS

Programming	Python, C#, C++, R, JavaScript, GLSL
Languages	English (C2), Persian (Native), French (A2)

SCHOLARSHIPS & AWARDS

- Research Scholar, EPFL (2025, 2026)
- Aalto Excellence Scholarship — offered (2025)
- Summer@EPFL Research Internship (2022, 2023)
- Rank 12 in Konkour, Mathematics & Physics track — out of 150,000+ participants (2020)
- Rank 17 in Konkour, English as a Foreign Language track — out of 300,000+ participants (2020)

VOLUNTEER WORK

Vice President of Women in IC, EPFL — Sep 2025 – Present
Lead initiatives supporting women in CS; run technical workshops, networking events, and mentorship programs.

Algorithmic Creativity & Python Programming Tutor — Jun 2023 – Sep 2023
Designed problem-solving exercises and gave individualized guidance in algorithmic thinking.

League of Coders Tutor — Feb 2022 – Sep 2022
Mentored students in competitive-programming concepts through structured tutorials and practice sessions.