

Ehsan PAJOUHESHGAR

PERSONAL DATA

ADDRESS: EPFL IC IINFCOM IVRL BC 318 (Bâtiment BC)
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 PUBLICATIONS: [Google Scholar](#)
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EDUCATION

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| PRESENT | Ph.D in Computer Science Ecole Polytechnique Fédérale de Lausanne , Lausanne, Switzerland Image and Visual Representation Lab (IVRL) SUPERVISOR: Sabine Süsstrunk |
| SEPT. 2020 | GPA: 5.78/6 (via 36 credits) |
| JULY 2020 | B.Sc in Computer Engineering Sharif University of Technology , Tehran, Iran MAJOR: Computer Engineering MINOR: Pure Mathematics |
| SEPT. 2015 | GPA: 19.40/20 (via 166 credits) |

HONORS AND AWARDS

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| DEC. 2023 | Teaching Assistance Excellence Award From EPFL |
| AUG. 2022 | Best Paper Award from SIGGRAPH 2022 Conference |
| OCT. 2020 | Doctoral Fellowship for one year from EDIC EPFL |
| JULY 2020 | Ranked in top 5 in terms of GPA among 126 B.Sc. Computer Engineering students of the Computer Engineering Department , 2015 beginners. |
| SEPT. 2019 | Gold Medal in Iranian National Statistics Olympiad (Ranked 1st) |
| OCT. 2016 | 30th team among 2000+ teams in IEEEEXTREME Programming Competition |
| AUG. 2014 | Gold Medal in 27 th Iranian National Physics Olympiad |

LANGUAGES

PERSIAN AND TURKISH: Bilingual

ENGLISH: Fluent

PUBLICATIONS

- Authors:** Ehsan Pajouheshgar*, Yitao Xu, Sabine Süsstrunk
Title: [NoiseNCA: Noisy Seed Improves Spatio-Temporal Continuity of Neural Cellular Automata](#)
Conference: Artificial Life (ALife) 2024 - Oral
- Authors:** Yitao Xu, Ehsan Pajouheshgar, Sabine Süsstrunk
Title: [Emergent Dynamics in Neural Cellular Automata](#)
Conference: Artificial Life (ALife) 2024
- Authors:** Ehsan Pajouheshgar*, Yitao Xu*, Alexander Mordvintsev, Eyvind Niklasson, Tong Zhang, Sabine Süsstrunk
Title: [Mesh Neural Cellular Automata](#) (arXiv pre-print)
Journal: ACM Transactions on Graphics (TOG, SIGGRAPH) 2024
- Authors:** Ehsan Pajouheshgar*, Yitao Xu*, Tong Zhang, Sabine Süsstrunk
Title: [DyNCA: Real-time Dynamic Texture Synthesis Using Neural Cellular Automata](#)
Conference: Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2023
- Authors:** Yael Vinker, Ehsan Pajouheshgar, Jessica Y Bo, Roman Christian Bachmann, Amit Haim Bermano, Daniel Cohen-Or, Amir Zamir, Ariel Shamir
Title: [Clipasso: Semantically-aware object sketching](#)
Journal: ACM Transactions on Graphics (TOG, SIGGRAPH) 2022
- Authors:** Ehsan Pajouheshgar, Tong Zhang, Sabine Süsstrunk
Title: [Optimizing Latent Space Directions for GAN-Based Local Image Editing](#)
Conference: IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2022
- Authors:** A. Khodadadi, A. Hosseini, Ehsan Pajouheshgar, F. Mansouri, & Hamid R. Rabiee
Title: [ChOracle: A Unified Statistical Framework for Churn Prediction](#)
Journal: IEEE Transactions on Knowledge and Data Engineering (IEEE TKDE) 2020
- Authors:** Ehsan Pajouheshgar, Christoph H. Lampert
Title: [Back to square one: probabilistic trajectory forecasting without bells and whistles](#)
Conference: Workshop on Modeling and Decision-Making in the Spatiotemporal Domain, 32nd Conference on Neural Information Processing Systems, (NeurIPS) 2018

WORK EXPERIENCE

- JULY 2020 | **Data Scientist**, [Cafe Bazaar](#), Tehran, Iran.
 Cafe Bazaar is by far the most popular app store among Iranians.
 I was working in the Computer Vision team in [Balad](#) (A map and navigation service like google maps).
 My projects were focused on extracting information from our own
- MAY 2019 | KITTI-like Dataset, and extracting roads from satellite and aerial images.

TEACHING EXPERIENCES

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| SPRING 2024 2023 - 2022 | Teaching Assistant at EPFL , Lausanne, Switzerland Course: Computational Photography Prof. Sabine Süsstrunk Responsibility: Designing course projects and supervising students |
| FALL 2022 | Course: Linear Algebra Prof. Nicolas Boumal Responsibility: Holding exercise sessions |
| FALL 2021 | Course: Machine Learning Prof. Martin Jaggi Responsibility: Holding exercise sessions, designing the exam |
| SPRING 2019 | Teaching Assistant at Sharif University of Technology , Tehran, Iran Course: Deep Learning Prof. Soleymani Responsibility: Teaching TensorFlow, designing homeworks |
| SPRING 2019 | Course: Stochastic Processes Prof. M. H. Rohban Responsibility: Holding exercise classes and designing homeworks |
| FALL 2018 | Course: Machine Learning Prof. Soleymani Responsibility: Designing homeworks and exams |
| SPRING 2017 | Course: Advanced Programming in Java Prof. Mazloumi Responsibility: Designing course project |
| FALL 2016 | Course: Engineering Probability and Statistics Prof. A. Hosseini Responsibility: Holding exercise class and designing homeworks |
| DEC. 2016 | Teaching Physics , Farzanegan 1 High School and Allame Helli High School , Tehran, Iran |
| OCT. 2014 | Teaching Thermodynamic, Kinetic Theory, Electrodynamics and Experimental Physics to Olympiad students |