

Theo Lepage

Speech/Voice AI Researcher • Ph.D. in AI • Self-Supervised Learning & Speaker Recognition

📍 Paris, France (open to relocation EU/US) 🌐 theolepage.com ✉ contact@theolepage.com  [Theo Lepage](#)  [theolepage](#)

Experience

Ph.D. Researcher at  [Sorbonne Université / LRE-EPITA](#) 📍 Paris, France 📅 Nov. 2022 - May 2026

- Developed self-supervised models for speaker verification, with DINO-WavLM achieving SOTA on VoxCeleb (1.06% EER on Vox1-O)
- Proposed SSPS, a latent-space positive sampling for SSL frameworks, mitigating extrinsic variability (-58% EER for SimCLR)
- Built and maintained sslsv, an open-source PyTorch toolkit for training and evaluating self-supervised speaker models
- Published 8 papers in leading speech venues including Interspeech, IEEE TASLP, and Speech Communication

Research Scientist (Internship) at  [Siemens Healthineers](#) 📍 Princeton, USA 📅 Feb. 2022 - Sep. 2022

- Developed deep learning models (CNN with self-attention) for end-to-end MR image enhancement (denoising & super-resolution)

Software Engineer (Internship) at  [CNRS](#) 📍 Paris, France 📅 Sep. 2020 - Jan. 2021

- Contributed to Hologibes, real-time digital holography software for retinal blood flow analysis → 20× input throughput (10,000 FPS)

Education

 [Sorbonne Université](#) (Ph.D. in Artificial Intelligence)

📍 Paris, France 📅 Nov. 2022 - May 2026

Thesis: Self-Supervised Learning for Speaker Recognition • Supervised by Reda Dehak and Thierry Géraud @ LRE-EPITA

 [École Pour l'Informatique et les Techniques Avancées - EPITA](#) (M.Eng. in Computer Science)

📍 Paris, France 📅 Sep. 2017 - Sep. 2022 📊 GPA: 3.9/4.0

Major: AI/ML for Computer Vision • Research student • Teaching assistant (C, Unix) • International section • Exchange semester @ CSUMB

Publications

Selected first-author articles • Full list on  [Google Scholar](#)

📄 [Self-Supervised Learning for Speaker Recognition: A study and review](#) Speech Communication • 2026

📄 [SSPS: Self-Supervised Positive Sampling for Robust Self-Supervised Speaker Verification](#) Interspeech • 2025

📄 [Self-Supervised Frameworks for Speaker Verification via Bootstrapped Positive Sampling](#) IEEE TASLP • 2025

Projects

📁 [speakerscope.ai](#)

Speaker diarization with ID, gender, language, and emotion insights via web or API, powered by SOTA AI models.

📁 [sslsv](#)

Deep learning toolkit based on PyTorch for training & evaluating self-supervised models for speaker verification.

📁 [wavlm_ssl_sv](#)

Self-supervised framework to fine-tune WavLM for speaker verification, without labels, achieving SOTA on VoxCeleb.

Miscellaneous

Skills

AI/ML:

PyTorch

TensorFlow

Scikit-learn

NumPy

Pandas

Programming:

Python

C

C++

CUDA

JavaScript

Bash

Tools:

Git

LaTeX

Docker

Slurm

SQL

Languages:

English (fluent)

French (native)

Teaching

Intro to Deep Learning (2023-2025 @ EPITA)

Python for Data Science (2023-2025 @ EPITA)

Awards & Honors

3rd place @ ASVspoof 5 (Track 1, Open)

Academic Service

Reviewer for Interspeech & ICASSP