

Education

- Sept. 2024 - **MIT, Cambridge, USA, PhD program.**
present Advised by Mina Konaković Luković in the [Algorithmic Design Group](#).
- 2022 - 2024 **ETH, Zürich, Switzerland, Master of Science in Computer Science.** Grade: 5.71/6.0.
Major in *Visual and Interactive Computing* and Minor in *Machine Learning*. "Honorable Mention" at the rendering competition of the [Computer Graphics 2022](#) course.
- 2019 - 2023 **École Polytechnique, Paris, France, Postgraduate engineering degree.** GPA: 3.9/4.0.
One of France's leading schools of science and engineering. Military training.
- 2017 - 2019 **Lycée Faidherbe, Lille, France, Undergraduate studies**
Two-year intensive university-level (undergraduate) preparation in mathematics and physics to prepare for highly competitive nationwide exams (*Classes Préparatoires*).

Work Experience

- March 2024 - **Visiting Student, Seoul National University, Seoul, South Korea**
Aug. 2024 Visited the [3D Vision Lab](#) for my Master's Thesis. Supervised by Prof. [Young Min Kim](#) (SNU) and Prof. [Olga Sorkine-Hornung](#) (ETH Zürich).
- Oct. 2023 - **Research Intern (Internship), NVIDIA, Zürich, Switzerland**
Feb. 2024 Worked on a confidential high-performance graphics research project. Supervised by [Thomas Müller](#), [Merlin Nimier-David](#) and [Alex Keller](#).
- Jan. 2023 - **Semester project, CVG lab, ETH, Zürich, Switzerland**
June 2023 Research project supervised by PhD student [Silvan Weder](#) and Prof. [Marc Pollefeys](#)
- March 2022 - **Research Intern (Internship), Inria, GraphDeco Team, Sophia-Antipolis, France**
Aug. 2022 Research project supervised by George Drettakis. Resulted in *NeRFshop* (I3D 2023). Collaborated on *Neural Point Catacaustics* (SIGGRAPH Asia 2023).
- June 2021 - **Computer Vision Engineer (Internship), Wemap, Montpellier, France**
Aug. 2021 Devised a state-of-the-art visual positioning system from scratch. See [demo](#).
- Oct. 2019 - **Teacher and Research Assistant (Internship), Institute of Technology of Cambodia, Phnom-Penh, Cambodia**
March 2020 Provided 40 Cambodian students with a preparation for l'École Polytechnique's entrance exam. Led a five-month research project on Reinforcement Learning in the robotics laboratory.
- Oct. 2015 - **Software Developer, Artenpik, Lille, France**
Sept. 2017 Created of an augmented-reality platform for street-artists. Won two hackathon prizes including First Place at the "*Happy Hacking Days*" in 2015.

Publications

- Under review *Interactive Scene Authoring with Specialized Generative Primitives*, **Clément Jambon**, Changwoon Choi, Dongsu Zhang, Olga Sorkine-Hornung, Young Min Kim.
- I3D 2023 *NeRFshop: Interactive Editing of Neural Radiance Fields*, **Clément Jambon**, Bernhard Kerbl, Georgios Kopanas, Stavros Diolatzis, Thomas Leimkühler, George Drettakis.
- Siggraph Asia 2022 *Neural Point Catacaustics for Novel-View Synthesis of Reflections*, Georgios Kopanas, Thomas Leimkühler, Gilles Reiner, **Clément Jambon**, George Drettakis.

Languages

French: native. **English:** proficient. **German:** professional (beginner).

Skills

Software development: C, C++, CUDA, Python, Java, C#, OpenGL API, GLSL, Vulkan API (beginner, mostly compute pipeline). **Computer Graphics:** neural and inverse rendering (e.g. *NeRF*, *Mitsuba3+drjit*, *nerfstudio*, *Instant-NGP*, *3DGS*), Monte Carlo rendering, physically-based simulation, geometry processing, game development with Unity. **Computer Vision:** image processing, multiple view geometry, SLAM and SfM pipelines. **Machine Learning:** PyTorch, JAX, Scikit-Learn, Topological Data Analysis, NLP, Reinforcement Learning, NeRF, Diffusion Models, Statistical learning theory, advanced formal languages. **Web development:** JavaScript, Typescript, React, Node.js, Express.js, Django, SQL, Hugo. **Driving licence.**