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# Vincent Lemaire

PhD.



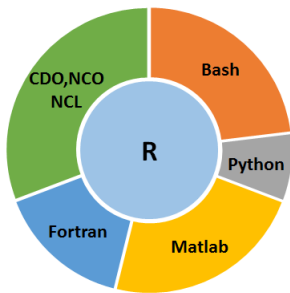
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## Experiences

10/14 - 19/17 **PhD in climate sciences** [INERIS/LMD – Ecole Polytechnique](#)  
Title : Hierarchisation des déterminants de la composition atmosphérique future en Europe  
Supervisor : Augustin Colette (INERIS) & Laurent Menut (LMD).  
Skills : Study of the climate and reduction emissions impacts on air quality over Europe, ensemble use (EuroCordex), chemistry and transport modelisation (WRF, CHIMERE), statistical approaches (meta-models), programmation (R, bash, Fortran, Python, Latex), visualization (SIG, plotly, shiny).

## Programming



03/14 - 08/14 **Internship - Master 2** [INERIS](#)  
Study of the climate impact on air quality over Europe.  
Post-treatment of large regional climate and air quality simulations.  
Supervisor : Augustin Colette (INERIS).

04/13 - 06/13 **Internship - Master 1** [Hôpital Mignot](#)  
Prevention of the infectious risks unit lead by Dr Merrer  
Microbiological analysis on endoscopes in order to improve their storage.

02/12 - 06/12 **Intern on a regular basis in 3rd year of bachelor** [LATMOS](#)  
Team PAMPRE lead by Nathalie Carrasco  
Experimental simulation of Titan atmosphere : experimental manipulation and numerical data treatment.

## Languages

French ★★★★★  
English ★★★★★  
German ★★★★★

## Education

08/16 - 09/16 **HPC summer school** [University of Aquila](#)  
1 week of practical and theoretical sessions : HPC, parallel programming, cloud services, ESMF and adjoint modelling.

2012 - 2014 **Master label KIC-Climate** [European Institute of Innovation & Technology](#)  
Cycles of conferences, lessons and 5 weeks summer school on entrepreneurship and innovation to fight climate change.

2012 - 2014 **Master** [University of Versailles Saint Quentin en Yvelines](#)  
M1 : Environnemental Sciences – Hélène Brogniez .  
M2 : Air quality and noise mitigation – Philippe Bousquet.  
Teaching : chemistry and physics of the environment, air pollution, climate, programming, statistics.

## Personnal skill



## Spare-time



## Actions

- 2017 - Now **Ma Thèse en 180 s.** [Paris Saclay university](#)  
Take part of the science popularization competition "ma Thèse en 180 s".
- 2016 - 2017 **Science popularization** [Provins, Savigny-le-Temple](#)  
Conferences on climate and air quality links at "Forum de Provins" for the risks and for "conference l'Air : l'Expo qui Inspire".
- 2015 - 2017 **Dock'IN** [INERIS](#)  
Co-founder of phd club at INERIS.
- 2015 - 2016 **Jeunes Reporters pour l'Environnement** [France](#)  
Take part into the JRE national contest, video reportage on light pollution and la réserve de ciel étoilé du pic du Midi.
- 2015 & 2016 **Pint Of Science** [Paris](#)  
Take part in the organisation of the thematic Planet-Earth for the science festival PoS.
- 2014 - 2016 **Climate KIC Alumni Association** [Paris](#)  
Take part into events organisation for the Paris alumni  
Conference organisation for COY11 (Youth Conference Of Climate).

## Publications

Lemaire, V. E. P., Colette, A., and Menut, L.: Using statistical models to explore ensemble uncertainty in climate impact studies: the example of air pollution in Europe, *Atmos. Chem. Phys.*, 16, 2559-2574, doi:10.5194/acp-16-2559-2016, 2016.

Lemaire, V. E. P., Colette, A., and Menut, L.: Impact of the vertical resolution of climate inputs on air quality modelling, in prep.

Lemaire, V. E. P., Colette, A., and Menut, L.: Nouvelle méthode d'exploration d'ensemble : l'impact du climat sur la qualité de l'air en Europe, JIQA2017, oral.

Lemaire, V. E. P., Colette, A., and Menut, L.: Smart climate ensemble exploring approaches: the example of climate impacts on air pollution in Europe, EGU2016, poster.