



Lucas Dansler

Chemometrician | PhD Student

After having worked as a Chemometrician for 4 years, I pursued a PhD that would allow me to combine my interests in chemistry and machine learning to address complex challenges in energy systems and sustainable applications.

Contact

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Skills

Chemometrics & MVA (PCA, PLS, CART, SVM)
R/MATLAB programming
Analytical Chemistry (IR, NMR)

Language

French: Native
English: C1

Interests

Motorsport & automotive engineering

Video games & consumer electronics (DIY repairs...)

Education

2024-2027 | PhD | Université de Lille, Lille

2018-2020 | MSc Chemistry “CACQ-OPEX” | UBO, Brest

- > Chemometrics
- > Analytical chemistry
- > Statistics for quality

2015-2018 | BSc in Chemistry | UBO, Brest

Experience

2024-2027 | PhD | IFP Energies Nouvelles, Lyon, France

Machine learning applied to the characterization of fluids used in electric propulsion chains.

January 2024-June 2024 (Fixed-term) | Chemometrician | Arvalis, Boigneville, France

- > Developed NIR models (PLS, SVM, ANN, Regression Trees...) for starch, protein, nitrogen content in poultry manure

September 2022-December 2023 | NIR R&D Assistant | Cargill, Yffiniac, France

- > Prepared and analyzed samples (drying, grinding, NIR scanning)
- > Developed NIR models (PLS) for various products (poultry/cow manure, algae, grass/corn silage) for various properties (protein, starch, Phosphorus, moisture...) on both wet and dry products

May 2021-August 2022 | Engineer | Akka Technologies, Paris, France

- > Evaluated gas analyzer (performance, cost, ease of use) through laboratory tests and statistical analysis of data

September 2020-April 2021 (Fixed-term) | Chemometrician | MAF RODA, Montauban, France

- > Developed NIR calibration transfer methodology
- > Developed VIS/NIR models for the prediction of various fruit properties (Brix index, acidity)
- > Trained personnel on internal modelling software

March 2020-August 2020 | Internship in Chemometrics | Total, Donges, France

Subject: NIR characterization of petroleum product

- > Updated NIR models (PLS) for online and laboratory analysis
- > Measured NIR spectra and managed the NIR database