

# MAËLYS JUSSEAU

## Generative AI, 3D & XR Research Engineer

✉ maelys.jusseaux@ik.me    ☎ +33 668660691    🌐 <https://www.maelys-jusseaux.com>  
📄 <https://github.com/maepopi>    📄 <https://www.linkedin.com/in/maelys-jusseaux/>



## SUMMARY

Research Engineer specializing in 3D and Artificial Intelligence, currently working at Nfinite. I design and deploy large-scale, production-ready pipelines by combining innovative solutions across AI, computer vision, and 3D (automated model training systems, image to 3D pipelines). Highly adaptable and fast-learning, I bring a versatile profile with strong technical depth. I also have solid interpersonal skills, enabling effective team coordination, and successful project leadership.

## EXPERIENCE

### 3D & Computer Vision Research Engineer

#### Nfinite SAS

📅 Jul 2022 - Present    📍 Paris, France

- AI engineering, development and project management (multimodal generative AI, fine-tuning, data management, AI pipelines)
- Development and maintenance of AI pipeline tools (automatic training, custom ComfyUI nodes, Gradio playgrounds, etc.)
- AI research, development, evaluation and deployment (research paper monitoring, reports)
- Research and development of 3D features
- Research, development, and implementation of 3D scanning pipelines
- Development and maintenance of 3D model and image management tools
- Development and maintenance of data management tools
- Documentation of developed features and scientific/technical reports

### Co-founder & Secretary

#### Cosmosia Association

📅 July 2022 - Current    📍 Paris, France

- Organization of scientific and artistic events among various research-creation laboratories and cultural actors in France, focusing on art and technology.

### Researcher, TD Pipeline

#### Opuscope SAS

📅 Sept 2017 - Apr 2022    📍 Paris, France

- R&D for Minsar and Wanderland applications
- Design and coordination of the pipeline between marketing, sales, and production departments
- TD tooling and pipeline, writing of technical documentation and tutorials
- Creation and production of 3D, XR, and video
- Responsibility for client technical support and assistance
- Leading masterclasses, workshops, conferences

## SKILLS

### AI Development

#### Frameworks & Tooling

PyTorch   TensorFlow   Keras  
Comfy-UI   Kohya-SS   Gradio  
Diffusers   Transformers

#### Image & Video Generation

Stable Diffusion   Flux   Wan 2.2  
Bytedance Seedream API   LoRAS  
BLoRAS   IPAdapters   Condeltas

#### Text Generation

Open-webui   Gemini API  
OpenAI API   Florence   Moondream  
Deepseek

#### Voice Generation

Tortoise-TTS   Zonos   Index-TTS2  
Coqui   XTTS2

#### 3D Generation & Segmentation

Hunyuan   Trellis   Tripo   Partpacker  
Craftsman3D   SAMesh  
Hunyuanpart3D   Omnipart   Partfield  
SAMPart3D

### Programming

#### Junior

C++   MEL   Lua   Java   Javascript

#### Mid

Python   LaTeX   Markdown

#### Platforms

Linux   Windows   MacOS

#### Versioning & Development

Git   Docker   Conda   UV

### Digital Creation

#### 3D

Blender   Maya   Zbrush   Mudbox  
3DCoat

- Research activities and writing of reports and scientific articles (thesis, symposiums, etc.)

### 3D Generalist internship

#### Iconem

📅 May 2017 - Jul 2017      📍 Paris, France

- R&D for Minsar and Wanderland applications
- Design and coordination of the pipeline between marketing, sales, and production departments
- TD tooling and pipeline, writing of technical documentation and tutorials
- Creation and production of 3D, XR, and video
- Responsibility for client technical support and assistance
- Leading masterclasses, workshops, conferences
- Research activities and writing of reports and scientific articles (thesis, symposiums, etc.)

### 3D Generalist & Developer

#### Association André Breton

📅 May 2016 - May 2017      📍 Paris, France

- Post-production processing of 3D scans
- Development of a scan visualization application for the Centre Pompidou in Paris (the app is still exhibited there currently)

## EDUCATION

### Ph.D. in Esthétique, Sciences et Technologies des Arts

#### Paris 8 University

📅 2018 - 2021      📍 Paris, France

### M.D. in Arts et Technologies de l'Image

#### Paris 8 University

📅 2016 - 2018      📍 Paris, France

### Licence in Arts et Technologies de l'Image

#### Paris 8 University

📅 2015 - 2016      📍 Paris, France

### M.D. in Médiation Culturelle, Patrimoine et Numérique

#### Paris 8-Paris 10 Universities

📅 2013-2014      📍 Paris, France

### M.D. in Museology

#### Ecole du Louvre

📅 2012-2013      📍 Paris, France

### Licence in Art History and Archeology

#### Paris 4 University

📅 2009-2012      📍 Paris, France

#### Scan

RealityCapture    Metashape  
Meshroom    LumaAI

#### 2D

Photoshop    Krita    Substance Suite  
Awesome Bump    XNormal

#### Video

Premiere    After Effects    Kdenlive  
Olive Editor

#### XR Development

#### Engines

Godot    Unity    Unreal Engine

#### Hardware

Hololens    MagicLeap  
Meta (Quest/Rift)    HTC (Vive, Vive Pro)  
WMR (Lenovo, Dell)

## LANGUAGES

#### Beginner

Spanish    Italian    Japanese

#### Fluent

English    French

## HOBBIES & PASSIONS

#### Computing & Programming

Generative AI    Video games  
Video game modding  
AR/VR experiences creation

#### Performing Arts

Theater    Musical    Singing    Ukulele  
Mandolin    Dance    Piano    Drawing

#### Sports

Cycling    Pilates    Swimming    Pilates  
Yoga    Pampering my CAT

#### Fights

Veganism    Animal welfare  
Biodiversity    Ecology    Feminism  
Antiracism    LGBTQIA+ rights