Parsa RAHIMI NOSHANAGH

Doctoral Student
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EDUCATION

- **EPFL** *2022-present*

  Doctoral Student EDEE Program, Advisors: Prof. Sebastien Marcel and Prof. Alexandre Alahi
    - Generative Prior as Augmentation, Synthetic Dataset Generation (For Training and Evaluation), Automatic Quantification of Generative Model Performance.

- **Sharif University of Technology** *2018-2021*

  Masters in Electrical Engineering, Advisor: Dr. Arash Amini
    - Computational Photography, Video Stabilization, Optical Flow, Robust Keypoint Detection / Matching.

EXPERIENCE

- **EPFL/ Idiap** *Sep 2022 - present*

  Research Assistant Switzerland
    - Controlled Image Synthesis: Training, Sampling and Conditioning of Diffusion Models (Latent and Pixel Space) / GANs (StyleGANs) / Flow Matching
    - Generative Prior: Domain Adaptor, Stylizer and Its Intersection with Neural Rendering and Spalts.

- **MCI** *2021-2022*

  Senior Research and Development Engineer Iran
    - Team Lead of 6 Engineers and Researchers: Management, Long/Short-term Execution and Planning
    - Building A Persian Multi-Modal Search Engine from the ground up based on CLIP, BERT, and Vector Databases

- **Realm Tech** *2017-2021*

  CEO/CTO Iran
    - Automatic Defect Detection In Manufacturing Lines: Anomaly Detection, Efficient Neural Networks
    - VR/AR Assisted Surgery: 3D Graphics, Smooth Video Overlay

SELECTED PUBLICATIONS

- **Synthetic to Authentic: Transferring Realism to 3D Face Renderings for Boosting Face Recognition**
  *Parsa Rahimi, Behroz Razeghi, Sébastien Marcel **ECCVw 2024 (Oral)**

- **Toward responsible face datasets: modeling the distribution of a disentangled latent space for sampling face images from demographic groups**
  *Parsa Rahimi, Christophe Ecabert, Sébastien Marcel **IJCB 2023 (Oral)**

- **Deep Variational Privacy Funnel: General Modeling with Applications in Face Recognition**
  Behroz Razeghi, *Parsa Rahimi, Sébastien Marcel **ICASSP 2024 (Oral)**

TECHNICAL SKILLS AND INTERESTS

Languages: Persian (Native), English (Fluent)
Developer Tools: VSCode, Git, CMake
Programming Languages: Python, C++/C, Go, Rust, CUDA
Frameworks: React, Google Workplace suite, Unreal Engine, Unity, ...
Cloud/Databases: Docker, Milvus, Vector Indices, Apptainer
Research Interests: Generative Models, Neural Rendering, Generative Prior, Controlled Synthesis, Fairness, Bias Mitigation
Hobbies: Playing my Guitar, Listening to Music, Competitive Programming, Swimming, Hiking