

Baptiste Amiot

Photovoltaic Expert

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Driver license



Education

- 2019–2023 **PhD Thesis, Applied Energy & Thermal Sciences**, *University of Lyon 1*, Lyon, France.
Floating Photovoltaics, System Modelling, Environmental Fluid Mechanics, Computational Fluid Dynamics
- 2018–2019 **Master of Sciences, Marine Renewable Energy**, *University of Heriot-Watt*, Stromness, Scotland.
- 2017–2019 **Engineering Degree, Thermal & Energy Sciences**, *University of Nantes - Polytech School*, Nantes, France.
- 2016–2017 **Two-year Diploma, Measurements & Physics**, *University of Paris XI - IUT Orsay*, Orsay, France.

Skills and Certificates

Programming [PVNOV](#), Python, Julia; [Modelica](#); \LaTeX ; Languages French (native), English (good command, TOEIC 885), 日本語 (日本語能力試験-N4)

[code_saturne](#); [SALOME](#); MS Office, VBA

Profesional Experience

CEREA - Centre d'Enseignement et de Recherche en Environnement Atmosphérique - Ecole nationale des ponts et chaussées, Chatou

- Feb. 2023 — **Modelling Atmosphere-Ground Interactions in the context of Photovoltaic Arrays**, *Post-doctoral fellowship*.
- Mar. 2025 Implementing photovoltaic assets at the utility scale in a micro-meteorological simulation software using a parcimonious approach.
- Advisor : **Dr. Martin FERRAND**, *Deputy Director, Centre d'Enseignement et de Recherche en Environnement Atmosphérique*, Ecole nationale des ponts et chaussées ([Researchgate](#))

EDF R&D - Electricite de France R&D & **CETHIL** - Centre d'Énergétique et de Thermique de Lyon

- Nov. 2019 — **Thesis : Thermal Modelling of Floating Solar Arrays**, *Research Engineer - PhD Candidate*.
- Jan. 2023 Developing a multiscale approach to determine the role of photovoltaic array layouts on thermal performances; determining key parameters for the environmental cooling effect in floating photovoltaic applications (experiment and simulation-based).
- Advisor : **Pr. Stéphanie GIROUX-JULIEN**, *Prof., Civil Engineering & Sustainable Building Dpt.*, Lyon 1 Univ. ([Researchgate](#))
- [3-D Energy](#)

Apr 2019 — **Solar Asset Manager**, *Intern*.

Sept. 2019 Monitoring electricity production of more than two thousand solar parks displayed at the country level (France). Identify root causes for production losses and scheduling maintenance operations (multiplayers).

Teaching

IUT D'Orsay - Paris-Saclay University

- Nov 2023 — **Teaching Assistant**.
- Present Support of student field work and laboratory experiments for the characterisation of PV modules.

Principal Publications

Journal Article

- 2024 **Amiot, B., Pabiou, H. & Le Berre, R. & Giroux-Julien, S.**, An innovative method for measuring the convective cooling of photovoltaic modules, *Solar Energy*, <https://doi.org/10.1016/j.solener.2024.112531>.

Intellectual Property

- 2024 **Amiot, B., Le Berre, R. & Giroux-Julien, S., Pabiou H.**, Procédé de détermination d'une densité de flux thermique convectif en face avant d'un module, *Bulletin officiel de la propriété industrielle N°24/01*, January, <https://data.inpi.fr/brevets/FR3137449?q=FR2206651#FR3137449>.