



Curriculum Vitae

Roser Pello

1. Professional Information

Laboratory : Laboratoire d'astrophysique de Marseille

Pôle de l'Étoile Site de Château-Gombert

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Present Position : Astronomer (*Classe Exceptionnelle*, since January 2016). CNAP. Permanent position at the national level.

2. Education and Awards

- **June 1984 :** Bachelor in Physical Sciences, University of Barcelona.
- **January 1986 :** Degree in Astrophysics, University of Barcelona. THESIS : « *Influència de les SN I en els models unizonals d'evolució galàctica* » (in Catalan). Academic award from *Institut d'Estudis Catalans* in 1986, in the category of Physics.
- **June 1990 :** PhD in Astrophysics, University of Barcelona. THESIS : « *Contribucion al estudio de la evolucion fotoquímica de galaxias en cumulos ricos. Estructuras en forma de arco en el centro de los cumulos* » (in Spanish). Supervisor : Prof. B. Sanahuja. PhD award from University of Barcelona in 1992.
- **December 2002 :** Habilitation to direct research (French HdR), Université Paul Sabatier (Toulouse, France). THESIS : “ *Redshifts Photométriques et Télescopes Gravitationnels, des approches originales pour l'étude de l'évolution des galaxies*” (in French).

3. Member of

- . International Astronomical Union (IAU)
- . *Société Française d'Astronomie et d'Astrophysique* (SF2A)
- . *Sociedad Espanola de Astronomia* (SEA)
- . European Astronomical Society (EAS)

4. Scientific Interests (key words)

- . Evolution, assembly and physical properties of galaxies
- . Observational Cosmology : Galaxy formation, re-ionization, cosmological surveys
- . Gravitational Lenses

5. Professional Career

- September 1985 – December 1986 : Fellow award from CIRIT (*Comissio Interdepartamental de Recerca i Innovacio Tecnologica*, Generalitat de Catalogne), at Observatoire Midi-Pyrenees (Toulouse, France)
- January 1987 – December 1989 : PhD fellowship from the Spanish Research Ministry (PFPI grant, *Plan de Formacion de Personal Investigador*), at University of Barcelona.
- January 1990 – September 1992 : Assistant junior professor at University of Barcelona, Physics Department.
- October 1992 – October 2004 : Assistant astronomer (junior position; CNAP, national level) at *Observatoire Midi-Pyrénées* (Toulouse, France)
- October 2004 to October 2019 : Astronomer (senior position; CNAP, national level) at *Observatoire Midi-Pyrénées* (Toulouse, France)
- Since October 2019 : Astronomer (senior position; CNAP, national level) at Laboratoire d'astrophysique de Marseille (LAM, Marseille, France)

Responsibilities in Science and Administration (> 2010)

- **Responsibilities at the LOCAL level :**
 - **June 2010 – July 2013 :** Deputy Coordinator of GAHEC ("Galaxies, Hautes Énergies et Cosmologie"), in charge of the scientific live and strategy.
 - **July 2013 – January 2016 :** Coordinator of GAHEC.
 - **September 2009 – September 2013 :** Elected Member of the Scientific Council of the Observatoire Midi-Pyrénées.
 - **April 2009 – September 2013 :** Substitute member at the Pedagogic Commission of the Doctoral School SDU2E
- **Responsibilities at the NATIONAL level :**
 - **Since September 2016 :** Elected member of the **Section 17 of CNRS**. Member of the executive Board.
 - **November 2015 – October 2016 :** Substitute Member of the Scientific Council of the **CNU**, Section 34.
 - **November 2011 – November 2015 :** Elected Member of the **Conseil National des Astronomes et Physiciens (CNAP)**, Astronomy Section.

- **November 2007 – September 2011** : Member of the Scientific Council of **CNU**, Section 34.
- **2012 – 2017** : Member of the Scientific Council of **LabEx OCEVU** (Origine, Constituants et Evolution de l'Univers, <https://www.labex-ocevu.univ-amu.fr>), of Aix-Marseille Université in partnership with the CNRS and the Universities of Montpellier 2 and Toulouse III.
- Panel member of AERES for the evaluation of French laboratories: Lagrange / Cassiopée / Fizeau in Nice (February 2011); Observatoire de Strasbourg (January 2012)
- Panel member of HCERES for the evaluation of French laboratories (as representative of the CNRS Sect. 17) : IAP (January 2018).
- Panel member for the allocation of permanent positions at the University by public competition : junior professor Université de Bordeaux 1 (2009), senior professor Université d'Orsay (2014), senior professor AMU (2019)
- External referee for the allocation of grants by *Région Ile-de-France* (2008, 2009, 2012, 2015).
- External referee for the TAC of CFHT, the PNCG and the ANR.
- External referee for 16 thesis jurys in France, Spain and Switzerland (since 2012).

• **Expertise / Reviewer at the international level :**

- Expert for the COFECUB, Comité Français d'Évaluation de la Coopération Scientifique et Universitaire with Brasil.
- Several reports performed for FONDECYT (Argentina), PROTEA (South Africa), and the German Research Foundation.
- External referee for the Spanish Time Allocation Committee (TAC) of the GTC (*Gran Telescopio Canarias*) between 2008-2012.
- Member of the Spanish TAC for telescopes at La Palma (ING, GTC,..) between May 2015 and October 2016. Chair of the GACOS Panel (Galaxies and Cosmology) between November 2015 and November 2016
- Referee for *Astronomy and Astrophysics*, *Astrophysical Journal*, *MNRAS* and *Experimental Astronomy*.

• **Project Leadership of Scientific collaborations / Networks :**

- 2009 - 2014 : Leader of the project funded by the French ANR « Recherche et Etude des premières Galaxies dans l'Univers » (CSD 6- Sciences de l'univers et geo-environnement). The network involved scientists from Marleille (LAM), Terapix/IAP and Geneva Observatory (see <http://regaldis.ast.obs-mip.fr/>).
- Co-Lead with B. Hoyle (Munich) of the *Work Package* « Clusters - Validation » within the OU-LE3 of the EUCLID project, since 2011.
- Leader of the *Work Package* «SED-fitting» within the OU-PHZ (Photometric Redshifts) of the EUCLID projet since 2014. Between 2011 and 2014, leader of the *Work Package* «New-hyperz» of OU-PHZ.

- French PI of the ECOS-SUD project C16U02 (2017-2020), between our group at IRAP and the PUC at Santiago du Chile (F. Bauer's team).
- Co-I of the instrument EMIR for the GTC, and member of *Science Core* of EMIR/GOYA since 2003.
- Leader of the French (minor) contribution to the instrument FRIDA for the GTC (Canaries), between 2006 and 2011.
- PI of the WUDS Survey (WIRCAM Ultra Deep Survey).

- **Main participation / membership to international collaborations :**

- Member of the *Science Core* of zCOSMOS: ESO "Large Program" for the spectroscopic follow up of galaxies in the COSMOS Survey (PI: Simon Lilly (ETH Zurich); see <http://www.exp-astro.phys.ethz.ch/zCOSMOS/>), between 2003 and 2014.
- Member of the MUSE (<http://muse.univ-lyon1.fr/>), 2nd generation instrument for the VLT, since 2006.
- Member of the *Science Team* of MOONS, next generation instruments for the VLT, since 2017.
- Member of the Science Working Groups « Primordial Universe » and « Clusters of Galaxies » for the EUCLID project (<http://www.euclid-ec.org/>) since 2011.
- Member of the *HERSCHEL Lensing Survey* (HLS, P.I. E. Egami) (2008-2015).

Supervised students

- **PhD Students :**

1. **1991-1995 :** Rosendo Vilchez Gomez, (co-supervised with Dr. Blai Sanahuja, University of Barcelona). Thesis : "Estudio fotométrico de Galaxias en cumulos". M. Vilchez is a senior professor at the *Universidad de Extremadura* in Spain.
2. **1994-1998 :** Joan-Marc Miralles. UPS Thesis on the detection and characterization of large-scale structure responsible for weak shear using photometric redshifts. M. Miralles is working for the Culture Ministry of Andorra.
3. **1994-1997 :** Inma Tijera Jiménez. Thesis of the University of Barcelona. She she abandoned her thesis end 1997 due to serious health problems.
4. **1999-2001 :** Micol Bolzonella. Thesis of the Instituto de Fisica Cosmica of Milan (PhD., Italy). Thesis : "Galaxy evolution beyond the spectroscopic limit " (co-supervised with D. Maccagni, IFC, Milan). She has a permanent position at the Osservatorio Astronomico di Bologna in Italy.
5. **2000-2003 :** Marie Lemoine-Busserolle. UPS thesis on the physical properties of high-z galaxies from NIR spectroscopy. She has a permanent position at the Gemini N Observatory (Hawaii).

6. **2002-2005** : Johan Richard. UPS thesis : “*Propriétés des premières étoiles et galaxies. Contraintes sur les modèles de formation des galaxies*”. He is presently associated astronomer in permanent position at the CRAL (Lyon).
 7. **2003-2006** : Erika Labbé. UPS thesis in co-supervision with D. Minniti, from “*Pontificia Universidad Catolica de Chile*” (PUC, Santiago du Chili). Topic : “*Propriétés de regroupement des galaxies à $3 \leq z \leq 5$* ”. Mrs. Labbé abandoned her thesis end 2006, to devote herself to teaching and popularization activities in Chile.
 8. **2004-2007** : Florence Ienna. UPS thesis on the scientific exploitation of the CFHTLS survey : “*Evolution des propriétés globales des galaxies dans le Canada-France-Hawaii Telescope Legacy Survey*”. She is presently in charge of the popularization department of the Lille University (France).
 9. **2006-2009** : Alexandre Maizy. UPS thesis : « *Identification et étude détaillée de sources à très grand décalage spectral ($z > 7$) : Préparation et exploitation du Survey EMIR/GOYA* ». He has a permanent position at the French l'INSEE since September 2011.
 10. **2009-2012** : Nicolas Laporte. UPS thesis : « *Recherche et étude des premières Galaxies dans l'Univers* ». N. Laporte received the Maury Award of the Académie des Sciences de Toulouse in 2013 for his thesis. He is presently research fellow at IoA Cambridge (UK).
 11. **2013 - 2016** : David Bina (co-supervision at 80% with J. G. Cuby from LAM). UPS thesis : « *Spectroscopic Redshift Surveys in OCEVU: Galaxy assembly within the first billion years* ». He is presently working for a start-up in Paris.
 12. **2016- 2019** : Geoffroy de la Vieuville. UPS thesis on the « *Les sources de la réionisation : le regard privilégié de MUSE* ». He left astrophysics for a position on a private company.
- **Other students :**
 - 18 internships at master level supervised since 1992, as well as ~10 other lower-level internships during the last 10 years.
 - More than 25 thesis and HdR jurys and reports since 1997.

November 2019