

GOLLINO LIAM

WORK EXPERIENCES

07/10/2019



- **Thesis at Ecole Nationale Supérieure de Chimie de Paris (ENSCP) – CNRS under the direction of Dr. Thierry PAUPORTE**
New Hybrid Perovskites for Photovoltaic Solar Cells
Design of new efficient lead-deficient perovskites (d-HPs) and lead-free perovskites (iodo-bismuthate and iodo-antimonate)
Preparation of the new perovskites as thin films from solution and formulation/synthesis optimization
Definition of the selective contacts for efficient charge extraction
Characterisation by spectrophotometry, photoluminescence, XRD, SEM, EDX, AFM, impedance spectroscopy
Aging measurements on layers and devices

04/2019 – 09-2019



- **INSTITUT NATIONAL DE L'ÉNERGIE SOLAIRE (CEA-INES) – Le Bourget du Lac (France)**
Internship under the direction of Dr. Noëlla LEMAITRE
Preparation and optimization of perovskite solar cells for future tandem integration (Si/Perovskite)
Optical and electrical characterisations of cells
Analysis and data processing
Help on Silicon solar cells ' project for future tandem integration

07/2018 – 11/2018



- **CENTER FOR ENERGY AND ENVIRONMENTAL CHEMISTRY (CEEC) – Jéna (Allemagne)**
Internship in Pr. Harald HOPPE's group
Preparation and optimization of organic solar cells
Optical and electrical characterisations of cells
Analysis and data processing
Writing of scientific reports and experimental plannings

2017-2018

- **PRIVATE TUTOR FOR SECONDARY AND HIGH SCHOOL STUDENT (MATHS, PHYSICS/CHEMISTRY, ENGLISH)**

2016-2017

- **ONE-YEAR RESEARCH AND INNOVATION PROJECT CALLED: HEAT (HEATER BY ENERGY ABSORPTION AND TRANSFER) - ENSCBP**
Team leader of a 6-person team
Management of a budget of 2000€
In charge of the management and organization of the project, ordering experiment products
Realization of experiments

FORMATIONS

2016-2019

- **Graduate School of Chemistry, Biology and Physics (ENSCBP)– Bordeaux (France)**
Degree of Engineer in Chemistry and Physical Engineering (Master degree Equivalent)

2014-2016

- **Two-year intensive undergraduate studies at the Preparatory Class of Bordeaux (CPBx)**
General knowledge in Chemistry and Physics

2011-2014

- **LYCÉE SUD MÉDOC – Le Taillan-Médoc (France)**
French High School diploma: SSVT specialization Physics/Chemistry (equivalent to GCE « A » levels)



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Driving license

LANGUAGES

FRENCH: Mother tongue

ENGLISH: C1 level (Official score of 970/990 at TOEIC)

SPANISH: Notions

SKILLS

Preparation and optimization of BHJ organic solar cells and perovskite solar cells

Optical and electrical characterisations (JV, EQE, EL, PL, RT, Impedance spectroscopy)

Spectroscopy (NMR, UV-Visible, IR, Raman, XRD, AFM, SEM)

Analysis (TDA, TGA, Diffusion)

Microsoft Office mastery (Word, Powerpoint, Excel) and OriginPro

Make a detailed bibliographic research

Writing of protocols, scientific reports, experimental plannings

Presentation of scientific results

HOBBIES

Music

Running

Climbing

American Pool