Louis Changeur
1st year PhD Student

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RESEARCH INTERESTS

Molecular heterobimetallic catalysts for CO2 electro- and photoreduction.

- Organic and inorganic synthesis
- Homogeneous electrocatalysis and photocatalysis
- Heterogenization of molecular catalysts

EDUCATIONAL BACKGROUND

2025 – Today **PhD Student**
Collège de France, Paris, France

2024 – 2025 **Master's degree in chemistry, specialization in molecular chemistry (M2 MOL)**
Sorbonne Université, Paris, France

2023 – 2024 **Master's degree preparing for the French « agrégation » in chemistry (M2 FESup)**
« Agrégation » laureate, ranked 2nd
École Normale Supérieure de Paris-Saclay, Gif-sur-Yvette, France

2021 – 2025 **Degree from ENS Paris-Saclay, Chemistry department**
École Normale Supérieure de Paris-Saclay, Gif-sur-Yvette, France

2019-2021 **Intensive 2-year class preparing for the entrance examinations to the French Grandes Écoles – CPGE BCPST**
Lycée Henri IV, Paris, France

RESEARCH EXPERIENCE

Feb. – July 2025 **Laboratoire de Chimie des Processus Biologiques, Collège de France, Paris, France**
Internship for the second year of master's degree (M2): *Molecular, bioinspired, and heterogenized molecular catalysts for carbon dioxide electroreduction*

Apr. – July 2023 **Heterogeneous Catalysis and Sustainable Chemistry, Van't Hoff Institute for Molecular Sciences, University of Amsterdam, The Netherlands**
Internship for the first year of master's degree (M1): *Influence of the electrolyte cation on the efficiency of the electrochemical reduction of CO_2 on polycrystalline copper electrode*

May – July 2022 **Laboratoire de Catalyse Organométallique, Synthèse Organique, et Santé, Institut Le Bel, Université de Strasbourg, France**
Internship for the third year of bachelor's degree (L3): *Synthesis of CAD enzyme inhibitors for hepatitis D treatment*

Nov. 2021 – May 2022 **Laboratoire de Photophysique et Photochimie Supramoléculaires et Macromoléculaires, ENS Paris-Saclay, Gif-sur-Yvette, France**
Laboratory work conducted one day per week: *Development of microfluidic devices for the detection of bacteria by nanoluminescence*

PUBLICATIONS

Deacon-Price, C., **Changeur, L.**, Santana, C.S. and Garcia, A.C., **2024**. The effect of the tetraalkylammonium cation in the electrochemical CO2 reduction reaction on copper electrode. *ACS catalysis*, *14*(17), pp.12928-12939.

CONFERENCE PRESENTATIONS

09/2022 **Undergraduate internship presentation day**
Poster: *Synthesis of CAD enzyme inhibitors for hepatitis D treatment*

04/2022 **Presentation day for research mini-projects**
Poster: *Volume contraction of the water-ethanol mixture*