

# WANG YEWEI

[ywei.wang@ifpen.fr](mailto:ywei.wang@ifpen.fr) 

1 Rue Joliot Curie, 91190 Gif-sur-Yvette

## Education

---

**09.2023 - 09.2024: ENS Paris-Saclay**

M2 Mechanics of materials for enGineering and Integrity of Structures

**09.2022 - 09.2023: ENS Paris-Saclay**

M1 Mechanics of Materials and Structures

**09.2018 - 09.2022: National Institute of Applied Sciences (INSA HDF) & Wuhan Institute of Technology**

Mechanical engineering

**Main courses:** Mechanics of materials, Finite element method, Continuum mechanics, Digital image correlation, Vibration of solids, Materials sciences.

## Experience

---

**11.2024 - 10.2027 PhD (IFPEN & Univ. Paris-Saclay)**

*Modeling of Dendrite Priming in All-Solid-State Lithium Battery Cells*

- ⊙ Multi-physics modelling
- ⊙ Electrochemistry, mechanics of continuous media, mechanics of material fracture
- ⊙ Formulation phase field

**02.2024 - 07.2024 Internship (LMPS)**

*Design of tests under biaxial tension-compression and high-speed loading*

- ⊙ Dynamic loading, uni- and biaxial behaviors
- ⊙ Experimental mechanics, Hopkinson bars
- ⊙ Finite element modeling

**10.2023 - 01.2024 Project (ENS Paris-Saclay)**

*Modeling of thermomechanical coupling of samples under dynamic loading*

- ⊙ Propagation of elasto-plastic waves
- ⊙ Mechanical and thermal coupling

**04.2022 Internship (LAMIH UMR CNRS 8201)**

*Numerical and experimental studies of cyclonic flows: application to air pollution control*

- ⊙ Study of particle morphology
- ⊙ Image processing

## Skills

---

- **Mechanical:** ANSYS, Abaqus, Solidworks, CAD, Freefem++
- **Programming:** Matlab, Python, Latex
- **Languages:** French (fluent), English (advanced), Chinese (native)