

# OCTAVE CRESPEL

## Research engineer at INRIA

@ octave.crespel@club.fr    +33 (0) 6 07 02 23 16  
📍 Grenoble, France    🌐 github.com/Toctave

## EDUCATION

### Engineering Course

#### École Polytechnique & Ensimag

📅 April 2019 – August 2022    📍 Palaiseau & Grenoble, France

- Master-level programme in France's top engineering school
- Majored in Computer Graphics, with minors in low-level software engineering, applied maths, biology, and physics
- Final year taken at Ensimag in the *Mathematical Models, Graphics and Simulation* track

### Preparatory Course

#### Lycée Stanislas

📅 September 2016 - July 2018    📍 Paris, France

- Intensive course in Maths, Physics and Computer science
- Led to a national ranked exam

## WORK EXPERIENCE

### Research intern

#### ELAN team at INRIA Grenoble-Alpes

📅 April – August 2022    📍 Grenoble, France

- Designed and implemented a collision system for physically-validated hair simulation
- Ground work for a paper to be submitted at Siggraph 2023

### Research intern

#### Mercenaries Engineering

📅 April – August 2021    📍 (Remote) Rennes, France

- Reviewed the state of the art in elastic deformation models
- Improved on a technique to make it more suitable for real-time manipulation
- Demanding work in both C++, theoretical maths and physics

### Pipeline development intern

#### Fix Studio

📅 June – August 2020    📍 Clichy, France

- Worked on advertisements for a Swiss luxury watch brand
- Developed several 3D modelling & shading plug-ins to support the artists' work
- Used expertise in software engineering as well as geometry processing

## HOBBIES & INTERESTS



### 3D Modeling & Animation

President of Polytechnique's graphic design club, Blender user since 2012



### Electronics & Tinkering

Built a racing drone and a home server, experimented with Arduino/ESP8266 programming



### Drums

10-year experience, played in amateur rock/jazz/broadway musical bands



### Rock Climbing

6-hour a week practice, both indoors and outdoors. Free climb 5.10a routes

## LANGUAGES

### English

Fluent, 990/990 TOEIC score

### French

Native Speaker

### German, Russian

Beginner

## PROGRAMMING

- Computer graphics, AI, and video game personal projects in **C**, **C++** with **OpenGL** and **Vulkan**
- General purpose automation in **Python**, **Bash**
- Basic knowledge of **Haskell**, **Rust**, **Lisp**, **x86 & Z80 assembly**, **Java**, and **HTML/CSS/JS**

## MISC. EXPERIENCE

### Student Volunteer

#### Eurographics

📅 April 2022    📍 Reims, France

### Army intern

#### Gendarmerie de Coulommiers

📅 2018    📍 Coulommiers, France