

José Luis Bernal

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RESEARCH INTERESTS	Cosmology: large-scale structure, line-intensity mapping, dark matter, Hubble constant tension, agnostic modeling and data analysis, neutrino cosmology, primordial non-Gaussianity, blinding methods in cosmology.		
PROFESSIONAL CAREER	Max Planck Institute for Astrophysics, Postdoctoral research fellow	Oct 2022 – present	
	Johns Hopkins University, Davis Postdoctoral Fellowship Department of Physics and Astronomy	Oct 2019 – Sept 2022	
	University of Barcelona, FPI fellow PhD Candidate Quantum Physics and Astrophysics Department, Institute of Cosmos Sciences	Sept 2015 – Sept 2019	
EDUCATION	Ph.D. in Physics, University of Barcelona	Sept 2019	
	PhD Thesis: <i>Cosmology on the edge of ΛCDM</i> , (excellent <i>Summa Cum Laude</i>) Advisor: Licia Verde		
	M.Sc. in Theoretical Physics, Universidad Autónoma de Madrid	Jun 2015	
	Master Thesis: <i>A consistency test of General Relativity using Expansion History and Growth of Structures</i> Advisors: Licia Verde, Antonio J. Cuesta, Alexander Knebe		
HONORS & AWARDS	Bachelor Degree in Physics with honors, Universidad Autónoma de Madrid	June 2014	
	Second Prize of the XXV Prize ‘Claustre de Doctors’ of the University of Barcelona	2021	
	Doctoral Extraordinary Prize at the University of Barcelona, class 2018-2019	2021	
	Spanish Astronomy Society Thesis Prize to the best Doctoral Thesis in A&A	2020	
	Allan C. and Dorothy H. Davis Postdoctoral Fellowship, JHU	2019	
	FPI Fellowship for the formation of doctors, Spanish MINECO	2015	
	Postgraduate Fellowship to study the Master in Theoretical Physics, UAM+CSIC	2014	
	Extraordinary Prize for the Best Academic Record of Physics 2014 Class, UAM	2014	
TEACHING	Excellent Fellowship, Madrid regional Government	2013, 2012, 2011, 2010	
	Teaching Assistant at the University of Barcelona		
	Astronomy	Spring 2017	
PEER REVIEW	Ordinary Differential Equations and Vector Calculus	Spring 2017, Spring 2018	
	Astrophysics and cosmology journals, including: ApJ, JCAP, A&A, PDU, EPJC, Universe, IJMPD		
	External reviewer: Universidad Computense de Madrid’s program ‘Ayudas para la realización de proyectos I+D para jóvenes doctores’		
	2022		

External reviewer for NASA’s FINESST program

2020, 2021, 2022

MENTORING	Graduate students: Gabriela Sato-Polito (3 publications), Hector A. Cruz; current graduate students at JHU Katie Short (2 publication); current graduate student at ICC-UB	
PUBLICATION METRICS	31 refereed journal publications (14 first-authored), 1600+ citations, h -index=18 6 additional articles submitted (3 to PRL, 2 to PRD, and 1 to JCAP).	
OUTREACH	Round table about dark matter for the “Dark Matter Day” At what speed does the Universe expands? - Invited talk, Sabadell Astronomy Group Unravelling the dark Universe - Exhibition about cosmology, gravity and black holes Physics Experiments - UB (demonstrations for High school students) Walk on the Dark Side - Invited talk for Physics bachelor students Physis - UB (demonstrations for High school students)	2018 2018 2017 2016, 2017, 2018 2016 2016
PROFESSIONAL ACTIVITIES	Member of the SKA Cosmology group and Graviational Waves group Member of the Australian SKA Pathfinder (ASKAP) Cosmology group Postdoc representative in the “Joint JHU/STScI Colloquium Committee” Founder and coordinator of “Physics and Astronomy Postdocs and Research Scientists” association at JHU Organizer of the “Particle theory seminars” at JHU Founder and organizer of the “PhD & Science” meetings at the ICCUB LOC member in “Venice Cosmology Workshop 2018: The Island”	2018 - present 2018 - present 2021 - 2022 2020 - 2022 2020 - 2022 2018 - 2019 2018
VISITING RESEARCH	Department of Physics and Astronomy, JHU (funded by María de Maeztu) Institute for Astronomy, University of Edinburgh (funded by ICCUB) Radcliffe Institute of Advanced Study, Harvard (funded by FPI fellowship)	April 2018 October 2017 April - June 2016
REFERENCES	<u>Marc Kamionkowski</u> Johns Hopkins University (+1) 410-516-0373 kamion@jhu.edu <u>Ely D. Kovetz</u> Ben-Gurion University (+972) 545-953349 kovetz@bgu.ac.il	<u>Licia Verde</u> Institute of Cosmos Sciences (ICC-UB) (+34) 934031328 liciaverde@icc.ub.edu <u>Alvise Raccanelli</u> University of Padova (+39) 0498277113 alvise.raccanelli.1@unipd.it