

CURRICULUM VITAE

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Current position

CNRS Research engineer

Feb/2020 - now CNRS/Laboratoire de Physique de Clermont Auvergne (LPCA)
Université Clermont-Auvergne (UCA), Clermont Ferrand - France

Research experience

Post-Doctoral researcher

Jan/2016 - Jan/2020 Laboratoire de Physique de Clermont (LPC)
Université Clermont-Auvergne (UCA), Clermont Ferrand - France
Jan/2014 - Dec/2015 Max Planck Institute for Astrophysics (MPA), Germany
Sep/2011 - Dec/2013 University of São Paulo (USP), Brazil
Sep/2010 - Aug/2011 Kavli - IPMU
The Institute for the Physics and Mathematics of the Universe, Japan

Education

Sep/2023 **HDR** (Habilitation a Diriger des Recherches), UCA, Clermont Ferrand, France
Mar/2006 - Mar/2010 **PhD** in Physics (Cosmology), UFRJ, Rio de Janeiro, Brazil
Sep/2008 - Aug/2009 - **Exchange PhD student** at UCL, London, UK
Mar/2004 - Feb/2006 **Master** in Sciences (Physics), UFRJ, Rio de Janeiro, Brazil
Mar/1999 - Dec/2003 **Bachelor in Physics**, Universidade Estadual de Campinas - Brazil

Management experience

LPC obligations

Mar/2018 - now Organizer and lecturer : ML@Cezeaux
Mar/2018 - now Organizer : LPC Institute seminar

LSST Dark Energy Science Collaboration duties

Apr/2019 - now Project lead : RESSPECT
REcommendation System for SPECTroscopic follow-up
an official collaboration between LSST-DESC and the Cosmostatistics Initiative
Oct/2018 - Oct/2022 LSST-DESC Collaboration Council member
Dec/2016 - Jan/2019 Photometric LSST Astronomical Time-series Classification Challenge

PLAsTiCC core team

Founding member and science coordinator

Apr/2018 - now Fink - community broker for LSST

Founding member and French logistic manager

Jun/2018 - now The SNAD collaboration - incorporating expert knowledge in smart anomaly detection for astronomical big data

Founding member, logistic manager and leader of Python projects

Apr/2014 - now The Cosmostatistics Initiative (COIN)

Participation in Organizing Committees for International events

* *main organizer*

13-18/May/2024	*Seventh SNAD Collaboration meeting, Brazil
06-10/May/2024	*Fink-Brazil Workshop, Brazil
22-26/Jan/2024	*AISSAI Anomaly Detection workshop, France
09-16/Sep/2023	*Seventh COIN Residence Program, Portugal
03-07/Jul/2023	AISSAI Hackathon, France
02-09/Jul/2023	*Sixth SNAD collaboration meeting, Turkey
03-05/May/2023	OzFink Workshop, Australia
19-26/Nov/2022	*First Fink Hackathon, Switzerland
04-11/Sep/2022	COIN-Focus # 2 - SPICY*, France
03-10/Jul/2022	*Fifth SNAD collaboration meeting, France
19-20/May/2022	First Fink Collaboration meeting, France
17-24/Oct/2021	*Fourth SNAD collaboration meeting, France
07-19/Jun/2021	Statistical Challenges of Modern Astronomy VII, USA
27-28/Oct/2020	LSSTC enabling science 2020 broker workshop, <i>online</i>
06-10/Jul/2020	Third SNAD collaboration meeting, <i>online</i>
16-20/Mar/2020	*COIN-Focus #3 - RESSPECT, <i>online</i>
28/Jan/2020	Fink Workshop, France
23-30/Nov/2019	*COIN-Focus #2 - Toliman, Italy
24-31/Aug/2019	*Sixth COIN Residence Program, France
26-29/Jul/2019	ESO Workshop on Artificial Intelligence in Astronomy, Germany
11-12/Jul/2019	*Optimizing training samples for SN photometric classification, France
08-10/Jul/2019	*COIN-Focus # 1 - RESSPECT, France
11-18/May/2019	*Second SNAD collaboration meeting, France
01-08/Oct/2018	Journées Informatique de l'IN2P3-IRFU, France
15-22/Sep/2018	Fifth COIN Residence Program*, Greece
04-08/Jun/2018	First SNAD Collaboration meeting, Russia
20-22/May/2018	Astronomical Data Analysis Summer School IX, Spain
20-27/Aug/2017	*Fourth COIN Residence Program, France
06-30/Jun/2017	European Week of Astronomy and Space Science 2017 Symposium 14, Czech Republic Astroinformatics : From Big Data to Understanding the Universe at Large

21-28/Aug/2016 *Third COIN Residence Program, Hungary
22-24/May/2016 Astronomical Data Analysis Summer School VIII, Greece
18-25/Oct/2015 *Second COIN Residence Program, UK
17-24/Aug/2014 *First COIN Summer Residence Program, Portugal

Mentoring experience

Participation in Phd Thesis Jury

27/Nov/2023 Benjamin Remy, Universite Paris-Saclay, France
Thesis title : *Generative modeling for weak lensing inverse problems*
Supervisor : Jean-Luc Starck and François Lanusse

17/Oct/2023 Anass Bairouk, Universite de Montpellier, France
Thesis title : *Astronomical Image Time-series Classification Using Deep Learning*
Supervisor : Marc Chaumont

16/Oct/2020 Maxime Paillassa, Universite de Bordeaux, France
Thesis title : *Robust astronomical source detection using convolutional neural networks*
Supervisor : Herve Bouy

Participation in Master Thesis Jury

19/Apr/2016 Renuka Pampana, Dep. of Computer Science - U. of Houston, USA
Thesis title : *A new approach to domain adaptation applied to supernova photometric classification*
Supervisor : Prof. Ricardo Vilalta

PhD students

Oct/2021 - Sep/2024 Etienne Russeil, LPCA - France
Thesis title : *Feature engineering and machine learning for 21st century astronomy*

Co-supervision of PhD students

Jun/2016 - Dec/2018 Alexandre Ciulli, LPC - France
Thesis title : *Cosmology and Type Ia Supernovae : influence of peculiar velocities and anisotropies*
Supervisor : Prof. Philippe Gris

Jun/2012 - Jun/2015 Michele Sasdelli, MPA - Germany
Thesis title : *A new metric space for type Ia supernova spectra*
Supervisor : Prof. Wolfgang Hillebrandt

May/2011 - Aug/2013 Sandra Benitez-Herrera, MPA - Germany
Thesis title : *Cosmological Parameter Estimation from type Ia supernovae*
Supervisor : Prof. Wolfgang Hillebrandt

Selected list of invited talks/lectures

- 05-09/Jun/2023 Michigan Cosmology Summer School, MSU - USA
3h tutorial on Machine Learning
- 10/Mar/2023 Invited to a special discussion session at the Royal Astronomical Society on :
Harvesting spectroscopic and time series data with machine learning and artificial intelligence, London - UK
- 21/Sep/2022 Nature Reviews Physics : Machine learning in astrophysics and cosmology
The Alan Turing Institute, online
- 05-10/Dez/2021 14th TRR33 Winter School on Cosmology, Passo del Tonale - Italy
4h tutorial on Statistics in Cosmology
- 04/Mar/2020 Bayesian Deep Learning for Cosmology and Gravitational Waves, Paris - France
- 25/Apr/2019 Enabling Multi-Messenger Astrophysics in the Big Data Era, Baltimore - USA
- 21/Mar/2019 Institut Pascal, Paris - France
- 20/May/2018 Astronomical Data Analysis Summer School, Valencia - Spain
4.5 hours tutorial on Machine Learning
- 10-16/Dez/2017 11th TRR33 Winter School on Cosmology, Passo del Tonale - Italy
4h tutorial on Statistics in Cosmology