

Antoine Honoré, Ph.D.



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Objective

Currently developing deep learning models for biology & medicine as a postdoc researcher. I am seeking opportunities in the industry to apply signal processing drive innovation in multimodal data integration and AI-driven solutions.

Work Experience

- 2025 – now **Junior researcher**, Neonatal Transfusion Network.
Project: Data Science, Exploratory data analysis (EDA) with Oxford, Charité Berlin, Karolinska Institutet.
- 2023 – now **WASP Postdoc**, KTH Royal Institute of Technology, Stockholm, Sweden.
Project: AI research, Predicting Chemotherapy Sensitivity using Graph Neural Networks Based on Deep Mutational Scanning
- 2016 – 2018 **Research assistant**, Karolinska Institutet, Stockholm, Sweden.
Project: Data science, Establishing an extraction, transformation and loading (ETL) pipeline for the ICU data (Available on Github)

Education

- 2018 – 2023 **Ph.D., KTH Royal Institute of Technology, Stockholm, Sweden**
AI for medical diagnostics, Signal processing.
Thesis title: *Perspectives of Deep Learning for Neonatal Sepsis Detection*.
- 2013 – 2016 **M.Sc. Grenoble INP PHELM, Grenoble, France** in Electrical Engineering.
Double degree with KTH Royal Institute of Technology, Stockholm, Sweden.
Majors: *Signal Processing, Optimization*.
- 2011 – 2013 **CPGE, Lycée Victor Grignard, Cherbourg, France**
Majors: *Mathematics and Theoretical Physics*.

Skills

AI/ML	Deep generative models: VAE, Normalizing flows; Sequence/graph models: RNN, HMM, Transformers, GCN; Signal processing, convex optimization.
Biomedical AI	Clinical decision support from bedside time series, Variant effect prediction from multimodal data (MSA, protein structure)
Programming	Python (pandas, numpy, sklearn, pytorch+cuda, lightning), Rust, C.
Systems/Databases	GNU/Linux, Bash, Powershell, Singularity, SLURM, PostgreSQL.
Languages	French (Native), English (Fluent), Swedish (Basics).
Soft	Teaching, supervising, mentoring. Interdisciplinary collaboration.

Shenanigans

Improv theater, tennis, running. Reading: sociology, economy.