

# Loïc Gonzalez Carracedo

PhD Graduate Student in Environmental and Aerosol Physics

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25 years



## Employment Experience

- May 2018 - Today **PhD Graduate Student in Aerosol and Environmental Physics**, *Universität Wien*, Vienna.  
PhD Graduate Student in Environmental and Aerosol Physics
- April 2016-September 2016 **Master degree internship**, *IRCE LYON*, University Claude Bernard Lyon 1, Villeurbanne.  
Chemical characterization of the organic fraction of the marine aerosol in the sub-micrometric fraction by HPLC-MS et GC-MS.
- September 2015-March 2016 **Master degree Project**, *University Claude Bernard Lyon 1*, Villeurbanne.  
Air Quality and noise pollution study of the underground car park P0 of Lyon Saint-Éxupéry airport.
- July 2015 **Master Intership**, *CERN*, Geneva.  
Establishment of a luminosity model in order to optimize the rate of events inside the Atlas detector with Matlab.
- July 2010 **Internship**, *CERN*, Geneva.  
Writing a report on the superconducting dipoles state of the PS and the storages state on the Prévessin site of the CERN.

## Curriculum

- 2016–2017 **INTI Formation**, *ADAMING*, Lyon, *Diploma training in JAVA EE programming*, Master Degree level.
- 2015–2016 **Master Of Science EAR (Environment, Atmosphere and Radioprotection (Rank 4/20))**, *University Claude Bernard Lyon 1*, Villeurbanne, *Bac+5*.
- 2015–2014 **Master's Degree Physical-Chemistry**, *University Claude Bernard Lyon 1*, Villeurbanne, *Bac+4*.
- 2010–2014 **Bachelor of Science in Physics and Chemistry**, *Faculté des sciences*, Villeurbanne, Three years university degree.
- 2010 **French high-school diploma Scientific option Engineer Science**, *Lycée Saint-Éxupéry*, Bellegarde sur Valserine.

## Knowledge/Skills

- Skills** Measurement on LIDAR, Measurement of Tritium in Rhône Water, Measurement and Control of Radioactive Dose, Measurement and Mapping of Noise on the Doua Campus with SoundPlan Software, Use for Atmospheric Gaussian Software Modeling (ADMS) and Lagrangian (SLAM), DMA-train for precision measurement of sub-10nm aerosol dynamics
- Experimental Technical Chemistry; NMR Measures and analysis, Liquid and Gas Chromatography (HPLC-MS and GC-MS); Measurements of atmospheric pollutants on RADIELLO tubes; Extraction on teflon filters of organic compounds (amino acids, fatty acids ...)
- Knowledge** Thermodynamics, Electromagnetism, Fluid mechanics, Atmospheric physics, Acoustic physics, Laser remote sensing of aerosols and pollutants, Aerosol Physics, Microscopic physics and relativity, Mechanics
- Organic / inorganic chemistry, Atmospheric chemistry, Mass spectrometry and NMR, liquid and gas chromatography, Chemistry of combustion, General chemistry
- C++/C/Java Languages, SQL, Modelization, Office Tools (Microsoft Office, LateX), Fluka(radioprotection), Geant4, SoundPlan, ADMS, SLAM

## Interests

- Languages** French(mother tongue), English(good level), Spanish(good level).
- Sports** Football, Sky, Rugby
- Event** Forum Entreprise (2014), Steering Comittee

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## References

**Paul Winkler**, *Aerosol Physics and Environmental Physics* - Universität Wien, Vienna, paul.winkler@univie.ac.at.

Associated Professor. Deputy Group Speaker of Aerosol Physics and Environmental Physics

**Alain Miffre**, *ILM-UCBL*, Villeurbanne, alain.miffre@univ-lyon1.fr.

Lecturer. Director of the Optics, Environment and Remote Sensing (OET) research group in the ILM laboratory at Claude Bernard University. Co-director of the EAR Master.

**Barbara d'Anna**, *IRCE LYON*, Villeurbanne, barbara.danna@ircelyon.univ-lyon1.fr.

Director of Research-CNRS.

**Yannis Papaphilippou**, *CERN*, Genève, ioannis.papaphilippou@cern.ch.

phD. Team Leader in CERN's Beam Division (BE).