Curriculum vitae

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POSITION AND EDUCATION

2014	Senior Astronomer (CE2 grade), Corps National des Astronomes et Physiciens
	Laboratoire d'Astrophysique de Marseille (LAM), Aix-Marseille University, France
2009 - 2013	Senior Astronomer, Institut d'Astrophysique Spatiale (IAS), France
2000 - 2009	Tenure Assistant Astronomer, IAS, France
2008	HDR (D. Sc.) in Astrophysics, Paris-XI University
1995 - 1998	PhD Astrophysics, IAS, Paris-XI University

FELLOWSHIPS AND AWARDS

2021	"Silver medal" award of the CNRS
2018 - 2023	ERC Adv. Grant "CONCERTO"
2018	Gruber 2018 Cosmology Prize awarded to the Planck Team and PIs Mandolesi and Puget
2018 - 2021	A*MIDEX grant for the CONCERTO project
2015-2018	Co-PI of "NIKA2Sky" funded by the "Agence Nationale de la Recherche" (ANR)
2012	Madame Victor Noury Prize, Grand Prix de l'Académie des Sciences
2008	"Young researcher" Prize of the French Astronomical Society
2005 - 2006	"Distinguished Visiting Associate In Physics", IPAC/Caltech, Pasadena
2006 - 2009	PI of D-SIGALE (http://www.ias.u-psud.fr/dsigale/) funded by the ANR
Since 2003	Regular funding for scientific projects, travel and hardware from INSU programs (PNG,
	PNC, PNCG), CSAA, Labex and CNES
1998 - 2000	CNES post-doctoral fellowship

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

I have supervised 9 PhD students and 13 postdoctoral fellows (and 10 Master students). The list of the individual, and current position, is: Alexandre Beelen (tenured assistant astronomer, LAM), Matthieu Béthermin (tenured assistant astronomer, LAM), Benjamin Bertincourt (senior data engineer, HelloFresh, New York), Longji Bing (PhD Dec 2022, applying for post-docs), Karina Caputi (professor, Kapteyn Astronomical Institute, Groningen), Morgane Cousin (R&D engineer, STILOG I.S.T, La Ciotat), Alessandro Fasano (post-doctoral fellow, LAM), Nestor Fernandez-Conde (Managing Director, InOpinia, Paris), Abhishek Maniyar (post-doctoral scolarship, Stanford), Athanasia Gkogkou (PhD, LAM), Wenkai Hu (post-doctoral fellow, LAM), Delphine Marcillac (in charge of innovation and entrepreneurship, Ecole Polytechnique, Palaiseau), Aurélie Penin (senior data scientist, SixFoisSept, Paris), Paolo Serra (senior data scientist, Take-Two Interactive Software, New York), Maud Sorel (Physics teacher, France), Dylan Tweed (data scientist, Capgemini Engineering, Toulouse), Niraj Welikala (research fellow, ROE, Edinburgh), Mathilde Van Cuyck (PhD, LAM).

TEACHING ACTIVITY AND OUTREACH

Teaching duties represent 20% of my time. I am teaching at the Aix-Marseille University, for undergraduate and graduate students. I am also active in outreach activities. For instance, I conducted a project on "Women in Science" with a hundred of students aged 13-14 years (9th Grade) following a preparatory work based on the movie "Hidden figures".

ORGANISATION OF SCIENTIFIC MEETINGS (selection)

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2021-2023	SOC and LOC member of the conference "From the Galaxy to the Big Bang: Celebrating	
	Jean-Loup Puget's contribution to Astrophysics and Cosmology" Banuyls-sur-mer, June	
	2023	
2022-2023	SOC of the conference "Present and Future of Line-Intensity Mapping", MPA, April 2023	
2020-2021	Organisation of a summer international school PNCG-PCMI, Banuyls-sur-mer	
	"The Interstellar Medium of Galaxies, from the Epoch of Reionization to the Milky Way"	
July 2019	Organisation of the 13th Edition of the Marseille Cosmology Conference Series, "Lines in	

the Large Scale Structure: the promise of intensity mapping" (https://l2s2.sciencesconf.org/) Chair of the SOC

May 2018 Organization of the workshop SKA: "Extraordinary Energy and Big-Data challenges" LAM,

Marseille

SELECTED COMMITTEE SERVICE AND COMMISSIONS OF TRUST

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Since 2022	AS SKA-LOFAR: member of the board
2021-2022	Member of the Science and Engineering Advisory Committee (SEAC) of SKA
20-2022	Member of the national CNRS-INSU commission of Astronomy & Astrophysics, a board in
	charge of selecting the best national projects for funding (scientific secretary)
2018-2022	Member of the Scientific Advisory Council of IRAM
2017	Member of the faculty recruiting committee at the ENS, France (recruitment of Nick Kaiser)
2017	Member of the High Council for Evaluation of Research and Higher Education committee
	for the Lagrange laboratory
2015-2016	Member of the Ad hoc committee called by the French governing bodies to define a joint
	roadmap on the future of Cosmic Microwave Background research
2016-2018	Chair-person of the LAM Scientific Council
2014	Member of the board of the CNRS-INSU science pluri-annual strategic planning
2008-2012	Member of the CoNRS Section 17 (national evaluation and recruitment committee)
2006-2010	Member of the Astronomy Working Group of the French Space Agency (CNES)
2007-2010	Member of the "Spitzer Science User Panel" (European representative)
2008-2009	Member of the board of the CNRS-INSU science pluri-annual strategic planning
	Chair of the working group "Ground and Space experiment synergies"
2002-2006	Member of the board of the French Astronomical Society
Since 2007	Reviewer for research proposals for:
	the French national research agency (ANR Blanc and Chaires d'excellence), the Lagrange
	Institute (IDEX), the NSERC, the DIM-ACAV, INSU and the ERC
Since 2007	Member of 17 PhD and HDR juries
Since 2005	Member of Time Allocation Committees: Spitzer, CFHT, IRAM, Opticon, ALMA

PUBLICATIONS

- As of Jan 2022: 360 publications published in refereed journal with more than 79,430 citations.
- 26 invited presentations in international conferences, and 42 invited seminars since 1997
- > 30 oral presentations in international workshops or conferences.

MAJOR COLLABORATIONS AND TEAM MANAGEMENT

- PI of the **CONCERTO** project (https://mission.lam.fr/concerto/).
- NIKA2/IRAM camera: core team member. Co-coordinator of the Guaranteed Time Project on Deep Cosmological Surveys (300 hours) and management of the team working on deep field surveys. Participation to the observational campaigns at the IRAM 30m telescope and to the commissioning of the NIKA2 camera.
- French **SKA** White Book: coordination of the science themes "early Universe, cosmology and large-scale structures" and "extra-galactic astronomy" (about 15 contributions).
- Leading role in the **Planck** collaboration, and in particular in the HFI consortium: L1 operation, L2 data reduction pipeline (in particular photometric calibration), L3 validation, & science exploitation (leading the CIB analysis). Core team member, HFI associate and Planck Scientist. Coordinator and team management of the working group dedicated to the CIB (WG6.6).
- Member of the executive committee of the **Herschel** Open Time Key Project H-ATLAS (2008 2011), "The Herschel Astrophysical Terahertz Large Area Survey" (600 hours).
- Associated Member of the Herschel/SPIRE Guaranteed Time Observation, high-z "Science Advisory Group" (900 hours).
- Member of the **Spitzer**/MIPS GTO deep survey team PI/co-PI of three Spitzer/IRS Open Time Proposals (for a total of 404 hours).
- Member of the **Archeops** CMB collaboration (main contribution on photometric calibration and data reduction).
- Leading role in the FIRBACK/**ISOPHOT** collaboration -- FIRBACK was the 8th largest ISO observational program (PI: Jean-Loup Puget). Responsible of the management of the collaboration.

Alexandre Beelen

Associate Astronomer

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Present Occupation

07/2020 - Associate Astronomer, Laboratoire d'Astrophysique de Marseille, Marseille, France

Past Occupations

- 2009 2020 Associate Astronomer, Institut d'Astrophysique Spatiale, Orsay, France
- 2007 2009 **Post-doc**, *Institut d'Astrophysique Spatiale*, Orsay, France G. Lagache (IAS, Orsay)
- 2004 2006 **Post-doc**, *Max-Planck-Institut für Radioastronomie*, Bonn, Allemagne F. Bertoldi (Uni-Bonn, Bonn)
- 2001 2004 **PhD**, Institut d'Astrophysique Spatiale, Orsay, France 'Gas and dust in high redshift quasars' Advisor: P. Cox (IAS, Orsay)

Responsabilities

- 2015 2021 Member of the CSAA-ANO5 subcommittee
- 2014 2019 Member of the IRAM Time Allocation Committee
- 2012 2019 Head of the ANO5 labeled service IGLO
 - 2005 Referee for MNRAS & A&A

Supervision

- 2020 Co supervision of Mathilde Van Cuyck PhD Thesis, LAM
- 2020 Co supervision of Diana Ismail PhD Thesis, LAM
- 2019 2021 Co supervision of Longji Bing PhD Thesis, LAM
- 2015 2017 Co supervision of Chentao Yang PhD Thesis (CAS), IAS
- 2012 2014 Co supervision of Veeresh Singh Postdoc (CEFIPRA), IAS
- 3 mois 2009 Co supervision of Yiping Ao Postdoc Ao, IAS
- 2005 2006 Co supervision of Manuel Aravena PhD Thesis, Université de Bonn

Research Projects

- 2019 Member of the CONCERTO project
- 2017 Member of the z-GAL project
- 2011 Member of the NIKA consortium
- 2011 2015 Co-PI of a CEFIPRA Indo-French collaboration
- 2008 2018 AS of the SPIRE consortium; Member of the H-ATLAS and HerMes consortia
- 2007 2017 Member of the Planck/HFI consortium

Teaching

- 2021 Fonctionning of computers, tutorials AMU, L1en2ans Descartes
- 2020 Geometrical Optics classes AMU, L1 Portail Descartes
 - 2015 Continuum Observations & Sciences classes IRAM Summer School
- 2014 2016 Coordinator of the Data Analysis module M2R AAIS
- 2009 2019 Scientific Computing and Data Analsysis classes

 M2R AAIS & M2R NPAC

 2005 Teaching Assistant for bolometer lectures

 IRAM Summer School