

Théo Gigant

Multimodal Deep Learning
PhD student

Paris, France
✉ theo.gigant@l2s.centralesupelec.fr
📄 [giganttheo.github.io](https://github.com/giganttheo)
HuggingFace: [gigant](#)

Education

- 2022–Ongoing **Université Paris-Saclay / Centrale Supélec - L2S,**
Signal Processing, PhD.
Representation of encoded features for extractive and abstractive summarization of multimodal content. Under the supervision of Frederic DUFAUX and Camille GUINAUDEAU
- 2018–2021 **Institut Polytechnique de Paris - Télécom SudParis,**
Statistical Modeling, Master of Science.
Applied Mathematics, Deep Learning

Experiences

- Jan 2022–Jun 2022 **Machine Learning Engineer**, FREELANCE, PARIS.
Implementing computer vision models for real world applications, teaching deep learning classes, contributing to open source projects & writing blog posts on deep learning topics
- Jul 2021–Dec 2021 **Computer Vision Research Intern**, HUAWEI R&D CENTER, HELSINKI.
Part of the Research & Development Computer Vision unit
- Feb 2021–Jun 2021 **Machine Learning Engineer Intern**, JUSTAI, PARIS.
- Jul 2019–Aug 2019 **Machine Learning Research Intern**, ARTEMIS LAB, TÉLÉCOM SUDPARIS, EVRY.

Projects

- 2022–Ongoing **Deep Learning blog posts [Blog]**.
Dec 2022 **Romanian Whisper [Model]**, *HuggingFace*.
- Apr 2022–May 2022 **Open source datasets contributions [Org]**, *BigScience*, BioMedical Hackathon.
- Apr 2022–May 2022 **WikiArt Diffusion Mini [Project]**, *HuggingFace & Paperspace*, HugGAN Sprint.
- Jan 2022– Feb 2022 **Romanian Wav2Vec2 [Model]**, *HuggingFace & OVHCloud*, Robust Speech Recognition Challenge.
- July 2021 **T5-VAE [Demo]**, *HuggingFace & Google Cloud Platform*, JAX/Flax Community Week.

Selected Publications

- Nov 2024 **Mitigating the Impact of Reference Quality on Evaluation of Summarization Systems with Reference-Free Metrics**, *The 2024 Conference on Empirical Methods in Natural Language Processing*, 2024.
- Apr 2024 **Design choices for Vision Language Models in 2024**, *Hugging Face Blog*, 2024.
- Sep 2023 **TIB: A Dataset for Abstractive Summarization of Long Multimodal Videoconference Records**, *20th International Conference on Content-based Multimedia Indexing*, 2023.

Skills

- Deep Learning Multimodal, Natural Language Processing, Computer Vision, Speech Recognition & Graphs
Languages Python (JAX/Flax, PyTorch, TensorFlow), Bash, SQL, Java
Research Interests Vision Language Models, Large Language Models, Evaluation Metrics, Multimodal
Spoken Languages French (native), English (Full professional proficiency : 990/990 TOEIC), Spanish (Notions)

Certifications

- Oct 2024 **Deep Learning Optimized for the Jean-Zay supercomputer (DLO-JZ)**, *IDRIS (CNRS)*.
- Aug 2023 **Hugging Face Audio Course - Certificate of Excellence [Certificate]**, *Hugging Face*.
- Jul 2022 **Effective MLOps - Model Development [Certificate]**, *Weights & Biases*.
- Mar 2022 **Introduction to JAX and Deep Learning [Certificate]**, *Educative.io*.
- Oct 2020 **GAN Specialization [Certificate]**, *DeepLearning.ai*.