

Véronique BUAT

Professor, EX1, Aix Marseille University (AMU), OSU Pytheas

Research unit : Laboratoire d'Astrophysique de Marseille, Galaxies et Cosmologie (GECO) team

Teaching units : Mechanics and Physics departments of AMU

1989: **PhD** "Astrophysique et Techniques Spatiales", University Paris VII:

Ultraviolet emission of spiral and irregular galaxies, interpretation in terms of stellar formation

1995: **Habilitation à diriger les recherches (HDR)**, Université Aix-Marseille I

Ultraviolet emission of disk galaxies from the local to the distant universe

1989-2003 : **Lecturer in Physics**, section 30, Université Aix-Marseille III

Since 2003 : **Professor in Astrophysics**, section 34, Université de Provence & Aix-Marseille University (AMU)

Senior member of the Institut Universitaire de France (IUF) 2012-2017 & 2018-2023

Research activity :

Formation and evolution of the galaxies : star formation activity, quantification of the dust attenuation of stellar emission

Specific fields :

Star formation rate measurements

Quantification of the dust attenuation

Statistical studies based on large samples of galaxies

Exploitation of spatial experiments, mostly in the UV and in the IR

Modelling and fitting of the spectral energy distributions from the X-ray to the radio wavelengths

Publications : 235 in refereed journals, 16557 citations (H-index=73)

Responsibilities in international projects

- 1998-2007: Associated Scientist on the **GALEX** satellite, coordinator of UV/FIR comparisons
- 1998-2014: Associated Scientist on **Herschel/SPIRE** : member of "scientific astronomy groups" 1 (cosmological survey) and 2 (local universe).
- 1999-2013: Co-investigator in the open time key program: **GOODS-Herschel**
- 2001-2015: Co-investigator on **AKARI**, coordinator of the **GALEX/AKARI** synergy
- 2004-2008: CNRS coordinator of the European network **MAGPOP**
- 2009-2013: AMU coordinator of the **ANR HUGE**
- 2014-2018: CNRS coordinator and core member of the **FP7-Space European project HELP**
- 2017-2021: PI of the A*MIDEX project **COCOON**
- 2017- : Member of the science team of **MOONS**
- 2019- : Member of the ERS JWST program **CEERS**
- 2019- : Co-investigator of the **SVOM mission**
- 2019- : CNRS coordinator of the **ANR ZGAL**

Local committees and administrative responsibilities

Only listed after 2002, at the Université de Provence / AMU

- 2003-2008: elected member of the UFR MIM council (mathematics-computer science-mechanics), Université de Provence, Aix-Marseille
- 2005-2008: president of the scientific council of the Observatoire Astronomique Marseille Provence (OSU-OAMP)
- 2008-2012: elected member of the LAM council

- 2008-2012 : elected member of the council « Etudes et Vie Universitaire »(CEVU), Université de Provence
- 2012-2016: nominated member of the Scientific Council of the LAM
- 2012-2017: elected member of the scientific council of Pytheas, member of the executive board, LAM coordinator.
- 2012- : head of the training committee at LAM
- 2016- : member of the 'conseil de perfectionnement' in charge of the bachelor and master of physics of AMU
- 2021- : deputy director of the Doctoral School 'Physique et Sciences de la matière'

National and international councils and committees

- 2004-2008 : member of the scientific council of "Programme National Galaxies"
- 2004-2006: member of ESO panel, section "galaxies"
- 2006-2010 : member of the CNES-ASTRO committee (Centre National des Etudes Spatiales)
- 2011-2015 : vice president of the National Council of the Universities, section 34/Astrophysics.
- 2012- : member of several AERES and HCERES committees
- 2015-2019 : President of the National Council of the Universities (CNU) section 34/Astrophysics
- 2015-2019 : Member of the CNU working group in charge PhD/HDR diploma.
- 2015-2019 : external member of the Scientific Council of the Observatoire de Paris
- 2016- : European expert for the FP7/SPaCE programs
- 2014-2017 : Board member of the SF2A, in charge of training activities and prizes distribution
- 2018-2020 : Member of the INSU prospective committee, head of groupe H: formation et valorisation
- 2021-2026 : Member of the HCS committee of the Observatoire de Paris

Training/Teaching responsibilities

- 2008-2012: Head of committee in charge of teaching duties and training programs in Mathematics Mechanics and Computer Science, implementation of the LMD program
- 2012- : Head of the training committee at LAM
- 2014-2018 : Creation and (co)responsability with Patrice Theulé of the 2-year (M1 & M2) SPaCE international master program. Budget: 120 k€/year (Excellence Academy:AMIDEX-AMU). Based on innovative teaching methods: inverse learning, supervised project, full immersion in laboratories.
- 2015- : Head of the training panel of the LABEX OCEVU
- 2017-2019 : Member of the board building the IPhU graduate school
- 2020- : Board member of the IPhU graduate school, PhD program

Research promotion

Organisation of workshops/conferences:

- Conference 'Multiwavelength Analysis of Galaxy populations', January 2005, Cassis, France, local and scientific organizer-
- Workshop WISH, 2014, Marseille: LOC member
- Workshop FLARE, Marseille: march 2016: LOC member
- Workshop 'The Herschel Extragalactic Legacy Project', November 2015, Marseille: local/scientific organizer
- Conference: 'A cosmic census of the galaxies in the distant universe, Lorentz Center, June 2016: scientific organizer, SOC member
- IAU conference: 'Challenges in panchromatic modelling with next generation facilities', Osaka, November 2018, SOC member
- Conference 'The rise of metals and dust in galaxies through Cosmic Time', November 2020, on line conference, LOC head

Book edition: Star formation rates in galaxies, ed. A. Zezas & V. Buat, Cambridge University Press, 2021