

Sébastien HUCLIN

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After a Master in renewable energies and a final internship on how to think about storage systems for a better integration of renewable energies. I wish to continue on the same issue during a PhD.

Personal skills

Energy Energy efficiency, renewable energy (solar, wind, biomass), energy recovery

Materials Crystallography, Analysis methods (AFM, TEM, SEM, XRD)

IT Python, C, Pack Office, GNU Plot, +COMFI, SolidWorks, Pack Office, Matlab

Languages French (native), English (B2), Spanish (B2)

Other interest

Scuba diving (Level 2), Tennis, Road cycling, Travel around Europe and South America.

Education

2017-2018 Master 2 *Université Paris-Sud (France)*

Physic and engineering of energy

Modules included: Thermal and Fluid Mechanics applied to production and storage of renewable energy, materials for energy, Photovoltaic, Popular Science.

2016-2017 Master 1 *Université Paris-Sud (France)*

Energy and Materials

Modules included: Analysis Method, Solid State physics and solid chemistry, Sustainable development, project management, Energy economy.

2013-2016 Bachelor of Science *Université d'Evry (France)*

Applied and Fundamental Physics

Work experience

2018 *BC3 (Basque Center for Climate Change)-
Leioa (Spain)*

(from March
to today)

Internship: How storage could allow a better integration of renewable energy

Bibliographic study, implementation of a Matlab model based on renewable energy production and consumption (Residual Load Curve). The main goal is to visualise synergies between baseload, solar/wind electricity production and storage in order to avoid curtailment. In fine, these results should be implemented in an Integrated Assessment Model (GCAM).

2017 *CNRS (National center of scientific research)-
INRA (National Institute of agronomic research)-
Université de Montpellier (France)*

(5 months)

Internship: Electrical characterisation of biomass

Measurement of dielectric properties after preparation of suitable specimens. This data has made it possible to adjust the electrostatic sorting for breaking up a rice husk with a view to recovering energy.

2016 *Université Paris VI - Laboratoire Kastler Brossel
(France)*

(1 month)

Observation Internship: Sympathetic cooling of H_2^+ ions for the trapping of H_2^+ and Be^+ ions in Paul's radio frequency trap"

Completed project

2017 Third place in the "CHALLENGE AERO_SACLAY" competition with a project of an airport of the future that would work uniquely with photovoltaic energy.