ARYAN GARG

in github ✉ ☎

https://aryan-garg.github.io

EDUCATION

University of Wisconsin-Madison *Aug 2024 - Present*
Masters + PhD Computer Science. Advisor: Prof. Mohit Gupta GPA 4.0

Indian Institute of Technology, Mandi *Aug 2019 - June 2023*
Bachelor's of Technology in Computer Science and Engineering CGPA: 8.39/10

PUBLICATIONS

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

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

3. **ICCP 2024.** *dpMV: Stereo Knowledge Distillation to dual pixels for Light Field Reconstruction.* **Aryan Garg**, Renu Rameshan. ‖ arXiv

4. **[Oral] ICLR 2024.** *GPECNet: Towards a Generalizable Pedestrian Trajectory Prediction System.* **Aryan Garg**, Renu Rameshan. ‖ OpenReview

5. **[Oral] ICLR 2024.** *Parameter & Data-Efficient Spectral StyleDCGAN.* **Aryan Garg.** ‖ OpenReview

6. **Semaine numériQC, 2023.** - **Won 3rd Best Presentation** *Re-envisioning Sky Models.* Ian J. Maquignaz, Lucas Valença, **Aryan Garg**, Yannick Hold-Geoffroy, Julien Philip, JF Lalonde. ‖ Award: Post ‖ Paper-link

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

PREPRINTS / UNDER SUBMISSION

1. *Quanta Image Reconstruction using Generative Priors.* **Aryan Garg**, Sizhuo Ma, Mohit Gupta.

2. **ToG 2026 (Accepted with minor revisions)** *Radiance Fields from Photons.* Sacha Jungerman, **Aryan Garg**, Mohit Gupta. ‖ arXiv

3. **CHI 2026** *Controllable GUI Exploration.* **Aryan Garg***, Yue Jiang*, Antti Oulasvirta. ‖ arXiv

ACADEMIC 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 SERVICES

Reviewer Services

· (ICLR) International Conference on Learning Representations, 2025
· (ICVGIP) 14th Indian Conference on Computer Vision, Graphics and Image Processing, 2023
· (ICLR TP) International Conference on Learning Representations Tiny Papers, 2024
· (CVPR-W) Computer Vision and Pattern Recognition - Workshop: AI for Content Creation, AI4CC 2024

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

INDUSTRIAL EXPERIENCE

CTO at Mennr - Exited Jul, 2023 - Jan, 2024
Co-Founder and CTO

· Developing agentic AI at Mennr to transform the American education system.

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.

PROJECTS

DINO-DETR for Pedestrian Detection on IIT Delhi Campus Pedestrian Detection Dataset
Dataset courtesy: Professor Chetan Arora and Dr. Ramya Hebbalaguppe

· Code ‖ Dataset hosted on Kaggle

Fast Facial Expression Recognition on Imbalanced Low Resolution Scraped Gray Faces
Dataset courtesy: Dr. Moi Hoon Yap, Manchester Metropolitan University

· Code

POSITIONS OF RESPONSIBILITY

1. Guidance & Counselling Service (GCS) Mentor, IIT Mandi: Mentored 9 juniors

2. National Service Scheme - Volunteer for social welfare in the pristine Himalayan province of Himachal Pradesh