Samuel GONCALVES | Image Processing Engineer | Research

➜ Seaking a final year internship (Master degree level) in **Image Processing** and **AI**.

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⬛ Samuel-Goncalves5   in samuel-goncalves-chercheur

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Passionate about **mathematics**, **computer science** and **research**. Double-degree student-researcher at **EPITA** (double major in Image Processing and Research) and **Sorbonne University** (Image Processing). **DMHSS** (Digital Methods for Humanities and Social Sciences) team in the EPITA research laboratory.

Education

2024-2025   - **Sorbonne University** / IMAges course (Advanced Image and Vision Processing)
                  ➜ Master's degree in computer science - ongoing

2022-2025   - **EPITA** / Engineering cycle / IMAGE (Image Processing) and RDI (Research) courses
                  ➜ Engineering diploma in computer science - ongoing

2022   - **Tampere University** / Erasmus in Finland (International semester)

2020-2022   - **EPITA** / Integrated preparatory cycle

2020   - **Frédéric Mistral** / High school, Mathematics Specialization
                  ➜ General scientific baccalaureate / Highest honour

Projects and professional experience

2023-2025   - **EPITA Research Laboratory (LRE)**
           Student researcher in the DMHSS team (Digital Methods for Humanities and Social Sciences)
           Text processing (LDA, FCA), Digital Humanities, Research, AI (LLM (BERT, GPT, Transformers), RNN)
           Neural networks, Git, Docker, Technical report writing, Bibliography, Lightning Talks, Seminars
                2024-2025 - "*Comparison between topic modelling methods and LLM*" (with Fabrice BOISSIER).
                2023-2024 - "*Automatic language processing applied to the militarisation of children's literature
                      from 1860 to 1919*" (with Marie PUREN and Fabrice BOISSIER).
                      Collaboration with the Bibliothèque Nationale de France (BNF).

2023-2024   - **CNRS / Quinze-Vingts Hospital**
           C++ / CUDA developer on Holovibes software
           Teamwork, Holography, Ophthalmological medical imaging, Parallel / GPU programming

2022/4 months - **Tampere Flut Fest** (Tampere, Finland)
           Web Developer (HTML, CSS, JavaScript)
           Teamwork (6), Agile Scrum Method, React JavaScript, Professional English

2021/2 months - **Images 30**
           Unity / C# Developer
           Team management, Communication, Blender (3D Animation), Physics programming (gravity, trajectory)

Skills

Fields   - Computer vision, Neural networks, CNN, Pattern recognition, Data processing
Computer   - Python (Pytorch, Scikit-Learn), Shell-Bash (GNU/Linux), C++, C, Java, Lisp, OCamL, C#
languages
Languages   - French (Mother tongue), English (TOEIC: 920), Spanish (Notions)

And also...

Hobbies   - Aikido (MJC of Fresnes), role-playing (associations ANTRE and Dés'n'Dés)
Other interests - History, Politics, Music (classical and metal), Video games