

# Diego Gomez

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## RESEARCH INTEREST

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My research interest lie in the intersection of Computer Vision and Computer Graphics. In the past I have worked with neural radiance fields, gaussian splatting, physically based rendering. I am currently learning about diffusion models and 2D and 3D foundation models. What ultimately motivates me is the creation of beautiful visuals!

## EXPERIENCE

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- **Adobe Research**  April 2023 - September 2023  
Paris, France  
*Research Scientist Intern*
  - **Conducted** a project tackling the NeRF relighting problem.
  - **Developed** a solution achieving **state of the art** reconstruction on desired metrics, e.g. normals.
  - **Published** and **Presented** paper at **CGI 2024**.
  - **Collaborated** with Élie Michel, Julien Philip, and Adrien Kaiser.
- **LIX - GeomeriX team**  May 2022 - July 2022  
Paris, France  
*Research Intern*
  - Supervised by Prof. **Maks Ovsjanikov**.
  - **Implemented** a Point Cloud Denoiser based on the U-Net architecture, thus improving upon previous methods by treating multiple data points simultaneously. (**Pytorch, Docker**)
  - **Addition** of a discriminator component to fine-tune results.
  - **Achieved** better quantitative results than well established methods, e.g. PointCleanNet.

## EDUCATION

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- **École Polytechnique** 2024 - 2026  
Paris, France  
*PhD in Computer Vision and Computer Graphics*
  - Under the supervision of Prof. Maks Ovsjanikov
  - Part of the Geomerix team of the LIX lab.
- **ENS Paris-Saclay** 2021 - 2023  
Paris, France  
*Master of Science - Mathématiques Vision Apprentissage (MVA)*
  - Graduated **Summa Cum Laude**, CGPA 4.0
  - First year of masters done at **Télécom Paris**.
  - PhD track **Excellence Scholarship** granted by Institut Polytechnique de Paris.
- **École Polytechnique** 2018 - 2021  
Paris, France  
*Bachelor of Science - Mathematics and Computer Science Double Major*
  - Graduated **Summa Cum Laude**, CGPA 4.0

## PATENTS AND PUBLICATIONS

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- [2024] **RRM: Relightable assets using Radiance guided Material extraction**  
*Diego Gomez, Julien Philip, Adrien Kaiser and Elie Michel*  
**CGI 2024**  
Enabled material extraction of shiny objects while also improving reconstruction quality on all kinds of scenes.