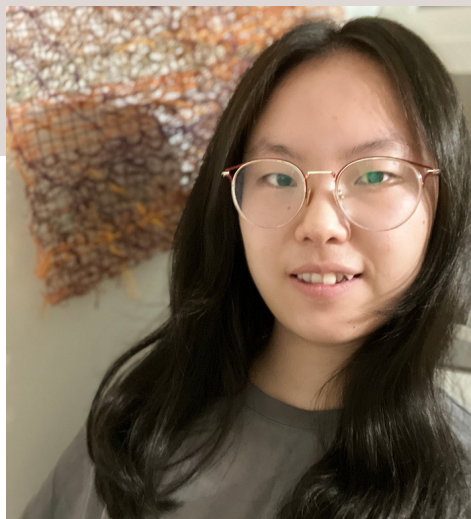




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✉ sisi.zhu@chimieparistech.psl.eu
📍 8 Rue Frederic Magisson 75015 Paris

Skills

Computer skills

Office package: Word, Excel, Power Point, One note
Basics about C language, Python, and HYSYS

Languages

French (TCF B2 2018)
English (TOEIC 885/990 2022)
Japanese (daily communication)
Mandarin (native language)

Activities

Sports:

Ping-pong (6 years, competition in province Jiangsu in China);
Swimming; Badminton etc.

Music:

Classical Guitar (2 years);
Electrical piano; Singing

SISI ZHU



Education

Chimie ParisTech – PSL

2023 – 2026 **PhD Project – ED406**
Instrumental and methodological developments for the on-line coupling of microfluidic capillary electrophoresis to surface enhanced Raman spectroscopy (MCE-SERS) applied to the separation and identification of submicro- and nanoplastics in water
Supervision of Master internships

Chimie ParisTech – PSL

2020 – 2023 **Specialty:** Analytical and biochemistry; Biotechnology; Formulation & Cosmetics
Most analytical methods mastered, fundamental knowledge in biology, diagnostic methods, miniaturization of analytical methods on chip, microfluidics, anticancer drug, formulation, emulsion etc.



Work Experience

Internship—Air Liquide Innovation, Shanghai

2023.02 – 2023.08 **Subject:** Lithium-ion battery (LIB) materials
Atomic Layer Deposition (ALD) coating technique is applied on the cathode active material of lithium-ion batteries to improve the battery performance. XPS, ICP, TEM etc are used for powder morphology characterizations, and CV, capacity test, cycle test, rate test are used for battery performance characterizations.

Internship—CNRS-IRCP, Paris

2022.04 – 2022.08 **Subject:** Synthesis and electrochemical characterizations of new water-miscible ionic liquids and their mixtures with water
A new ionic liquid that would serve as an electrolyte applied in Mg batteries was synthesized with an optimized synthesis pathway, their mixtures of different concentrations with water were studied with electrochemical methods.

Projects with companies

2021.01 – 2021.06 **Client:** Eurofins
Subject: International valorization of analytical methods (RMN-FINS)
2022.09 – 2023.01 **Client:** OnePoint
Subject: Challenges of critical metals and rare earth for the Energy Transition in Europe