

## Education

---

- 2013-16     **PhD supervised by Fabien Casse & Andrea Goldwurm on**  
*Numerical simulations of wind accretion onto compact bodies*  
AstroParticule & Cosmology laboratory (APC) – Univ. of Paris 7 Diderot
- 2012-13     **Master degree in Astrophysics** – Observatory of Paris  
Obtained with distinction
- 2010-12     **Normalien at the *Ecole Normale Supérieure* of Cachan**
- 2011-12     **Research internship and graduate courses** – MIT, Cambridge
- 2010-11     **French *Agrégation* of Physics & Chemistry** – ENS of Cachan, FR  
Rank : 2<sup>nd</sup> in 1,409 candidates
- 2008-10     **Bachelor degree in Fundamental Physics** – ENS / Paris 6 University  
Obtained with honours
- 2006-08     **Preparatory classes to *Grandes Ecoles*** – Lycée Janson-de-Sailly, Paris

## Research

---

- Since 2016     **FWO [Pegasus]<sup>2</sup> Marie Skłodowska-Curie fellowship**  
**under the supervision of Rony Keppens**  
Center for mathematical Plasma Astrophysics – KU Leuven
- 2013-16     **PhD thesis supervised by Fabien Casse & Andrea Goldwurm on**  
*Numerical simulations of wind accretion onto compact bodies*  
APC – Univ. of Paris 7 Diderot
- 2011-12     **One-year internship supervised by Saul Rappaport on**  
*Monitoring of close-in binary stars and short period exoplanets*  
Data analysis and models of light curves from the Kepler satellite  
Kavli Institute for Astrophysics – MIT
- Ap-Ag 2010     **Internship supervised by Jean-François Lestrade on**  
*Gravitational perturbations of debris discs by a passing-by star*  
LERMA – Paris Observatory
- Jn-Jl 2009     **Internship supervised by Gérard Belmont & Patrick Robert on**  
*Resampling of the CLUSTER satellites data*  
Plasma Physics Laboratory – Vélizy

## Communication

---

### Oral contributions

Dc 2017	Radboud University Nijmegen – seminar
Nv 2017	ESAC Madrid – seminar
Sp 2017	Observatory of Paris – seminar
Sp 2017	KU Leuven – Frontiers of Astrophysical Modeling
Ag 2017	Köln – Numerical techniques in MHD simulations
Jl 2017	Paris – Journées de la SF2A
Mr 2017	Brussels Royal Observatory – CHARM meeting
Fb 2017	Stellar winds in massive X-ray binaries – ISSI workshop
Sp 2016	Arbatax – Super-Eddington accretion on compact objects
Sp 2016	Aarhus University – seminar
My 2016	Ecole des Houches – International school of Computational Astrophysics
Ap 2016	Paris 7 University – seminar
Ap 2016	KU Leuven – seminar
Oc 2015	AIM laboratory (CEA, Paris) – Computational Astrophysics meeting
Jn 2015	Toulouse – Journées de la SF2A
Mr 2015	Ecole des Houches – Turbulence, magnetic fields and self organization

### Posters

Jn 2017	<b>Clumpy wind accretion in Supergiant X-ray binaries</b> EWASS – Prague
Dc 2015	<b>Numerical simulations of wind accretion onto compact objects</b> Texas symposium – Geneva
Nv 2014	<b>Numerical simulations of wind accretion undergoing flip-flop instability</b> IAP – Paris

## Grants & awards

---

2017	Computing time on the Tier-1 VSC cluster : 1 Mh-CPU
2016	3-years FWO [Pegasus] <sup>2</sup> Marie Skłodowska-Curie fellowship
2016	Computing time on the Tier-1 CINES cluster : 300 kh-CPU
2015	Computing time on the Tier-1 CINES cluster : 300 kh-CPU
2013	3-years PhD fellowship from the Ecole Normale Supérieure of Cachan
2013	3-years teaching assistant grant from the Université of Paris 7 Diderot
2012	1-week observing time at the Mont Mégantic Observatory (Canada)
2011	French <i>Agrégation</i> of Physics and Chemistry – Rank : 2 <sup>nd</sup> / 1,409
2010	2-years fellowship from the ENS of Cachan as a <i>normalien</i>

## Selected skills

---

### Programming languages

Fortran, C, C++, Python, Idl, Java, Perl, XML, Csh, Bash, HTML, CSS, JavaScript, CoffeeScript, HTML5

### Codes & softwares

MPI-AMRVAC, Mathematica, VisIt, Paraview, Vampir, VampirTrace, Atom, Emacs, Pyke, Inkscape, Gnuplot, DS9, XSPEC

### Data analysis

Extended Fourier and wavelet analysis, resampling and interpolation of time/space series

### Languages

French (native), English (fluent), Italian (B1)