

ARYAN GARG



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

EDUCATION

University of Wisconsin-Madison Masters + PhD Computer Science. Advisor: Prof. Mohit Gupta	<i>Aug 2024 - Present</i> GPA 4.0
Indian Institute of Technology, Mandi Bachelor's of Technology in Computer Science and Engineering	<i>Aug 2019 - June 2023</i> CGPA: 8.39/10

PUBLICATIONS

1. **ToG/SIGGRAPH 2025.** *Radiance Fields from Photons.* Sacha Jungerman, **Aryan Garg**, Mohit Gupta.
2. **WACV-W 2025.** *IP-FaceDiff: Identity-Preserving Facial Video Editing with Diffusion.* Tharun Anand, **Aryan Garg**, Kaushik Mitra.
3. **BMVC 2024.** *HDRSplat: Gaussian Splatting for High Dynamic Range 3D Scene Reconstruction from Raw Images.* Shreyas Singh*, **Aryan Garg***, Kaushik Mitra.
4. **ICCP 2024.** *dpMV: Stereo Knowledge Distillation to dual pixels for Light Field Reconstruction.* **Aryan Garg**, Raghav Mallampali, Akshat Joshi, Shrisudhan Govindarajan, Kaushik Mitra.
5. [Oral] **ICLR 2024.** *GPECNet: Towards a Generalizable Pedestrian Trajectory Prediction System.* **Aryan Garg**, Renu Rameshan.
6. [Oral] **ICLR 2024.** *Parameter & Data-Efficient Spectral StyleDCGAN.* **Aryan Garg**.
7. **Semaine numériQC, 2023.** - Best Presentation Award *Re-envisioning Sky Models.* Ian J. Maquignaz, Lucas Valen  a, **Aryan Garg**, Yannick Hold-Geoffroy, Julien Philip, JF Lalonde. Award Post
8. **Symposium IA Montr  al, 2022.** *DeepSky.* Ian J. Maquignaz, **Aryan Garg**, Yannick Hold Geoffroy, Julien Philip, Jean Francois Lalonde. || Abstract || Poster

PREPRINTS / UNDER SUBMISSION

1. **CVPR 2026.** *Generative Quanta Image Reconstruction.* **Aryan Garg**, Sizhuo Ma, Mohit Gupta.
2. **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 - 2024, 2025, 2026) International Conference on Learning Representations
- (CVPR-W 2024) Computer Vision and Pattern Recognition - Workshop AI4CC: AI for Content Creation
- (ICLR TP - 2024) International Conference on Learning Representations Tiny Papers
- (ICVGIP - 2023) Indian Conference on Computer Vision, Graphics and Image Processing

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 Scrapped 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