

# NICOLÁS VIOLANTE GREZZI

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## EDUCATION

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

## EXPERIENCE

<b>Adobe</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>Worked on Gaussian Splatting for 3D reconstruction. Supervised by Thibault Groueix</li></ul>	San Francisco, USA Sept. 2024 – Nov. 2024
<b>Inria</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>Developed and trained generative adversarial networks (GAN) to synthesize photorealistic 3D models from images, leveraging neural rendering techniques (NeRF).</li></ul>	Sophia Antipolis, France May 2022 – Sept. 2022
<b>Digital Sense</b> <i>R&amp;D Engineer</i> <ul style="list-style-type: none"><li>Improved image enhancement pipelines for large-scale HDR satellite imagery</li></ul>	Montevideo, Uruguay Nov. 2020 – Aug. 2021
<i>R&amp;D Assistant</i> <ul style="list-style-type: none"><li>Deployed a workstation for semi-automatic industrial anomaly detection using deep learning</li></ul>	Oct. 2019 – Oct 2020
<b>Universidad de la República</b> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>Workshop on Audio Processing, guiding students to implement digital guitar effects (delay, wah-wah, flanger, etc) using PureData and a Raspberry</li></ul>	Montevideo, Uruguay Mar. 2018 – June 2018

## PUBLICATIONS

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

## PROJECTS

<b>Generative AI</b>   <i>Python, Pytorch</i> <ul style="list-style-type: none"><li>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: <a href="https://github.com/nviolante25/generative">github.com/nviolante25/generative</a></li></ul>
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## SERVICE

<b>Reviewer</b> <ul style="list-style-type: none"><li>Eurographics 2024</li><li>SIGGRAPH Asia 2024</li></ul>
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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)