

Paritosh Sharma

Cannes, France

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Professional Experience

Inria, Valbonne, France

Jan 2025 – Present

Postdoctoral Researcher

- Score distillation-based generative models for urban scenarios.
- Built GLSL shaders for accessibility and low-vision simulation.

CNRS, Orsay, France

Oct 2021 – Dec 2024

Doctoral Researcher

- Built sign language synthesis systems using procedural animation and language modeling.
- Published in SIGGRAPH SCA '23 and IEEE ICASSPW '23.

Gesture Research, Gurgaon, India

Nov 2018 – Apr 2019

XR Developer Intern

- Unity XR development for Microsoft HoloLens, Gear VR, and Windows MxR.
- Researched real-time finger tracking techniques for immersive applications.

Godot Engine – Google Summer of Code, Remote

May – Aug 2018

Student Developer

- Integrated Google Daydream and Gear VR support into the Godot Engine.

Education

Université Paris-Saclay, France

PhD Informatics, 2021–2024

Université Grenoble Alpes – ENSIMAG, France

MS Informatics (Graphics, Vision, Robotics), 2019–2021

SRM University, India

B.Tech. Computer Science and Engg., 2015–2019

Skills

Programming: C++, Python, GLSL, Java, JavaScript (Three.js), Qt

Frameworks: PyTorch, Unity3D, Godot, Blender, Docker, Distributed APIs (OpenMP, MPI, etc.)

Expertise: Computer Graphics, XR, Physics-based Animation, Diffusion Models, Procedural Generation

Languages: English (Pro), Hindi (Native), French (Pro)

Other Projects

- **Stable Diffusion from Scratch** – Implemented a full diffusion model training pipeline.
- **Galactic Cricket** – VR cricket game for Meta headsets.
- **Oh Camel!** – MinCaml compiler project.
- Game Jam projects based on Unity, Godot and PyOpenGL

Selected Publications

- Sharma, P. & Filhol, M. *Intermediate Block Generation for Multi-Track Sign Language Synthesis*. SIGGRAPH/Eurographics SCA '23.
- Sharma, P. & Filhol, M. *Extending Morphs in AZee Using Pose Space Deformations*. IEEE ICASSPW '23.

Honors

Best PhD Project, VISIGRAPP Doctoral Consortium 2023 — Bronze Medal, EIT Health Grenoble i-Days 2020 — Charpak BCS Scholarship