

Laurens de Boer

PhD Candidate in Computational Chemistry

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Nationality: Dutch

Date of Birth: 19 Nov 1996, Amsterdam, NL

Address: 9 Avenue Blaise Pascal, Champs sur Marne, France



Experience

Anita Conti Sustainable Innovation Fellowship, HKUST

Jul 2025 – Sep 2025

Research Fellow — Supervised by Prof. Haibin Su

Awarded by the French Consulate in Hong Kong for excellence in sustainable innovation and for fostering France–Hong Kong collaboration. Simulated fatty acid pyrolysis using molecular dynamics (ReaxFF with LAMMPS).

Rougevc, Hong Kong

Apr 2023 – Sep 2023

Associate Intern

Developed AI models for agricultural analysis aiding Thai rice farmers. Recruited AI startups for sustainable innovation.

Education

Université Gustave Eiffel, France

Oct 2024 – Present

PhD in Computational Chemistry

Thesis: *Theoretical studies on enhancing biofuels*

Supervisors: Prof. R. Linguerri, Prof. M. Hochlaf

University of Siena, Italy

Oct 2022 – Jul 2024

MSc in Sustainable Industrial Pharmaceutical Biotechnology

Thesis: *In silico insights on tumor angiogenesis inhibition using antibodies*

Grade: Cum Laude (110L/110)

Supervisor: Prof. M. Orlandini

Publication: de Boer, L. *Int. J. Biol. Macromol.* **2025**, *242*, 143118.

<https://doi.org/10.1016/j.ijbiomac.2025.143118>

University of Siena, Italy

Oct 2019 – Oct 2022

BSc in Chemistry

Thesis: *Nutrient dynamics in urban aquatic ecosystems*

Grade: 102/110

Supervisor: Prof. S. Loiséle

Skills

Languages: Dutch (C2), English (C1), Italian (C1), French (B1)

Programming: Python, R, \LaTeX , Java

Technical: Computational Chemistry, Biofuels, Molecular Dynamics (LAMMPS, GROMACS), DFT, Machine Learning