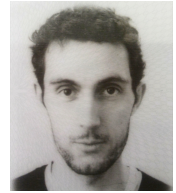


# Antoine Honoré, Ph.D.



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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 for AI-driven innovation in multimodal data integration 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 PHELMMA, 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.