



## Nicolas PLAIN

Climate Change & Access to energy in Africa with renewable energy  
Scientist | PhD Candidate | TEDx speaker | Movie Director

[www.nicolasplain.fr](http://www.nicolasplain.fr)

[contact@nicolasplain.fr](mailto:contact@nicolasplain.fr) +33(0)6.45.36.38.48



### WORKING AND CONSULTING EXPERIENCES - [Linkedin](#)

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- Mar17-Today* **SCHNEIDER ELECTRIC**, Paris - Grenoble, France  
*PhD Candidate in the Access to Electricity and Emerging Technologies teams*
- Creation of computer models to optimize microgrid configurations (costs and quality of service)
  - Leading a new development program on blockchain for access to electricity in Africa
  - Helping to define Schneider Electric's strategy for access to electricity
  - Study of new emerging technologies interesting for this market
- Sept18-Today* **INNOVATOR & SPEAKER**
- Innovation award for the first conference of the SIDE Africa – Bénin 2018
  - TEDx Speaker on "how Blockchain technology will promote access to renewable electricity in the world"
- May18-Today* **SOLAR IMPULSE FOUNDATION – WORLD ALLIANCE FOR EFFICIENT SOLUTIONS**  
*Advisory Expert*
- Creation of computer models to optimize microgrid configurations (costs and quality of service)
  - Advising the World Alliance in the process of obtaining 1000 efficient & profitable solutions
  - Areas of expertise: Access to electricity in Africa with renewable energy ; Blockchain technology for energy sector
- Aug17-Mar17* **COP21 TASK FORCE - OFFICE OF THE MINISTER OF THE ENVIRONNEMENT SEGOLENE ROYAL**  
*Mission leader*
- Contributing to the strategy of the post COP21 under the French Presidency to prepare COP22 and other international meetings
  - Proposing strategic orientations and writing keynote speeches for the French Minister of Environment, Energy and the Sea
  - Thinking the specific role of cooperative action to speed up the efforts to address climate change
  - Building a network among climate and energy international cooperative initiatives, in the sectors of transport and short-lived climate pollutants, with different stakeholders (mainly governments, private sector, cities and subnational entities, NGOs and finance organizations)
- Jui13-Sept13* **THE BOSTON CONSULTING GROUP**, Casablanca, Morocco  
*Visiting associate*
- Environmental issues related to fertilizer use in sub-Saharan Africa
  - Teaching materials for better use of fertilizers by local farmers
  - Detailed market analysis
  - Participation in meetings with the client
- Sep12-Dec12* **WHIBO**, Paris, France (Software Start-up)
- Coordination of a team of 5 polytechnicians for a consulting mission
  - Development of a strategy to optimize the commercial offer and the differentiation
- Sep11-Avr 12* **FIGHTER PILOT SCHOOL**, air-base of Tours, France  
*Officer of the French Air Force*
- Direction of a consulting mission in order to optimize and follow-up the training of pilots
  - Development and implementation of a benchmark between all French air bases
  - Implementation of solutions

### SCHOOLING

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- 2015-2016* **UNIVERSITE GRENOBLE ALPES**, Grenoble, France  
Second year of Research Master in Renewable Energy and Climate Science and Environment: microgrids in developing countries, physics and chemistry of the atmosphere, climate and anthropogenic impact, geophysical fluid dynamics
- 2014-2015* **ECOLE NATIONALE DES PONTS ET CHAUSSEES**, Paris, France  
Second year of Master in Environment and Civil Engineering and Construction
- Apr14-Aug14* **UNIVERSITY OF CALIFORNIA BERKELEY**, Berkeley, California, United States  
Department of « Civil and **Environmental Engineering** » and « Computer Science »
- 2011- 2014* **ECOLE POLYTECHNIQUE**, Paris, France  
First year of a Master's program in Climate and Environmental Science (**GPA: 4.1, ranking 26/500**)
- Third year: Specialization in Climate and Environmental Sciences: Lessons that include Geophysics, Environmental Economics, Hydrodynamics, Meteorology and Economic Analysis of the Energy Sector
  - Second year: specialization in engineering sciences: courses that include Mechanics, Fluid Mechanics, Mathematics, Applied Mathematics, Physics, Biology, Microeconomics and Macroeconomics

## RESEARCH – [HAL](#) & [Google scholar](#) accounts

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<i>Mar17-Today</i>	<b>SCHNEIDER ELECTRIC, IGE, GAEL</b> , Grenoble, France <ul style="list-style-type: none"><li>▪ PhD Candidate   Rural electrification in Africa with isolated and renewable microgrids</li><li>▪ Taking into account the temporal variability of the solar resource and the load curves to optimize typical configurations of microgrids (production, storage, back-up)</li><li>▪ Analysis of the effects of different mechanisms on supply and demand</li><li>▪ Publication of different research article on this topic (see google scholar account)</li></ul>
<i>Feb16-Jui16</i>	<b>EDF</b> , General Technical Direction, Grenoble, France <ul style="list-style-type: none"><li>▪ Statistical study of climatic variability in hydrological and climatic models</li><li>▪ Influence of climate indices on meteorological variables</li></ul>
<i>Feb15-Jui15</i>	<b>METEO FRANCE</b> , Snow Study Center, Grenoble, France <ul style="list-style-type: none"><li>▪ Research program in snow transport by wind and effects on avalanche risk</li><li>▪ Use of meteorological models at a very small spatial and temporal scale</li></ul>
<i>Apr14-Aug14</i>	<b>UNIVERSITY OF CALIFORNIA BERKELEY</b> , Berkeley, California, United States Department of « Civil and <b>Environmental Engineering</b> » and « Computer Science » <ul style="list-style-type: none"><li>▪ Development of modeling methods for the measurement of water quality for Lagrangian sensors</li><li>▪ Study of the influence of meteorological variables on the propagation of a possible pollution</li></ul>
<i>2013</i>	<b>ECOLE POLYTECHNIQUE</b> , Paris, France <ul style="list-style-type: none"><li>▪ Program of research in dynamics of the climate system</li><li>▪ Research program on porous media, flow and mechanics, application to the water and geological resource</li></ul>
<i>2009-2011</i>	<b>LYCEE CHAMPOLLION</b> , PCSI-PC*, Grenoble, France <ul style="list-style-type: none"><li>▪ Two years of research project on biofuels: test of different ratios of ethanol engine two times</li></ul>

## SKILLS

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<i>Language</i>	English : fluent (945 TOEIC) Spanish : moderate
<i>Computer</i>	Expert in R, Python, Matlab, Pack Office ; Adobe suite (premiere)

## INTERETS ET ENGAGEMENTS

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<i>2018-2019</i>	<b>Host and Author for a 52' scientific documentary for the French National TV</b> Cross the Alps by paragliding without any emission of CO2, to show the already perceptible effects of climate change on one of the most sensitive territories in the world and the existing concrete and local solutions
<i>2017-Today</i>	<b>Paragliding and Paramotoring</b> <ul style="list-style-type: none"><li>▪ Member and Manager of the Icaro Team Pilot in France (a paragliding brand)</li><li>▪ Paramotor instructor and tandem paragliding</li><li>▪ 7<sup>th</sup> at the French national championship of acrobatic paragliding</li></ul>
<i>2015-Today</i>	<b>President and Founder of the "Fly for the Earth" Nonprofit Organisation</b> <a href="http://www.enlairpourlaterre.fr">www.enlairpourlaterre.fr</a> <ul style="list-style-type: none"><li>▪ Popularization of research in climate sciences and renewable energies</li><li>▪ Achievements of short, simple and impressive interviews of researchers and specialists during tandem paragliding flights</li><li>▪ Cycle of conferences / awareness in private companies in sustainable development, environment and security</li></ul>