

# Fernand LOUISNARD

Laboratoire de Chimie et Physique Quantiques	<b>Date of birth</b>	7 <sup>th</sup> October 1994
IRSAMC, Université Paul Sabatier	<b>Nationality</b>	French
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## PhD Student at the Laboratoire de Chimie et Physique Quantique Paul-Sabatier University, Toulouse (FRANCE)

### EDUCATION

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**Ph.D in Theoretical chemistry** *October 2018 - October 2021*  
Paul Sabatier University, LCPQ, Toulouse, FRANCE.  
*« Exploration of energetic landscapes and nuclear quantum effects :  
A Parallel-Tempering Path-Integral Molecular Dynamics approach »*  
Director : Aude Simon  
Co-director : Jérôme Cuny  
Team director : Mathias Rapacioli  
Laboratory director : Thierry Leininger

**Master 2 in Theoretical chemistry and computational modelling** *September 2017 - July 2018*  
TCCM ERASMUS Mundus Master, Valencia, SPAIN.

**Master 1 in Theoretical chemistry and modelling** *September 2016 - June 2017*  
Paul Sabatier University, Toulouse, FRANCE.

**Bachelor in chemistry « Parcours spéciaux »** *September 2012 - June 2015*  
Paul Sabatier University, Toulouse, FRANCE.

### TRAINING

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**2<sup>nd</sup> year Master training** *February 2018 - June 2018*  
University of Valencia, ICMOL, Valencia, SPAIN.  
*« Excited-state intermolecular processes : Improving CASSCF and its  
applications. »*  
Supervisor : Daniel Roca-Sanjuán

**1<sup>st</sup> year Master training** *April 2017 - June 2017*  
Paul-Sabatier University , LCPQ, Toulouse, FRANCE.  
*« Modelisation of Water clusters containing ammoniac and ammonium. »*  
Supervisor : Jérôme Cuny

**3<sup>rd</sup> year bachelor training** *February 2015 - July 2015*  
Humboldt Universität, HechtLab, Berlin, GERMANY.  
*« Synthesis of a photo-regulator of pH derivated from indigo. »*  
Supervisor : Stefan Hecht

## ORAL COMMUNICATIONS

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*MPI implementation of the Parallel-Tempering Molecular Dynamics (PTMD) approach in deMon2k.*  
**F. Louisnard**, J. Cuny  
*19<sup>th</sup> deMon developers Workshop, Fréjus (FRANCE), May 2019*

## TEACHING

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<b>Atomistic</b> 2 <sup>nd</sup> year of bachelor « Parcours spéciaux » (5 hours)	<i>2018 - 2019</i>
<b>Thermodynamic and Kinetic practical classes</b> 3 <sup>rd</sup> year of bachelor (20 hours)	<i>2018 - 2019</i>
<b>Structure and reactivity</b> 3 <sup>rd</sup> year of bachelor (14 hours)	<i>2018 - 2019</i>
<b>Physics S2</b> Rebondir (27 hours)	<i>2018 - 2019</i>
<b>TCCM Winter School</b> School for advanced sciences of Luchon, Luchon-Superbagnères, FRANCE	<i>February 2019</i>

## SCIENTIFIC SKILLS

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Parallel programming with MPI.

## EXTRA-CURRICULAR

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Scout Leader at the EEDF (Laic Scout of France) since 2013.