

## Education

- 2020-2022 **ENSIMAG: Mathematical modeling, vision, graphics and simulation track**, Grenoble, ( $\approx$  master's degree in Computer Science).
- 2020 **Licence in Mathematics and Computer Science**, *Université Paul Sabatier*, Toulouse.

## Experience

### Internships

- June-September 2021 **Lipsync animation generation**, *YAAARGames/ZEILT Productions*.  
I worked on generating lipsync animation from audio and text. I also helped on a production on rendering issues, pipeline automation, and other tasks.  
*Skills: C#/Unity, Python/Maya*
- January-May 2021 **Part-time research project on real-time GI**, *Maverick lab, INRIA Grenoble*.  
I implemented a real-time global illumination method based on lightmap interpolation. I was supervised by Cyril Soler (INRIA Grenoble) and collaborated with Laurent Belcour (Unity Grenoble).  
*Skills: C++, rendering research*
- January-August 2020 **Efficient sampling of energy transitions in the atmosphere**, *STORM lab, Institut de Recherche en Informatique de Toulouse*.  
I developed an algorithm to efficiently sample the energy transitions occurring in the atmosphere. It was used to accelerate the convergence of a Monte Carlo estimator of atmospheric absorption.  
*Skills: C++, Monte Carlo estimation, algorithmic thinking, independent research*
- Summer 2019 **Retina Pictonique project**, *SMAC lab, Institut de Recherche en Informatique de Toulouse*.  
I contributed to the development of an interactive exhibition.  
*Skills: Java, GUI programming, shader programming*

### Personal projects

- C++ Real-time renderer (OpenGL)  
*Features: PBR, deferred shading, normal mapping, image-based lighting*
- C++ Path tracer  
*Features: BVH, next-event estimation, multiple importance sampling*

## Skills

Languages: C, C++, Java, Python, GLSL

OpenGL

Tools: Unix, git, L<sup>A</sup>T<sub>E</sub>X

### Languages

- French Mother tongue  
English Professional