

# Ivan Khodakov

[🔗 website](#) [✉️ ivan.khodakov@telecom-paris.fr](mailto:ivan.khodakov@telecom-paris.fr) [📞 +33 6 12 35 54 68](#) [in](#) [ORCID](#)

## Education

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- ENS Lyon** *M1 specialization in Computer Science, 2025 – 2027*
- Maths : Linear and Non Linear Optimization, Cryptography and Security.
  - Computer Science : Parallel Algorithms and Programs, Compilation and Program Analysis, Network Measurements.
- Télécom Paris** *M1 specialization in Image Processing and Data Science, 2022 – 2024*
- Maths : Statistics, Optimisation, Probability, Fourier Analysis.
  - ML/AI : Supervised and Unsupervised ML, Graph Learning, Trees, SVM, CNN, VAE, GAN, Transformer, NLP, LLMs.
  - Computer Vision : Segmentation, Boundary detection, Object Recognition, Image registration, Restoration, Compression. Using Variational and Bayesian methods, Markov random fields, Graphs.
- Lycée Janson de Sailly/ Henri Wallon** *Preparatory class PC\*\*, 2019 – 2022*
- An intensive post-secondary program preparing for national competitive exams to get into engineering schools (Mathematics, Physics, Chemistry, Computer Science, English, Philosophy).

## Experience

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- Research Internship (Gap Year)** *Orosound* [🔗](#), March 2025 – September 2025
- Working with Thomas Serre and Eric Benhaim on knowledge distillation to reduce complexity of personalized speech enhancement models.
  - Leading to a publication at ICASSP 2026.
- Research Internship (Gap Year)** *LTCI* [🔗](#), Sept 2024 – Febr 2025
- Working with Enzo Tartaglione and Ekaterina Iakovleva on Machine Unlearning in team Multimedia.
- President of a student humanitarian association** *Télespoir* [🔗](#), 2023 – 2024
- Led a one-month humanitarian mission in Senegal with a team of 7 students, successfully renovating 4 classrooms and constructing 2 new ones. Raised €9,000 through grant application and event organization.
  - Successfully organized student events with hundreds of participants.

## Publications

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- Khodakov Ivan**, Serre Thomas, Fontaine Mathieu, and Benhaim Eric (2026). “DualDF : A lightheaded personalized speech enhancement system obtained through knowledge distillation”. In: *ICASSP 2026 - 2026 IEEE International Conference on Acoustics, Speech and Signal Processing (waiting for final acceptance but reviews are positive)*. URL: <https://ivankhodakov.github.io/files/icassp26.pdf>.

## Projects

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- Research project on StyleGAN2** [🔗](#) June 2024
- Editing of face images by manipulating latent codes. To exhibit semantics I used PCA and SVMs.
- Skin Lesion Classification - ISIC dataset** [🔗](#) April 2024
- Scored among the best in a Kaggle competition among students in Télécom Paris. The aim was to classify skin lesions into 9 classes. Tools Used: CNN, Resnet50, Pytorch, Data Augmentation, Feature Extraction.
- Other Projects** [🔗](#) 2023
- Predict the outcome of a football match. Tools Used : XGBoost, Weights and Biases.
  - Detection JPEG compression and forgeries in Python in image using algorithms like the DCT of the images.
  - Creation of a mobile recipe application with carbon footprint computation.