



Eva Jadot

First-year PhD student working on the combustion behaviors during the thermal runaway of lithium ion batteries and its modeling. PhD in partnership with SAFT, IFP Energies Nouvelles and ENSTA Paris.



Professional experiences

Today
↑
October
2024

PhD – Modeling Combustion of the Emitted Gas during Thermal Runaway of Lithium-Ion Batteries.

SAFT, Bordeaux, France.

- Development of a detailed multiphase thermal runaway kinetic model to understand the evolution of gas-phase composition throughout the phenomenon.
- PhD in partnership with IFP Energies Nouvelles and ENSTA Paris.

August
2024
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March
2024

Internship – Effect of NO_x Addition on Fundamental Characteristics of Ammonia Combustion.

IFP Energies Nouvelles, Rueil-Malmaison, France.

- Simulation of the effect of NO_x on NH₃/H₂ combustion over ignition delay time, laminar flame speed and NO_x emissions.
- Experimental verification of the simulated effects using a rapid compression machine at PRISME Laboratory, Orléans.
- Study towards potential NO_x recirculation technique for zero-carbon fuels.

February
2023
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January
2023

Internship – Second-harmonic generation imaging.

ISM, Talence, France.

- Second-harmonic generation (SHG) imaging of materials.
- Determination of the structure of Douglas-fir.
- Analysis of protein crystals.

June 2022
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May 2022

Internship – GDOES characterization of electrochromic films.

PLACAMAT, Pessac, France.

- Glow-discharge optical emission spectroscopy (GDOES) of electrochromic films.
- Realization of calibration curves for several elements.
- Analysis of the chemical composition of samples.



Education

2024
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2022

Master's Degree of Chemistry - Physical chemistry and chemical physics LIGHT S&T Graduate Program (Graduated).

University of Bordeaux, Talence, France.

Courses and Achievements:

- Courses, tutorials, and practical training in theoretical and experimental physics-chemistry.
- Choice of elective courses related to kinetics, surface analysis spectroscopy, and microscopy.

2022
↑
2019

Bachelor's Degree of Physics and Chemistry (Graduated).

University of Bordeaux, Talence, France.



Contact



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Skills

- Physics and chemistry scientific background.
- Thorough understanding of scientific method for kinetics and combustion.
- Proficiency in programming languages.
- Analytical mind & critical thinking.
- Team spirit.
- Rigor.
- Curiosity.



Tools

Office suite	Fully
Python / Fortran	Advanced
Chemkin Pro	Intermediate
Ampac	Intermediate



Languages

French	Native
English	Fluent
Japanese	Advanced



Miscellaneous

- Vice-president of the PCCP master association.
- Volunteer delegate for exchange student in the PIE association.
- Judo.
- Running.