

Garima Garima

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EDUCATION

- **PhD: Department of Electrical Engineering, Linköping University** Sweden
A joint approach for Point Cloud Transmission & Point Cloud Registration October 2025 - ongoing
Supervisors: Per-Erik Forssén, Khac-Hoang Ngo
Funded by Wallenberg AI, Autonomous Systems and Software Program (WASP)
- **EMJMD PSRS- Intelligent Vision & Biometrics**
Erasmus Mundus Joint Master Degree: Photonics for Security Reliability and Safety (PSRS)
Grade: A
Institut des systemes intelligents et de robotique (ISIR), Sorbonne University France
Semester 4: Master Thesis March 2025 - September 2025
Diffusion inspired Point Cloud Registration
- **Université Paris-Est Créteil** France
Semester 3: Master of Science diploma in Biometrics and Intelligent Vision September 2024 - February 2025
Relevant Courses: Computer Vision, Biometrics, Deep Learning, Artificial Intelligence and Innovation, Emerging Technology (AR and VR), Semester Project: Automating cell tracking in biomedical videos
- **University of Eastern Finland** Finland
Semester 2: Master of Science in Photonics January 2024 - May 2024
Relevant Courses: Machine Vision, Basics of Signal and Image Processing, Numerical methods with Python, Color Science
- **University Jean Monnet** France
Semester 1: Master of Science diploma in Optics, Image, Vision, Multimedia September 2023 - January 2024
Relevant Courses: Digital Image Processing and Analysis, Algorithms & Programming, Physical optics - Digital processing
- **St. Stephen's College, University of Delhi** India
BSc - Physical Sciences November 2020 - July 2023
CGPA: 9.379 / 10.00
Subjects: Computer Science, Mathematics, Physics, Chemistry

RESEARCH EXPERIENCE

- **Institut des systemes intelligents et de robotique (ISIR), Sorbonne University** France
Master Thesis: Diffusion inspired Point Cloud Registration March 2025 - September 2025
Supervisors: Catherine Achard, Brahim Tamadazte and Karim Slimani
- Investigated and validated the efficacy of diffusion models for Point Cloud Registration (PCR)
- Developed and proposed two new diffusion inspired PCR methods
- **Swiss Plasma Center (SPC), École Polytechnique Fédérale de Lausanne (EPFL)** Switzerland
Internship: Pre-processing of plasma videos for detection & tracking of REs June 2024 - August 2024
Supervisors: Alessandro Pau and Cristian Sommariva
- Implemented and compared various image enhancement methods like denoising, super resolution, for experimental plasma videos from JET tokamak.
- Generated additional data for training YOLO & performed code review for the overall pipeline of detection and tracking of runaway electrons (REs).

RESEARCH INTERESTS

3D Computer Vision, Point Cloud Registration, Autonomous Systems, Point Cloud Transmission

COURSES AND CERTIFICATIONS

- Attended the EPFL Lauz-Hack Deep Learning BootCamp (2024)
- Certified with Credly badge for finishing **Applied Data Science Lab** from WorldQuant University. Finished 8 end-to-end applied Data Science Projects. (2023)
- Completed **CS50x: Introduction to Computer Science by Harvard University**. Finished 9 labs and problem sets along with a Final Project (2022)
- Completed **Introduction to Web Development** with Code First Girls (UK) (2022)

- Shortlisted for Winter school for young women in Mathematics organised by **IWM-IIT Kanpur** (Indian Women and Mathematics - Indian Institute of Technology Kanpur) (2021)
- Attained a **course on Web-GIS** offered by **ISRO-IIRS** (Indian Institute of Remote Sensing - Indian Space Research Organisation) (2021)

VOLUNTEER WORK

- Served as a volunteer with the Pramanit Foundation, India from 2019 to 2023
- **Event Organisation and Management** - Organised Republic Day Celebration, Independence Day Celebrations, Yoga Day, Polio Drive, Tree Plantation Drive, Cleanliness Drive and several other events ever since joining National Cadet Corps from 2020 to 2023

HONOURS AND AWARDS

- Selected for **Erasmus Mundus scholarship** for PSRS (2023-2025)
- Felicitated with **Asha Chatterjee Prize** for academic work, strength of character and leadership qualities at St. Stephen's College (2023)
- Felicitated with **Delhi Science Teacher's Association Scholarship** for securing 2nd rank in Science Open Test (2018-2019)

EXTRA CURRICULAR ACTIVITIES

- Editor of the EMJMD PSRS newsletter for its 1st and 2nd edition (2024- 2025)
- Sergeant at National Cadet Corps (NCC), St. Stephen's College (2020-2023)
- Certified by **University of Cambridge, Massachusetts** for CS50x Puzzle Day (2022)
- Represented India during Youth Exchange Program at Independence Day Camp (2022)