



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 applied to innovative mobility systems and solutions

24/06/1997
Driving licence

Contact

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in <https://www.linkedin.com/in/lucdan/>

Skills

Chemometrics
Infrared Spectroscopy
R programming
Analytical Chemistry

Language

French: Native
English: C1

Interests

Motorsport
Consumer electronics
Video games

Education

2024-2027> PhD> Université de Lille, Lille

2018-2020> MsC Chemistry “CACQ-OPEX”> UBO, Brest

- > Chemometrics
- > Analytical chemistry
- > Statistics for quality
- > CLES B2 (English) certification

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 (CDD)> Chemometrician> Arvalis, Boigneville, France

- > Near Infrared model development (PLS, SVM, ANN...)

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

- > Sample preparation and analysis (drying, grinding, NIR scanning)
- > NIR model development

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

- > Gaz analyzer evaluation (performance, cost, ease of use)
- > Laboratory analysis
- > Statistical analysis of laboratory data

September 2020-April 2021 (CDD)> Chemometrician> MAF RODA, Montauban, France

- > R&D (R programming): Calibration transfer and ML methods
- > VIS/NIR model development and data exploration
- > Train personnel on internal modelling software

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

NIR characterization of petroleum product

- > Updating NIR models for online and laboratory analysis
- > NIR measurements
- > NIR database management