



EDUCATION

2018 – 2019

ÉCOLE POLYTECHNIQUE MASTERS DEGREE Paris

Fluid Mechanics

Animal locomotion, drops & bubbles, multi-scale hydrodynamics, aerodynamics, low-Reynolds Number flows | Double degree program in english, focused on current research themes

2015 – 2019

ÉCOLE DES PONTS ENGINEERING DEGREE Paris

Gap Year – 2018

1° sem. Visiting student @MIT

2° sem. COO & co-funder @WINDmyROOF

Mechanical & Material Engineering – 2017

Introduction to fluid mechanics, project management, energy production, law, statistics | Specialization year on energy and transport topics

Common Curriculum – 2016

Advanced mathematics, introduction to economics, mechanics and research | Common first year of engineering school

2013 – 2015

LYCÉE HENRI-POINCARÉ PREPARATORY CLASSES Nancy

Mathematics, physics and engineering sciences (PCSI - PSI)* | Two-years training for entrance exam into French engineering schools

EXPERIENCE

2020 – 6 months

IMSIA LABORATORY RESEARCH INTERN Paris

Master thesis @IMSIA laboratory (ENSTA Paris)

Understanding amplitude modulation in wind turbine stall noise

Is it possible to predict and reduce the noise pollution experienced by residents near wind farms ?

2019 – 6 months

PMMH LABORATORY RESEARCH INTERN Paris

Research internship @Physique et Mécanique des Milieux Hétérogènes laboratory (ESPCI)

Bio-inspired algae for wave energy harvesting and costal preservation

How to optimize the spacing of elastic pillar subjects to waves, in order to collect as much energy as possible from the flow ?

2017 – 2020

WIND MY ROOF COO & CO-FUNDER Paris

Start-up building : design, production and distribution of an innovative roof-mounted wind-turbine (www.windmyroof.com).

Winner Prix de l'innovation VINCI 2017 - Student challenge

Winner Challenges Citoyens CGI 2018 - Environment & Energy challenge

Finalist Grand Prix de l'Académie des Technologies 2018 - Tech start-up challenge

Fund raising

100k€ French Public Investment Bank (BPI)

500k€ Inner'biz (VINCI) and Climate-KIC (European Union)

2017 – 6 months

MASSACHUSETTS INSTITUTE OF TECHNOLOGY VISITING STUDENT RESEARCHER Boston

Research internship @Fluid Dynamics of Disease Transmission laboratory (Civil Engineering & Environment department)

Soil pathogens transport by the rain : droplet impacts on granular media

How far can a falling rain droplet eject soil grains that are potentially infected with bacteria ?
Does micro-organisms redevelop after their transport ?

PROJECTS

2018

LADHYX LABORATORY Paris

Hydrophobic Leidenfrost Solids

Why is a dry-ice block sliding on a metal bar, from the hot side to the colder side ?

2017

ÉCOLE DES PONTS Paris

Optimization & design of a roof-mounted Savonius-type wind turbine

How to harvest wind energy in urban and peri-urban areas ?

2016

ÉCOLE DES PONTS Paris

Rock damages dues to salt crystallization

How to protect buildings and monuments from salt damages in costal areas ?

SERVICE

2018 – 2019

MAISON DES MINES ET DES PONTS ET CHAUSSÉES HOUSING MANAGER Paris

In charge of room allocation and communication between the administrative team, the École des Ponts and the students housed at residence Maison des Mines rue Saint-Jacques in Paris (100 people)

2017 – 2019

RÉSEAU ÉTUDES SUPÉRIEURES ET ORIENTATION DES MIGRANT.E.S VOLUNTEER Paris

The RESOME brings together students, staff and university professors who volunteer to help students in exile resume their studies in France

2015 – 2017

ÉCOLE DES PONTS VOLUNTEER STUDENT Paris

Programme Étudiants Réfugiés – Funder & coordinator

Return to study program open to 10 (25 today) refugee and asylum-seeking students at École des Ponts with the help of the language department: French as a Foreign Language courses, refresher courses in mathematics and computer science

Ponts Safe Place – Volunteer

Association for debate and awareness on gender issues

2011-2016 – 5 years

HOSPITALITÉ DE METZ BRANCARDIER Lourdes

Support for sick and disabled people for two weeks in summer: grooming, bathing, walks, daily entertainment

LANGUAGE

ENGLISH

Full professional proficiency

GERMAN

Professional working proficiency – Baccalauréat « euro German »