

ARYAN GARG



<https://aryan-garg.github.io>

EDUCATION

University of Wisconsin-Madison

Masters + PhD Computer Science. Advisor: Prof. Mohit Gupta

Aug 2024 - Present

GPA 4.0

Indian Institute of Technology, Mandi

Bachelor's of Technology in Computer Science and Engineering

Aug 2019 - June 2023

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. **ToG 2025** *Radiance Fields from Photons*. Sacha Jungerman, **Aryan Garg**, Mohit Gupta. || arXiv
2. *Controllable GUI Exploration*. **Aryan Garg***, Yue Jiang*, Antti Oulasvirta. || arXiv

ACADEMIC EXPERIENCE

Aalto Science Institute - Research Intern

Advisors: Professor Antti Oulasvirta & Yue Jiang

May '24 - Aug '24

Bosch AI Fellow - RBCDSAI + CILAB, IIT Madras

Advisor: Professor Kaushik Mitra

Jun '23 - Apr '24

- 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

Advisors: Professor Jean-Francois Lalonde & Dr. Yannick Hold-Geoffroy (Adobe)

Jun '22 - Apr '23

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

- 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 unlearnable autonomous AI agents at Mennr to transform the educational sphere.

Ciena - India

Jun 14, 2021 - Aug 31, 2021

Software Developer Engineer Intern - Manager: Mr. Rajesh Bang

- Created a Django-React-REST+Redux Web-App for Auditing Layer 2 and 3 Network Devices.
- 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

Replicating 9 Seminal GANs from scratch

- Code || Technical-report || Presentation

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