

NICOLÁS VIOLANTE GREZZI

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EDUCATION

Inria, Université Côte d'Azur <i>PhD in Computer Science at GraphDeco group – Supervised by George Drettakis</i>	Sophia Antipolis, France Oct. 2022 – present
École Normale Supérieure Paris-Saclay <i>MSc in Mathematics, Vision, and Learning (mention très bien)</i>	Paris, France Oct. 2021 – Oct. 2022
Universidad de la República <i>Electrical Engineering – Supervised by Alberto Bartesaghi and Federico Lecumberry</i>	Montevideo, Uruguay Mar. 2015 – Oct. 2020

EXPERIENCE

Adobe <i>Research Intern</i> <ul style="list-style-type: none">Worked on Gaussian Splatting for 3D reconstruction. Supervised by Thibault Groueix	San Francisco, USA Sept. 2023 – Nov. 2023
Inria <i>Research Intern</i> <ul style="list-style-type: none">Developed and trained generative adversarial networks (GAN) to synthesize photorealistic 3D models from images, leveraging neural rendering techniques (NeRF).	Sophia Antipolis, France May 2022 – Sept. 2022
Digital Sense <i>R&D Engineer</i> <ul style="list-style-type: none">Improved image enhancement pipelines for large-scale HDR satellite imagery	Montevideo, Uruguay Nov. 2020 – Aug. 2021
<i>R&D Assistant</i> <ul style="list-style-type: none">Deployed a workstation for semi-automatic industrial anomaly detection using deep learning	Oct. 2019 – Oct 2020
Universidad de la República <i>Teaching Assistant</i> <ul style="list-style-type: none">Workshop on Audio Processing, guiding students to implement digital guitar effects (delay, wah-wah, flanger, etc) using PureData and a Raspberry	Montevideo, Uruguay Mar. 2018 – June 2018

PUBLICATIONS

Splat and Replace: 3D Reconstruction with Repetitive Elements <i>N. Violante, A. Meuleman, A. Gauthier, F. Durand, T. Groueix, G. Drettakis</i>	2025 SIGGRAPH
Physically-based Lighting of 3D Generative Models of Cars <i>N. Violante, A. Gauthier, S. Diolatzis, T. Leimkühler, G. Drettakis</i>	2024 Computer Graphics Forum (Eurographics)

PROJECTS

Generative AI <i>Python, Pytorch</i> <ul style="list-style-type: none">Implemented several classic generative AI models: VAEs, VQ-VAEs, GANs, Diffusion Models, Flow Matching. Also controlling mechanisms such as LoRA and IP-Adapter for Stable Diffusion. Code: github.com/nviolante25/generative

SERVICE

Reviewer <ul style="list-style-type: none">Eurographics 2024SIGGRAPH Asia 2024
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SKILLS

Programming: Python (Pytorch, Tensorflow, OpenCV) C/C++, CUDA, Git, Slurm
3D Modeling: Blender
Languages: Spanish (native speaker), English (C1), French (B2)