ARYAN GARG

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https://aryan-garg.github.io

RESEARCH INTEREST

Generative Modeling, Computer Vision, Imaging

EDUCATION

University of Wisconsin-Madison *Aug 2024 - Present*
PhD Computer Science. Advisor: Prof. Mohit Gupta

Indian Institute of Technology, Mandi *Aug 2019 - June 2023*
Bachelor's of Technology in Computer Science and Engineering

PUBLICATIONS

1. *CVPR 2026.* Generative Quanta Image Reconstruction.
Aryan Garg, Sizhuo Ma, Mohit Gupta.

2. *ToG 2025/SIGGRAPH 2026.* Radiance Fields from Photons.
Sacha Jungerman, **Aryan Garg**, Mohit Gupta.

3. *WACV-W 2025.* IP-FaceDiff: Identity-Preserving Facial Video Editing with Diffusion.
Tharun Anand, **Aryan Garg**, Kaushik Mitra.

4. *BMVC 2024.* HDRSplat: Gaussian Splatting for High Dynamic Range 3D Scene Reconstruction from Raw Images.
Shreyas Singh*, **Aryan Garg***, Kaushik Mitra.

5. *ICCP 2024.* dpMV: Stereo Knowledge Distillation to dual pixels for Light Field Reconstruction.
Aryan Garg, Raghav Mallampali, Akshat Joshi, Shrisudhan Govindarajan, Kaushik Mitra.

6. *[Oral] ICLR-TP 2024.* GPECNet: Towards a Generalizable Pedestrian Trajectory Prediction System.
Aryan Garg, Renu Rameshan.

7. *[Oral] ICLR-TP 2024.* Parameter & Data-Efficient Spectral StyleDCGAN.
Aryan Garg.

8. *Semaine numériQC, 2023.* - Best Presentation Award. Re-envisioning Sky Models.
Ian J. Maquignaz, Lucas Valença, **Aryan Garg**, Yannick Hold-Geoffroy, Julien Philip, JF Lalonde. Award Link

9. *Symposium IA Montréal, 2022.* DeepSky.
Ian J. Maquignaz, **Aryan Garg**, Yannick Hold Geoffroy, Julien Philip, Jean Francois Lalonde. Poster Link

PREPRINTS / UNDER SUBMISSION

1. Controllable GUI Exploration.
Aryan Garg*, Yue Jiang*, Antti Oulasvirta. arXiv link

RESEARCH EXPERIENCE & ACHIEVEMENTS

Qualcomm Innovation Fellowship Finalist, 2025
Advisors: Prof. Mohit Gupta & Professor Aswin Sankaranarayanan

Aalto Science Institute - Research Intern May '24 - Aug '24
Advisors: Professor Antti Oulasvirta & Dr. Yue Jiang

Bosch AI Fellow - RBCDSAI + CILAB, IIT Madras Jun '23 - Apr '24
Advisor: Professor Kaushik Mitra

· Won a 3000 USD grant from the Indian Space & Research Organization (**ISRO**).

· 3 Publications (ICCP '24, BMVC '24 and WACV '25)

MITACS Research Intern - LVSN, Université Laval + Adobe, Canada   Jun '22 - Apr '23
Advisors: Professor Jean-Francois Lalonde & Dr. Yannick Hold-Geoffroy (Adobe)

· In collaboration with Adobe: Controlling and synthesizing photo-realistic skies. 2 Publications & 1 Poster.

Research Assistant - IIT Mandi   Feb' 21 - Jun' 22
Advisor: Professor Renu Rameshan

· State-of-the-art FDE on Pedestrian Trajectory Prediction Task resulted in **ICLR Oral 2024** paper.

ACADEMIC EXPERIENCE

Teaching Assistantships

· CS639.1 - Data Management for Data Science (Prof. Meenakshi Syamkumar) - Fall '24 UW-Madison
· National (NPTEL) Course - EE5719 Deep Learning for Imaging (Prof. Kaushik Mitra) - Fall '23 IIT Madras
· CS208 - Mathematical Foundations of Computer Science (Prof. Samar Agnihotri) - Fall '21 IIT Mandi
· EE522 - Matrix Theory for Engineers (Prof. Renu Rameshan) - Fall '21 IIT Mandi

Reviewer Services

· CVPR (2026), ICLR (24, 25, 26), CVPR-W: AI4CC (24), ICVGIP (23)

INDUSTRIAL EXPERIENCE

Ciena - India   Jun 14, 2021 - Aug 31, 2021
Software Developer Engineer Intern - Manager: Mr. Rajesh Bang

· Proposed & implemented a concurrent algorithm to connect DUTs reducing existing up times by **32%**.
· Created a DevOps (Jenkins) pipeline for network devices' development & testing.