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EDUCATION

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**PhD – Mila, Université de Montréal**

started 1/2025

*Machine learning*

Supervised by Simon Lacoste-Julien and Dhanya Sridhar

**Engineering Master's degree – CentraleSupélec Paris-Saclay**

9/2020 – 5/2024

*Applied Mathematics and Data Science*One year academic exchange program at **Politecnico di Milano** and **TU Berlin**One year research experience at **Stanford University** and **Mila****Research Master's degree – École Normale Supérieure Paris-Saclay**

9/2023 – 5/2024

*Mathematics and Machine Learning***Alongside my engineering degree – Master MVA****Bachelor's degree – Sorbonne Université**

9/2020 – 6/2021

*Philosophy***Alongside my scientific studies –** Direct admission in final year of the bachelor**Preparatory classes to Grandes Écoles – Lycée Sainte-Geneviève**

9/2017 – 7/2020

*Physics, Mathematics, Chemistry***Intensive undergraduate program** for the national competitive entrance exams

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WORK EXPERIENCE

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**Research intern – InstaDeep**

5/2024 – 11/2024

6 months

**Protein inverse folding** using pretrained protein LMs and discrete flow matching, and improving **protein structure tokenization**, supervised by Jérémie Donà**Student project – Inria Saclay & Mila**

10/2023 – 5/2024

8 months

Improving **frame-averaging equivariant GNNs** performance-scalability trade-off for catalyst discovery, supervised by Fragkiskos Malliaros (Inria) and David Rolnick (Mila)**Research intern – Mila, Yoshua Bengio's group**

4/2023 – 9/2023

6 months

**Bayesian causal discovery**, learning large-scale Bayesian networks with generative flow networks, supervised by Yoshua Bengio**Visiting student researcher – Stanford University, Gentles Lab.**

9/2022 – 3/2023

7 months

Degenerative disease profiling from multiplexed imaging, supervised by Andrew Gentles:

- Deriving **Bayesian networks** of **protein interactions**
- **Characterizing tumor micro-environments** with GNNs

**Statistician intern – CNRS, Signals and Systems Lab.**

2/2022 – 4/2022

2 months

Identifying bacteria of the microbiota explaining **kidney transplant rejection** using **phylogeny informed kernels**, supervised by Arthur Tenenhaus**Research assistant intern – CEA Saclay**

6/2021 – 7/2021

2 months

Testing of a non-destructive **eddy current sensor**, supervised by Dr. Denis Premel

## ACADEMIC SERVICE

ICLR'25 Workshop Frontiers in Probabilistic Inference	2025
NeurIPS'24 Workshop Causality and Large Models	2024

## AWARDS

<b>iGEM Gold Medal</b> – awarded world best Hardware, nominated for world best Software	2023
<b>France-Stanford Center for Interdisciplinary Studies</b> fellowship – 8 recipients nationwide	2022
CentraleSupélec prize for <b>community service and academic excellence</b> – 9 recipients among 4700 students	2021
European <b>Erasmus+</b> scholarship	2021
1 <sup>st</sup> prize of <b>CentraleSupélec Alumni</b> project idea	2020
<b>Provence region</b> merit prize for high school students	2017
Cicero <b>national Latin translation</b> contest laureate	2016

## VOLUNTEERING

<b>Elected member of the academic board – Université Paris-Saclay</b>	2/2022 – 2/2024 2 years
Contributing to deliberations, and having a <b>deciding vote</b> on academic matters of Université Paris-Saclay: financing students' projects, discussing new graduate tracks, and updating current ones	
<b>Team member – iGEM Evry-Paris-Saclay team</b>	5/2023 – 11/2023 6 months
Software group, implemented simple <b>pathfinding algorithms</b> for a microfluidics plate Human Practice group, discussed the <b>ethics of optogenetics and automation in bio labs</b>	
<b>Student expert – High Council for the Evaluation of Research and Higher Ed.</b>	1/2021 – 5/2022 1.5 years
Member of <b>evaluation committees</b> of engineering schools for the HCÉRES: conducting staff interviews, assessing activity reports, writing public accounts	
<b>Project manager – National Board of French Engineering Students</b>	9/2020 – 10/2021 1 year
Defined a new <b>membership strategy</b> , reached out to student associations during the pandemic BNEI represents all 185,000 French engineering students by federating unions and representatives	
<b>Chairman – IEEE Paris-Saclay student branch</b>	9/2020 – 10/2021 1 year
Hosted a <b>project contest</b> : contacting juries, raising a 1000€ grant, broadcast live the event Supervised <b>laboratory visits</b> : setting up 6 visits for around 100 students in total Presented research at CentraleSupélec to the incoming student batch (~900 students)	

## SCIENTIFIC OUTREACH

<b>Contributor – Data For Good, France</b>	2/2023 – 9/2023 7 months
Co-author of the white paper "The great challenges of Generative AI", published in July 2023	
<b>Teacher – Stanford Splash, California, USA</b>	11/2022 1 weekend
Taught the classes " <b>Philosophy of time</b> " and " <b>Creativity and AI</b> " to high school students Splash is a two-day marathon of classes in open to all students from 12 to 18 for free	
<b>Tutor – OSER student association, France</b>	9/2020 – 6/2021 9 months
Intervened weekly for students from underprivileged areas to help them <b>fulfil their ambitions</b> and broaden their cultural and scientific horizons	

## VARIOUS SKILLS

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**Programing** : Python (PyTorch, JAX), R (bnlearn, Stan)

**Languages**: native French, fluent English (TOEFL 113/120), advanced German (B2 level)