



# Antoine Honoré, PhD

## STATEMENT

I thrived during my PhD studies while designing clinical decision support systems in collaboration with medical doctors. I am keen to utilize my skills for new meaningful problems in industry R&D oriented positions.

## EDUCATION

### Ph.D. AI in Biomedical Engineering | 2023

Title: "Perspectives of Deep Learning for Neonatal Sepsis Detection"  
KTH Royal Institute of Technology, Stockholm, Sweden

### M.Sc. Electrical Engineering | 2017

Majors: Signal Processing, Optimization.  
Grenoble INP-Phelma, Grenoble, France

### Classe Préparatoire aux Grandes Ecoles (MPSI - MP) | 2013

Majors: Mathematics and Theoretical Physics.  
Lycée Victor Grignard, Cherbourg, France

## RESEARCH

### Postdoc | November 2023 -

*Collaborative project with biologists at the department of physiology and pharmacology, Karolinska Institutet*

### Key contributions

- Design and study of genetic variants effect predictors for drug transporter proteins
- Research project design, student mentorship

### PhD Student | October 2018 - August 2023

Thesis online: [diva2:1109509](https://diva2.1109509)

*Collaborative project with medical doctors at the department of Women's and Children's Health, Karolinska Institutet*

### Key outcomes

- Machine learning-based clinical decision support systems for the analysis of bedside monitoring time series
- Data management pipeline for secure and efficient data collecting, parsing and querying (URL: [Github](#), [Gitlab](#))



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## SKILLS HIGHLIGHT

- Design, implementation, evaluation of **AI for biomedicine**
- Theory and practice of generative AI, recurrent networks and variational **deep learning** algorithms
- **Theory and practice** of signal processing, statistical modeling, optimization
- **Autonomy and communication** in multi-disciplinary environments
- Python **programming**: (pandas, numpy, sklearn, pytorch+cuda, lightning), PostgreSQL, Rust, Powershell.

## LANGUAGES

- **English** - Fluent
- **French** - Native
- **Swedish** - Basic

## HOBBIES

- Tennis
- Running
- Reading