CLÉMENT JAMBON

clement.jambon@polytechnique.edu, Webpage, Github, LinkedIn

Education

2022 - present

ETH, Zürich, Switzerland

- Pursuing a Master of Science, graduating in Summer 2024
- Majoring in computer science and specializing in Visual and Interactive Computing

2019 - present

École Polytechnique, Paris, France

- Pursuing a postgraduate engineering degree in one of France's leading schools of science and engineering, to be conferred in 2023
- Majoring in computer science and taking part in the advanced program *Image*, *Vision and Machine Learning*
- Leading a six-month research project on optimized signed distance fields GPU rendering

2017 - 2019

Lycée Faidherbe, Lille, France

- Took a two-year intensive university-level preparation in mathematics and physics to prepare for highly competitive nationwide exams
- Was admitted to most of France's top-ranking schools including Mines ParisTech, École Centrale Paris, École Normale Supérieure and l'École Polytechnique

Work Experience

March 2022 -Aug. 2022

Research intern (Internship), Inria, GraphDeco Team, Sophia-Antipolis, France

- Took part into a full-time research project supervised by George Drettakis investigating Neural Radiance Fields (NeRF) and ways of editing them. This project was made possible thanks to rich and extensive discussions with multiple academic collaborators both within and outside the lab
- Contributed to another PhD's work resulting in a publication that will soon be released at SIGGRAPH Asia 2022
- Presented several state-of-the-art advances to the team during reading and group meetings

June 2021 Aug. 2021

- Computer Vision Engineer (Internship), Wemap, Montpellier, France

- ullet Developed a robust monocular SLAM pipeline supporting 360-degree cameras based on indirect methods
- Devised a state-of-the-art prototype of visual positioning system for large datasets of indoor locations

Oct. 2019 March 2020

Teacher and Research Assistant (Internship), Institute of Technology of Cambodia, Phnom-Penh, Cambodia

- Provided 40 second-year Cambodian students with a preparation in mathematics and physics for l'École Polytechnique's entrance exam
- Wrote a 280-page original textbook for the corresponding programme
- Organized presentations and workshops on computer science in the robotics laboratory
- Led a five-month research project on Reinforcement Learning in the robotics laboratory

Oct. 2015 - Sept.

Software Developer, Artenpik, Lille, France

2017

- Contributed to the creation of an augmented-reality platform for street-artists
- Developed an image-recognition solution for large datasets of artworks
- Won two hackathon prizes including First Place at "Happy Hacking Days" in 2015

Languages

- French, native
- English, proficient: TOEFL iBT® Test 111/120 (reading: 28, listening: 27, speaking: 28, writing: 28)
- German, professional

Skills

- Software development: C, C++, Python, Java, C#, Rust (beginner)
- Web development: JavaScript, Typescript, React, Node.js, Express.js, Django, SQL, Hugo
- Computer Graphics: OpenGL API, Vulkan API (beginner), GLSL, CUDA, GPU architecture, rendering pipelines, ray tracing, game development with Unity
- Computer Vision: image processing, multiple view geometry, SLAM and SfM pipelines
- Machine Learning: PyTorch, Scikit-Learn, Topological Data Analysis, Graph Representation Learning, NLP, Reinforcement Learning

- Network Engineering and computer architecture: Internet and IoT protocols, CPU architecture, memory hierarchy, cybersecurity, compilation
- Tools: Unix/Linux, LaTeX, CMake, Git, Continuous Integration (CI), Inkscape
- Driving licence

Interests & Activities

- Have played the guitar for 9 years: lead guitarist in a rock band
- Practicing mountain running, trail running, road cycling and orienteering; taking part in nationwide competitions
- Proudly involved in the Cooking Society (*Ratatouille*), Arts Society (*Bureau Des Arts*), Mathematical Society and Computer Society (*Binet Réseau*) of l'École Polytechnique
- Organised a one-week trip in Italy for 64 schoolmates
- Supervised the activities and routes of a two-day adventure race with 200 participants