

Maxime Fontana, AI Engineer, Ph.D.

+33637726026
maximefontana7@gmail.com
Klodivio355 Maxime Fontana

I am a 26-year-old PhD candidate who has just submitted his thesis. I am specialised in Computer Vision (CV) with experience in designing and optimizing advanced AI architectures. I have a record of first-authored publications to top-tier AI venues such as PIEEE, WACV and CVPR. I am currently seeking for a full-time, on-site role as an AI/CV Engineer.

Education

- 2022 – March 2026 **Ph.D., King's College London** - Computer Vision.
Thesis title: *Efficient Multi-Task Learning for Dense Visual Tasks*.
- 2018 – 2022 **MEng. Computer Science, University of Sheffield**
- 2015 – 2018 **French Baccalaureate, Lycée du Saint-Esprit, Beauvais**

Research

Journal Articles

- 1 M. Fontana, M. Spratling, and M. Shi, "When multitask learning meets partial supervision: A computer vision review," *Proceedings of the IEEE*, vol. 112, no. 6, pp. 516–543, 2024. DOI: 10.1109/JPROC.2024.3435012.

Conference Proceedings

- 1 M. Fontana, M. Spratling, and M. Shi, "FAAR: Efficient frequency-aware multi-task fine-tuning via automatic rank selection," in *IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR 2026)*, Feb. 2026.
- 2 M. Fontana, M. Spratling, and M. Shi, "Optimizing dense visual predictions through multi-task coherence and prioritization," in *Proceedings of the Winter Conference on Applications of Computer Vision (WACV)*, Feb. 2025, pp. 8995–9004.

Skills

- AI Concepts **Various Transformer Models, label/data-limited settings, Diffusion Models, Video Processing, Real-time vision, Vision-Language Models, Distributed Training**
- Academic Services **AI Teaching and Assessment, Conference Peer-Reviewing**
- Languages **French (Native), English (Bilingual).**
- Coding Stack **Python, PyTorch, CUDA, OpenAI API, Java, C, Javascript, SQL.**
- Soft Skills **Teamwork, Organisation, Presentation, Research, Autonomy**
- Hobbies **Guitar, Songwriting**