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🌐 Personal Homepage

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EDUCATION

- **ETH Zürich** 2019-2023
Msc in Electrical Engineering and Information Technology Zürich, Switzerland
 - Research Interest: Computer Vision, Image and Video Processing, Human-Computer Interaction
 - Courses: Machine Learning, Deep Learning, Probabilistic Artificial Intelligence, Virtual Reality, Big Data
- **Karlsruhe Institute of Technology** 2016-2019
Bsc in Electrical Engineering and Information Technology, GPA: 1.9/1.0, Top 10% Karlsruhe, Germany

EXPERIENCE

- **Disney Research Studio** 02/2023 - 08/2023
Master Thesis Supervised by Dr. Yang Zhang and Prof. Markus Gross Zürich, Switzerland
 - Paper submission to EuroGraphics 2024 and US Patent under review
 - Designed a deep network for Image & Video Restoration(Deinterlacing)
 - Incorporates a mechanism for the propagation of temporal information in both image and latent space,
 - Propose a Flow-guided Refinement Block (FRB): flow-guided deformable convolution alignment.
 - Leveraging bidirectional parallel propagation at multiple scale.
 - Our model is lightweight and capable of simultaneously outputting six deinterlaced video frames.
 - This makes it a promising candidate for real-time deinterlacing applications.
 - Training the model at two distinct parameter levels.(namely 0.5M and 9M).
 - Our extensive experimental results demonstrate that our proposed method achieve state-of-the-art performance on 4 various dataset. PSNR/SSIM improved by averagely 0.5DB/0.005.
- **ETH Zürich [\[Repository\]](#)** 10/2022 - 02/2023
Research Assistant in Landscape Architecture Group Zürich, Switzerland
 - Developed and created an AR application based on Unity, C#, and the Hololens 2
 - The application enabled users to interact with real-world architectural scenes in augmented reality
 - Accurately locates, displays, and records the spatial points needed by architects
- **Shanghai Automation Instrument Co., LTD.** 05/2018 - 08/2018
Product Intern Shanghai, China
 - Assembly of the electric actuator
 - Using actuator management software

PROJECTS

- **Disney Research Studio [\[Report\]](#)** 06/2022 - 10/2022
Semester Project Supervised by Dr. Yang Zhang and Prof. Markus Gross Zürich, Switzerland
 - Investigated a novel method to generate realistic noisy images
 - Combined physics-based statistical methods with GAN-based training Network
 - Designed and trained a Network (PyTorch framework, SIDD dataset) to generate synthetic noisy images
 - The synthetic noisy images could be used for further denoising tasks
 - Solved the challenging issue of collecting paired real noise-free and noisy image data

TECHNICAL SKILLS

Languages: English (fluent), German (fluent), Chinese (native)

Technical: Python (PyTorch), C#/C++, Matlab, Unity, Linux, Git, LaTeX