Pierre Hubert-Brierre

Computer Graphics PhD Student

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2025 Accelerating Signed Distance Functions, Pacific Graphics P. Hubert-Brierre, E. Guérin, A. Peytavie, E. Galin

Certificates

- 2024 ENS Certificate, Computer Science, ENS (Lyon), Certificate of fundamental research
- 2023 Master of Science ID3D, Computer Graphics, Claude Bernard University (Lyon)
- 2022 Cambridge Advanced, English Level C1
- 2021 Honour Degree, Mathematics, Claude Bernard University (Lyon)
- 2021 Honour Degree, Computer Science, Claude Bernard University (Lyon)
- 2018 Baccalaureate, S (SI) European with highest honour, Jules Ferry High School (Cannes)

Teachings

- 2025 OpenGL Introduction, Polytechnique (36h), Teaching Assistant
- 2024/2025 Computer Vision, Polytechnique (12h+18h), Teaching Assistant

Curriculum

- 2024- PhD Student in Computer Science (Claude Bernard University/Polytechnique)
- 2023-2024 Ecole Normal Supérieur (Lyon), Computer Science Department
- 2022-2023 Claude Bernard University (Lyon), Computer Graphics
- 2020-2022 Ecole Normal Supérieur (Lyon), Computer Science Department
- 2018-2020 MPSI, MP* School St-Louis (Paris)

Internships

- 2024 LIX, Polytechnique, 5 months, with Marie-Paule CANI, Implicit surfaces optimisation (Internship preparing my PhD topic).
- 2023 LIRIS, Claude Bernard University, 3 months, with Eric GALIN, Implicit Surfaces Modeling (Internship preparing my PhD topic).
- 2023 **LIRIS**, Claude Bernard University, 5 months, with Jean-Claude IHEL, Defensive sampling for Monte Carlo rendering (Two minor descoveries).
- 2022 University of Edimburg, Edimbourg, 3 months, with Kartic SUBR, NLP for Computer Graphics (Automatic generation of 3D scenes and a user study).
- 2021 INRIA, Bordeaux, 6 weeks, with Pascal BARLA,
 Thin layer modelisation (Software development for BRDF precomputation)

Personal projects (https://github.com/Pierre-HB) Procedural generation of city and road using C++ 2022 Fractal tree with Implicit surfaces using C++ 2022 Ray tracing algorithm to render displacement map using C++ 2020 Greedy algorithm to solve the Travelling salesman problem with intensive optimisations using C++ 2020 First ray tracing algorithm using JAVA 2020 3D engine using OpenGL with JAVA 2019 Improvement of my 3D engine using Python and Ocaml 2019 First 3D engine using Python 2018 2D game in JAVA using LWJGL Languages French Mother tongue English C1 level (Cambridge Advanced) Programming languages o C / C++ Python Miscellaneous Interests Video games O Ballroom dance Hiking Roller

○ Autonomous

Qualities

O Versatile