

OLIVIER BOUËT-WILLAUMEZ

PhD Student ~ Computer Science

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CURRENT POSITION

I am currently a PhD student in Computer Science at the University of Paris-Est Créteil (UPEC), in the Laboratory of Algorithms, Complexity, and Logic (LACL), under the supervision of **Nihal Pekergin**. My thesis is titled: "Machine Learning of Continuous Systems Based on Probabilistic Approximations."

SKILLS

Mathematics (Theoretical and Applied)

Machine Learning, High-Dimensional Statistics, Optimization, Differential Equations, Bayesian Networks, Markov Chains.

Programming Languages and Tools

Python, Julia, R, MATLAB, Git, Docker, BASH, $\text{\LaTeX}$, HTML.

EDUCATION

2024 - ...

PhD - Computer Science

[University of Paris-Est Créteil](#)

Machine Learning of Continuous Systems Based on Probabilistic Approximations. Laboratory of Algorithms, Complexity, and Logic (LACL).

2022 - 2024

Master's Degree - Mathematics, Modeling and Statistical Learning

[University of Paris Cité](#)

Specialization: Modeling, Analysis, and Simulation. Graduated with High Honors.

2020 - 2022

Bachelor's Degree - Fundamental and Applied Mathematics

[University of Paris Cité](#)

Graduated with Honors.

2019 - 2020

Double Bachelor's Degree - Mathematics and Computer Science

[University of Paris Cité](#)

Completed first year with Honors.

EXPERIENCE

02 - 08/2024

Research Engineer – Final Internship

[Dassault Systèmes](#)

Research project on Deep Gaussian Processes for multi-fidelity simulation, with applications in thermal systems. Tasks included literature review, model development, experimentation, and results presentation via technical reports and seminars in the company's Research Division.

06 - 10/2023

Administrative Assistant – University Contact Center

[University of Paris Cité](#)

Assisted students with administrative procedures (enrollment, applications, diploma requests) through a contact center (phone and email support).

PUBLICATIONS

Preprint

Conference - QEST + FORMATS 2025

[\[Paper\]](#)

Conservation Analysis and Discrete Probabilistic Approximations for Parameter Estimation of Biochemical Networks, O. Bouët-Willaumez, A. Le Coënt, B. Barbot, N. Pekergin, *Quantitative Evaluation of SysTems + Formal Modeling and Analysis of Timed Systems (QEST+FORMATS)*, 2025.

PROJECTS

Library

BayeSBML

[\[Source Code\]](#)

Python library for conservation analysis and discrete probabilistic approximations to estimate parameters in biochemical networks.

LANGUAGES

French - Native, **English** - Fluent, **Spanish** - Basics.