



Andreu Font Ribera

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Current Position

2020- : Staff Scientist at Institut de Física d'Altes Energies (Bellaterra, Spain). Research group with 2 PhD students.

2020- : Ramon y Cajal Fellow, Institut de Física d'Altes Energies (Bellaterra, Spain).

Previous Positions

2018-2020 : Lecturer in Cosmology, University College London (London, UK). Research group with 3 PhD students and 2 master students.

2016-2020 : STFC Ernest Rutherford Fellow, University College London (London, UK).

Postdoctoral Positions

2013-2016: Lawrence Berkeley National Laboratory (Berkeley, USA).

2011-2013: University of Zurich (Zurich, Switzerland).

Education

2003-2007: Physics Degree at the Universitat de Barcelona, with Extraordinary Award.

2007-2008: Master in Astrophysics at the Universitat de Barcelona. Grade of 9.3 (out of 10).

2008-2011: PhD in Physics at the Universtitat de Barcelona, with Prof. Jordi Miralda-Escudé. Excellent Cum Laude. PhD Extraordinary Award.

Research Experience and Leadership

2017-2020 : Co-chair of the Lyman-alpha working group of the Dark Energy Spectroscopic Instrument (DESI).

2012-2016: Co-chair of the Lyman-alpha working group of the SDSS-III Baryon Oscillation Spectroscopic Survey (BOSS).

2013-2015: Co-chair of the Lyman-alpha working group of the SDSS-IV Extended Baryon Oscillation Spectroscopic Survey (eBOSS).

2015-2016: Member of the SDSS-IV Collaboration Council, representing Lawrence Berkeley National Lab.

2008-: Co-author of over 70 publications in high impact journals, more than 15500 citations, h index = 42 (NASA ADS).

2008-: First author of 8 publications in high impact journals, with more than 760 citations.



2008-: Astronomy and cosmology seminars given at over 50 international institutions, including Harvard, Stanford, Princeton, Berkeley, Oxford or Cambridge.

2012-: Refereed articles for Science, Physical Review Letters, Physical Review D, The Astrophysical Journal, Physics Letter B, Astronomy & Astrophysics, Astrophysical Journal Letters and Journal of Cosmology and Astroparticle Physics.

2018: Referee of an ERC starting grant proposal. 2017: Invited lecturer at the "Cosmology school in the Canary Islands" (Spain, September 2017) and at "Essential cosmology for the next generation", a.k.a. "Cosmology on the beach" (Mexico, December 2017).

Awards

2020: Ramon y Cajal Fellowship (RYC-2018-025210) of the Spanish Ministry of Science and Innovation. 2019: PI of DiRAC allocation of 4.5M CPU hours (PI): Constraining inflation and neutrino masses with DESI.

2018: PI of DiRAC allocation of 460k CPU hours (PI): Modeling of neutrino masses in DESI.

2017: Co-I of the UCL Astrophysics Consolidated Grant 2018-2021 (ST/J000476/1) by the Science & Technology Facilities Council, UK. Total award: £1,308,814 over three years.

2016: Ernest Rutherford Fellowship (ST/N003853/1), by the Science & Technology Facilities Council, UK. Award: £491,529 over five years.

2014: Kavli Fellowship (postponed), by the Institute for the Physics and Mathematics of the Universe, Tokyo.

2014: Lagrange Fellowship (declined), by the Institut Lagrange de Paris.

2013: PhD Extraordinary Award, by the Universitat de Barcelona.

2008: JAE Predoctoral Grant, by the Spanish Research Council (CSIC).

2008: Extraordinary Award on Physics, by the Universitat de Barcelona.

2003: Best Experimental Exercise Prize and Silver Medal in the Iberoamerican Physics Olympiad, La Habana (Cuba).

2003: Gold medal in the Spanish Physics Olympiad, Cuenca (Spain).

General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Staff Scientist at the Institut de Física d'Altes Energies (IFAE).

Over 80 talks given at international conferences, collaboration meetings and invited seminars at top universities like UC Berkeley, Harvard University, Princeton University, Stanford University, Oxford University, Cambridge University or the Max Planck Institute for Astronomy. During 2019 I was invited to give 10 presentations, including seminars/colloquia in Sussex, Portsmouth, IFAE, Aachen, ICE, King's College and Tsinghua University.

Over 70 publications in top international journals (impact factors from Web of Knowledge in 2015): Astrophysical Journal Supplement (9.0), Astrophysical Journal (5.5), Journal of Cosmology and Astroparticle Physics (5.6), Astrophysical Journal Letters (5.5), and the Monthly Notices of the Royal Astronomy Society (5.0), Physical Review D (4.6) and Astronomy & Astrophysics (5.0). I have an h-index of 42 (NASA ADS). Total number of citations (as of January 9th 2021, from NASA ADS): 15528.

First author of 8 publications, including the most precise measurement of the expansion of the Universe at high redshift (Font-Ribera et al. 2014a, 304 citations at NASA ADS), and a detailed study of neutrino mass experiments (Font-Ribera et al. 2014b, 207 citations at NASA ADS).

Refereed articles for Science, Physical Review Letters, Physical Review D, The Astrophysical Journal, Physics Letter B, Astronomy & Astrophysics, Astrophysical Journal Letters and Journal of Cosmology and Astroparticle Physics.

Member of NASA panel to chose the science team of a major satellite mission.

Evaluator for an ERC starting grant and a proposal for the "Giovani Ricercatori - Rita Levi Montalcini" program.

I have been appointed chair of the Lyman alpha working group of the three major collaborations in the field: BOSS / SDSS-III (2012-2017), eBOSS / SDSS-IV (2013-2015) and DESI (2017-2020).

Andreu Font Ribera

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Personal web page: **<https://andreufont.github.io/>**

Current professional situation

Employing entity: INSTITUT DE FISICA D'ALTES ENERGIES

Professional category: Staff Scientist

Start date: 01/05/2020

Type of contract: Permanent employment contract

Dedication regime: Full time

Primary (UNESCO code): 220000 - Physics

Performed tasks: Staff Scientist in the Cosmology group, starting in 2020. Chair of the Lyman alpha working group of the Dark Energy Spectroscopic Instrument (DESI).

Previous positions and activities

	Employing entity	Professional category	Start date
1	University College London	Lecturer in Cosmology	01/05/2018
2	University College London	Senior Research Fellow	01/10/2016
3	Lawrence Berkeley National Laboratory	Postdoctoral Researcher	01/10/2013
4	University of Zurich	Postdoctoral Researcher	01/10/2011
5	Institute of Space Sciences (IEEC-CSIC)	JAE-PreDoc Studentship	01/01/2008

1 **Employing entity:** University College London **Type of entity:** University Department
Department: Physics and Astronomy
Professional category: Lecturer in Cosmology
Start-End date: 01/05/2018 - 30/04/2020 **Duration:** 1 year - 7 months
Type of contract: Permanent employment contract
Performed tasks: Lecturer in Cosmology starting in 2018. Leader of research group with two master students and four PhD students. Chair of the Lyman alpha working group of the Dark Energy Spectroscopic Instrument (DESI). Organizer of the UCL Astronomy Seminars. Chair of the PhD admission panel for the Cosmoparticle Initiative studentships.

2 **Employing entity:** University College London
Professional category: Senior Research Fellow
Start-End date: 01/10/2016 - 30/04/2018 **Duration:** 1 year - 7 months



- 3** **Employing entity:** Lawrence Berkeley National Laboratory **Type of entity:** Public Research Body
Professional category: Postdoctoral Researcher
Start-End date: 01/10/2013 - 30/09/2016 **Duration:** 3 years
- 4** **Employing entity:** University of Zurich **Type of entity:** University
Professional category: Postdoctoral Researcher
Start-End date: 01/10/2011 - 30/09/2013 **Duration:** 2 years
- 5** **Employing entity:** Institute of Space Sciences (IEEC-CSIC)
Professional category: JAE-PreDoc Studentship
Start-End date: 01/01/2008 - 30/09/2011 **Duration:** 3 years - 9 months



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1** **University degree:** Higher degree
Name of qualification: Master in Astrophysics, Particle Physics and Cosmology
Degree awarding entity: Universitat de Barcelona **Type of entity:** University
Date of qualification: 30/06/2008
Average mark: Outstanding
- 2** **University degree:** Higher degree
Name of qualification: B Sc in Physics
Degree awarding entity: Universitat de Barcelona **Type of entity:** University
Date of qualification: 30/06/2007
Average mark: Outstanding
Prize: Special award for degree

Doctorates

Doctorate programme: Physics
Degree awarding entity: Universitat de Barcelona **Type of entity:** University
Date of degree: 30/09/2011
European doctorate: No
Thesis title: Large Scale Structure with Lyman-alpha Absorption Surveys
Thesis director: Jordi Miralda Escudé
Obtained qualification: Cum Laude
Recognition of quality: Yes
Special doctorate award: Yes **Date of award:** 2013

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	B1	B1	B1	B1	B1
Catalan	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2



Teaching experience

General teaching experience

- 1 Name of the course:** PHAS0029: Practical physics with Computing
University degree: BSc Astrophysics
Start date: 06/01/2019 **End date:** 28/02/2020
Entity: University College London **Type of entity:** University
Faculty, institute or centre: Department of Physics and Astronomy
- 2 Name of the course:** PHAS0029: Practical physics with Computing
University degree: BSc Astrophysics
Start date: 07/01/2019 **End date:** 02/03/2019
Entity: University College London **Type of entity:** University
Faculty, institute or centre: Department of Physics and Astronomy
- 3 Name of the course:** Essential Cosmology for the Next Generation
University degree: PhD school
Start date: 12/2017 **End date:** 12/2017
Entity: Universidad Nacional Autónoma de México **Type of entity:** University
- 4 Name of the course:** Cosmology School in the Canary Islands
University degree: PhD school
Start date: 09/2017 **End date:** 09/2017
Entity: Instituto de Astrofísica de Canarias **Type of entity:** Public Research Body
- 5 Name of the course:** Statistics for Large Scale Structure
University degree: PhD in Astronomy
Start date: 30/05/2017 **End date:** 31/05/2017
Entity: University College London **Type of entity:** University
Faculty, institute or centre: Department of Physics and Astronomy
- 6 Name of the course:** Extragalactic Astronomy and Cosmology (substitute for Prof. Martin White)
University degree: PhD in Astronomy
Start date: 13/11/2015 **End date:** 13/11/2015
Entity: University of California at Berkeley **Type of entity:** University
Faculty, institute or centre: Department of Astronomy
- 7 Name of the course:** Advanced Cosmology (substitute for Prof. Uros Seljak)
University degree: PhD in Physics
Start date: 02/04/2015 **End date:** 02/04/2015
Entity: University of California at Berkeley **Type of entity:** University
Faculty, institute or centre: Department of Physics
- 8 Name of the course:** Observational Cosmology (substitute for Prof. Uros Seljak)
University degree: PhD in Physics
Start date: 11/04/2013 **End date:** 11/04/2013



Entity: University of Zurich

Type of entity: University

Faculty, institute or centre: Institute for Theoretical Physics

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Measuring the expansion of the universe at high redshift
Type of project: Doctoral thesis
Entity: INSTITUT DE FISICA D'ALTES ENERGIES
City of entity: Bellaterra, Catalonia, Spain
Student: Calum Gordon
Date of reading: 2025
- 2** **Project title:** Generating Synthetic Datasets for Future Redshift Surveys
Type of project: Doctoral thesis
Entity: INSTITUT DE FISICA D'ALTES ENERGIES
City of entity: Bellaterra, Catalonia, Spain
Student: César Ramírez
Date of reading: 2024
- 3** **Project title:** Likelihood Free Inference of Cosmological Data
Type of project: Doctoral thesis
Co-director of thesis: Stephen Feeney; Emily Nurse; Andreu Font-Ribera
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: Francesca Gerardi
Date of reading: 2022
- 4** **Project title:** New Analysis Methods for Weak Lensing Surveys
Type of project: Doctoral thesis
Co-director of thesis: Benjamin Joachimi; Andreu Font-Ribera
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: Maximilian Von Wietersheim-Kramsta
Date of reading: 2022
- 5** **Project title:** Statistical analysis of large quasar surveys
Type of project: Doctoral thesis
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: Andrei Cuceu
Date of reading: 09/2021
- 6** **Project title:** Effect of massive neutrinos on the large scale structure of the Universe
Type of project: Doctoral thesis
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: Christian Pedersen
Date of reading: 07/2021



- 7** **Project title:** Towards precision measurements of large-scale structure with next-generation spectroscopic surveys
Type of project: Doctoral thesis
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: James Farr
Date of reading: 01/2021
- 8** **Project title:** Modelling the Power Spectrum of the Lyman alpha Forest Flux Transmission for the Detection of Baryon Acoustic Oscillations
Type of project: Minor thesis
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: Louise Seeyave
Obtained qualification: MSci in Astrophysics
Date of reading: 06/2020
- 9** **Project title:** Bandpower Measurement and Cosmological Parameter Estimation Using GAMA, KiDS-450 and KV-450 Data
Type of project: Minor thesis
Co-director of thesis: Benjamin Joachimi; Andreu Font-Ribera
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: James Rice
Obtained qualification: MSc in Astrophysics
Date of reading: 09/2018
- 10** **Project title:** Machine learning methods for quasar identification
Type of project: Minor thesis
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: landeep Hothi
Obtained qualification: MSci in Astrophysics
Date of reading: 09/2018
- 11** **Project title:** Tunneling through the landscape: Bubble nucleation and the expansion of the early universe
Type of project: Minor thesis
Co-director of thesis: Jonathan Braden; Andreu Font-Ribera
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: Emily Fowler
Obtained qualification: MSc in Astrophysics
Date of reading: 09/2018
- 12** **Project title:** Estimating quasar redshifts from spectroscopic data
Type of project: Minor thesis
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: Fraser Kennedy
Obtained qualification: MSc in Astrophysics
Date of reading: 04/2018



- 13** **Project title:** Reversing Gravitational Collapse
Type of project: Minor thesis
Co-director of thesis: Andrew Pontzen; Andreu Font-Ribera
Entity: University College London **Type of entity:** University
City of entity: London, Inner London, United Kingdom
Student: Andrei Cuceu
Obtained qualification: MSci in Astrophysics
Date of reading: 04/2018
- 14** **Project title:** The Lyman Alpha Forest 1D Power Spectrum from the Baryon Oscillation Spectroscopic Survey
Type of project: Doctoral thesis
Co-director of thesis: Scott Anderson; Patrick McDonald; Andreu Font Ribera
Entity: University of Washington
City of entity: Seattle, United States of America
Student: Vaishali Bhardwaj
Date of reading: 08/2015

Other activities/achievements not included above

- 1** **Description of the activity:** Mentoring of Andrea Muñoz, graduate student with Prof. Axel de la Macorra. Ongoing work will led in a publication "Metal absorption in the Lyman alpha forest".
Identify key words: Structures of great scale
City of activity: Ciudad de México, Mexico
Organising entity: Universidad Nacional Autónoma de México **Type of entity:** University
End date: 2019
- 2** **Description of the activity:** Mentoring of Oleg Burgueño, graduate student with Dr. Alma González. Ongoing work will led in a publication "Non-linear broadening of BAO in the Lyman alpha forest".
Identify key words: Structures of great scale
City of activity: Leon, Mexico
Organising entity: Universidad de Guanajuato
End date: 2019
- 3** **Description of the activity:** Mentoring of Ignasi Pérez-Ràfols, graduate student with Prof. Jordi Miralda-Escudé. Research led to "The SDSS-DR12 large-scale cross-correlation of Damped Lyman Alpha Systems with the Lyman Alpha Forest" (Perez-Rafols et al. 2017).
Identify key words: Structures of great scale
Organising entity: Universitat de Barcelona **Type of entity:** University
End date: 2017
- 4** **Description of the activity:** Mentoring of Keir Rogers, graduate student with Prof. Hiranya Peiris. Research led to "Simulating the effect of high column density absorbers on the one-dimensional Lyman-alpha forest flux power spectrum" (Rogers et al. 2018a) and "Correlations in the three-dimensional Lyman-alpha forest contaminated by high column density absorbers" (Rogers et al. 2018b)
Identify key words: Structures of great scale
Organising entity: University College London **Type of entity:** University
End date: 2017



- 5 Description of the activity:** Mentoring of Satya Goncho a Goncho, graduate student with Prof. Jordi Miralda-Escudé. Research led to "Quasar – CIV forest cross-correlation with BOSS DR12" (Gontcho a Gontcho et al. 2018).
Identify key words: Structures of great scale
Organising entity: Universitat de Barcelona **Type of entity:** University
End date: 2017
- 6 Description of the activity:** Mentoring of Casey Stark, graduate student with Prof. Martin White. Research led to the publication Finding High-Redshift Voids Using Lyman-alpha Forest Tomography (Stark, Font-Ribera, White & Lee, 2015), also included in his PhD thesis.
Identify key words: Structures of great scale
Organising entity: University of California at Berkeley **Type of entity:** University
End date: 06/2015
- 7 Description of the activity:** Mentoring of Xinkang Wang, undergraduate student with Prof. Uros Seljak. Research led to the publication Optimizing BAO measurements with non-linear transformations of the Lyman-alpha forest (Wang, Font-Ribera & Seljak 2015)
Identify key words: Structures of great scale
Organising entity: University of California at Berkeley **Type of entity:** University
End date: 04/2015
- 8 Description of the activity:** Mentoring of Eduard Arnau, M.Sc. student. Research resulted in a master thesis and two publications: Font-Ribera, Miralda-Escudé, Arnau et al. (2012) and Font-Ribera, Arnau et al. (2013).
Identify key words: Structures of great scale
Organising entity: Universitat de Barcelona **Type of entity:** University
End date: 09/2011

Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** CosmoParticle Initiative
Name of principal investigator: Hiranya Peiris
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: University College London **Type of entity:** University
Relevant results: 19 publications (<https://www.ucl.ac.uk/cosmoparticle/research/publications>)
Start date: 09/2017 **Duration:** 5 years
- 2 Name of the group:** Lyman-alpha Working Group of the Dark Energy Spectroscopic Instrument
Aims of the group: Data analysis of the DESI cosmological dataset
Name of principal investigator: Andreu Font-Ribera **Number of members in the group:** 50
Type of collaboration: Co-authorship of international collaboration
City of group: Berkeley, United States of America
Affiliation entity: Lawrence Berkeley National Lab **Type of entity:** Public Research Body
Relevant results: Preparation and simulations for the DESI survey, starting in 2020.
Others: I am co-chair of the working group since 2017.
Identify key words: Structures of great scale
Start date: 01/01/2015 **Duration:** 10 years



- 3** **Name of the group:** COSMOS Lyman-Alpha Mapping And Tomography Observations (CLAMATO) survey
Aims of the group: Map the cosmic web at $z=2.3$, at over 11 billion light years away when the Universe was less than a quarter its current age, using the LRIS spectrograph on the Keck-I telescope.
Name of principal investigator: Khee Gan Lee **Number of members in the group:** 10
Type of collaboration: Co-authorship of international collaboration
City of group: Tokyo, Japan
Affiliation entity: Institute of Physics and Mathematics of the Universe **Type of entity:** Public Research Body
Relevant results: 4 publications using CLAMATO data: A Detection of $z\sim 2.3$ Cosmic Voids from 3D Lyman- α Forest Tomography in the COSMOS Field (Krolewski et al. 2018), First Data Release of the COSMOS Lyman-Alpha Mapping And Tomography Observations: 3D Lyman- α Forest Tomography at $2.05 < z < 2.55$ (Lee et al. 2018), Shadow Of a Colossus: A $z = 2.44$ Galaxy Protocluster Detected In 3D Ly α Forest Tomographic Mapping Of The COSMOS Field (Lee et al. 2016), Ly α Forest Tomography From Background Galaxies (Lee et al. 2014)
Others: 17 nights awarded at the Keck-I telescope at Maunakea, Hawai'i.
Identify key words: Structures of great scale
Start date: 01/01/2014 **Duration:** 6 years
- 4** **Name of the group:** Lyman-alpha Working Group of the eBOSS
Aims of the group: Data analysis of the SDSS-IV / eBOSS cosmological dataset
Name of principal investigator: Andreu Font-Ribera **Number of members in the group:** 30
Type of collaboration: Co-authorship of international collaboration
City of group: Berkeley, United States of America
Affiliation entity: Lawrence Berkeley National Lab
Number of directed thesis: 5 **Number of directed postdoc:** 5
Relevant results: State of the art measurements of BAO.
Others: I was co-chair of the working group from 2013 to 2015.
Identify key words: Structures of great scale
Start date: 01/01/2013 **Duration:** 6 years
- 5** **Name of the group:** Berkeley Center For Cosmological Physics
Aims of the group: Understanding the origin and evolution of the universe through a series of programs to define the observations, experiments, concepts, and simulations needed to answer the fundamental questions in cosmology.
Name of principal investigator: Saul Perlmutter
Type of collaboration: Co-authorship of publications
Affiliation entity: University California Berkeley **Type of entity:** University
Start date: 10/2011 **Duration:** 5 years
- 6** **Name of the group:** Institute for Nuclear and Particle Astrophysics (INPA)
Aims of the group: Unites research in astrophysics – including solar neutrinos, cosmic rays, dark matter, supernovae, cosmic background radiation and theoretical astrophysics.
Type of collaboration: Co-authorship of publications
Affiliation entity: Lawrence Berkeley National Lab
Start date: 10/2011 **Duration:** 5 years
- 7** **Name of the group:** Lyman-alpha Working Group of the BOSS collaboration
Aims of the group: Data analysis of the SDSS-III / BOSS cosmological dataset
Name of principal investigator: Andreu Font-Ribera **Number of members in the group:** 40
Type of collaboration: Co-authorship of international collaboration
City of group: Berkeley, United States of America
Affiliation entity: Lawrence Berkeley National Laboratory **Type of entity:** Public Research Body



Number of directed thesis: 15

Number of directed postdoc: 10

Relevant results: First detection of BAO at high redshift, allowed a 2% measurement of the expansion of the young Universe, 11 billion years ago.

Others: I was co-chair of the working group from 2012 to 2017.

Identify key words: Structures of great scale

Start date: 01/01/2009

Duration: 9 years

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1 Name of the project:** Dark Energy Spectroscopic Instrument
Entity where project took place: Lawrence Berkeley National Laboratory
City of entity: Berkeley, United States of America
N° of researchers: 300
Funding entity or bodies:
Department of Energy **Type of entity:** State agency
City funding entity: Washington DC, United States of America
Start-End date: 01/01/2013 - 31/12/2025
Total amount: 80.000.000 €
- 2 Name of the project:** Precision cosmology at high redshift with the Lyman-alpha forest
Identify key words: Estadísticas de cumulos [eng]; Structures of great scale; Primitive universe
Identify key words: Estadísticas de cumulos [eng]; Structures of great scale; Primitive universe
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** European Union
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: University College London **Type of entity:** University
City of entity: London, United Kingdom
Name principal investigator (PI, Co-PI...): Andreu Font Ribera
N° of researchers: 1 **Nª people/year:** 1
Funding entity or bodies:
Science and Technology Facility Council (STFC) **Type of entity:** State agency
City funding entity: Swindon, United Kingdom
Type of participation: Principal investigator
Name of the programme: Ernest Rutherford Fellowships 2015
Code according to the funding entity: ST/N003853/1
Start-End date: 01/10/2016 - 30/09/2021 **Duration:** 5 years
Total amount: 600.000 € **Sub-project amount:** 600.000 €
Relevant results: Publications: Font-Ribera et al. (2018), Rogers et al. (2018a), Rogers et al. (2018b), Villaescusa-Navarro et al. (2018) and three more publications under refereeing process.
Dedication regime: Full time
Applicant's contribution: PI of the grant, that is used to pay my salary, computing and travel expenses for five years.



3 Name of the project: The large-scale Lyman- α forest as a new probe of the sources of H and He reionisation

Entity where project took place: University College London **Type of entity:** University

City of entity: London, United Kingdom

Name principal investigator (PI, Co-PI....): Andrew Pontzen; Andreu Font Ribera; Hiranya Peiris

N° of researchers: 3

Funding entity or bodies:

Science and Technology Facility Council (STFC)

Type of entity: State agency

City funding entity: Swindon, United Kingdom

Start-End date: 01/04/2018 - 31/03/2021

Total amount: 1.500.000 €

Sub-project amount: 180.000 €

Applicant's contribution: Co-I of the project, funded by STFC as part of the UCL Astrophysics Consolidated Grant 2018-2021 (ST/J000476/1).

4 Name of the project: DiRAC HPC proposal, Constraining inflation and neutrino masses with the Dark Energy Spectroscopic Instrument (4.5M CPU hours)

Identify key words: Estadísticas de cumulos [eng]; Structures of great scale; Primitive universe

Identify key words: Estadísticas de cumulos [eng]; Structures of great scale; Primitive universe

Type of project: Basic research (including archaeological digs, etc)

Geographical area: European Union

Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: University College London **Type of entity:** University

City of entity: London, United Kingdom

Name principal investigator (PI, Co-PI....): Andreu Font-Ribera; Chris Pedersen; Andrew Pontzen; Hiranya Peiris; Keir Rogers; Patrick McDonald; Anze Slosar; Tom Kitching

Funding entity or bodies:

Distributed Research using Advanced Computing (DiRAC)

Type of entity: Public Research Body

Type of participation: Principal investigator

Start-End date: 01/04/2019 - 31/03/2020

Duration: 1 year

Applicant's contribution: PI of the allocation, used by my PhD student Chris Pedersen to generate theoretical models for the Dark Energy Spectroscopic Instrument (DESI)

5 Name of the project: Sloan Digital Sky Survey - IV

Entity where project took place: New York University

City of entity: New York, United States of America

Name principal investigator (PI, Co-PI....): Michael Blanton

N° of researchers: 200

Funding entity or bodies:

Alfred Sloan Foundation

Type of entity: Foundation

City funding entity: New York, United States of America

Start-End date: 01/06/2012 - 01/06/2019

Total amount: 50.000.000 €

6 Name of the project: DiRAC HPC proposal, Modelling neutrino masses for DESI (460k core hours)

Identify key words: Estadísticas de cumulos [eng]; Structures of great scale; Primitive universe

Identify key words: Estadísticas de cumulos [eng]; Structures of great scale; Primitive universe

Type of project: Basic research (including archaeological digs, etc)

Geographical area: European Union



Degree of contribution: Coordinator of total project, network or consortium

Entity where project took place: University College London **Type of entity:** University

City of entity: London, United Kingdom

Name principal investigator (PI, Co-PI....): Andreu Font-Ribera; Simeon Bird; Yu Feng; Andrew Pontzen; Tom Kitching; Patrick McDonald; Anze Slosar

Nº of researchers: 7

Funding entity or bodies:

Distributed Research using Advanced Computing (DiRAC) **Type of entity:** Public Research Body

Type of participation: Principal investigator

Start-End date: 01/04/2018 - 31/03/2019 **Duration:** 1 year

Applicant's contribution: PI of the allocation, that is being used by my PhD student Chris Pedersen to study the effect of neutrino masses in the distribution of mass in the Universe.

7 Name of the project: Sloan Digital Sky Survey - III

Entity where project took place: Harvard University **Type of entity:** University

City of entity: Cambridge, United States of America

Name principal investigator (PI, Co-PI....): Daniel Eisenstein

Nº of researchers: 200

Funding entity or bodies:

Alfred Sloan Foundation **Type of entity:** Foundation

City funding entity: New York, United States of America

Start-End date: 01/01/2008 - 30/12/2015

Total amount: 55.000.000 €

8 Name of the project: Fluctuaciones primordiales y física de cuásares con 100.000 espectros de cuásares

Type of project: Basic research (including archaeological digs, etc)

Entity where project took place: Institut d'Estudis Espacials de Catalunya (IEEC) **Type of entity:** Public Research Body

City of entity: Barcelona, Catalonia, Spain

Name principal investigator (PI, Co-PI....): Jordi Miralda Escudé; Andreu Font Ribera; Andreu Arinyo Prats

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Ciencia e Innovación **Type of entity:** Plan Nacional I+D+i

City funding entity: Madrid, Community of Madrid, Spain

Code according to the funding entity: AYA2009-09745

Start-End date: 2009 - 2012 **Duration:** 3 years

Total amount: 70.000 €

9 Name of the project: SNF project 200021-116696/1

Entity where project took place: Institute of Theoretical Physics **Type of entity:** University Research Institute

City of entity: Zurich, Switzerland

Name principal investigator (PI, Co-PI....): Uros Seljak

Funding entity or bodies:

Schweizerischer Nationalfonds (SNF) **Type of entity:** State agency

City funding entity: Bern, Switzerland

Start date: 2011



Scientific and technological activities

Scientific production

H index: 44

Date of application: 09/01/2021

Fuente de Índice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** Christian Pedersen; Andreu Font-Ribera; et al.. An emulator for the Lyman- α forest in beyond- Λ CDM cosmologies. eprint arXiv:2011.15127. 11/2020.
Type of production: Scientific paper **Format:** Journal
- 2** J. Farr; A. Font-Ribera; A. Pontzen. Optimal strategies for identifying quasars in DESI. Journal of Cosmology and Astroparticle Physics. 11 - 15, 11/2020.
Type of production: Scientific paper **Format:** Journal
- 3** H. du Mas des Bourboux; J Rich; A. Font-Ribera; et al.. The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Baryon acoustic oscillations with Lyman- α forests. The Astrophysical Journal. 901 - 2, 10/2020.
Type of production: Scientific paper **Format:** Journal
- 4** N. Karacayli; A. Font-Ribera; N. Padmanabhan. Optimal 1D Ly α forest power spectrum estimation - I. DESI-lite spectra. Monthly Notices of the Royal Astronomical Society, . 497 - 4, pp. 4742 - 4752. 08/2020.
Type of production: Scientific paper **Format:** Journal
- 5** A. Cuceu; A. Font-Ribera; B. Joachimi. Bayesian methods for fitting Baryon Acoustic Oscillations in the Lyman- α forest. Journal of Cosmology and Astroparticle Physics. 07 - 035, 07/2020.
Type of production: Scientific paper **Format:** Journal
- 6** eBOSS Collaboration; et al. including A. Font-Ribera. The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Cosmological Implications from two Decades of Spectroscopic Surveys at the Apache Point observatory. eprint arXiv:2007.08991. 07/2020.
Type of production: Scientific paper **Format:** Journal
- 7** S. Bird; Y. Feng; C. Pedersen; A. Font-Ribera. More accurate simulations with separate initial conditions for baryons and dark matter. Journal of Cosmology and Astroparticle Physics. 06 - 002, 06/2020.
Type of production: Scientific paper **Format:** Journal
- 8** C. Pedersen; A. Font-Ribera; et al.. Massive neutrinos and degeneracies in Lyman-alpha forest simulations. Journal of Cosmology and Astroparticle Physics. 04 - 025, 04/2020.
Type of production: Scientific paper **Format:** Journal
- 9** J. Farr; A. Font-Ribera; et al.. LyaCoLoRe: synthetic datasets for current and future Lyman- α forest BAO surveys. Journal of Cosmology and Astroparticle Physics. 03 - 068, 03/2020.
Type of production: Scientific paper **Format:** Journal



- 10** K. Naidoo; et al. including A. Font-Ribera. Beyond two-point statistics: using the minimum spanning tree as a tool for cosmology. Monthly Notices of the Royal Astronomical Society. 491 - 2, 01/2020.
Type of production: Scientific paper **Format:** Journal
- 11** A. Cuceu; J. Farr; P. Lemos; A. Font-Ribera. Baryon Acoustic Oscillations and the Hubble constant: past, present and future. Journal of Cosmology and Astroparticle Physics. 10 - 044, 10/2019.
Type of production: Scientific paper **Format:** Journal
- 12** V. de Sainte Agathe; 19 authors including A.Font-Ribera. Baryon acoustic oscillations at $z = 2.34$ from the correlations of Ly α absorption in eBOSS DR14. Astronomy & Astrophysics. 629 - A85, 09/2019.
Type of production: Scientific paper **Format:** Journal
- 13** M. Blomqvist; 18 authors including A.Font-Ribera. Baryon acoustic oscillations from the cross-correlation of Ly α absorption and quasars in eBOSS DR14. Astronomy & Astrophysics. 629 - A86, 09/2019.
Type of production: Scientific paper **Format:** Journal
- 14** S. Chabanier; 18 authors including A.Font-Ribera. The one-dimensional power spectrum from the SDSS DR14 Ly-alpha forests. Journal of Cosmology and Astroparticle Physics. 07 - 017, 07/2019.
Type of production: Scientific paper **Format:** Journal
- 15** Cora Dvorkin; et al. including A.Font-Ribera. Neutrino Mass from Cosmology: Probing Physics Beyond the Standard Model. eprint arXiv:1903.03689. 05/2019.
Type of production: Scientific paper **Format:** Journal
- 16** A. Dey et al.; Over 60 authors including A.Font-Ribera. Overview of the DESI Legacy Imaging Surveys. The Astronomical Journal. 157 - 5, 05/2019.
Type of production: Scientific paper **Format:** Journal
- 17** The MSE Science Team; et al. including A.Font-Ribera. The Detailed Science Case for the Maunakea Spectroscopic Explorer. eprint arXiv:1904.04907. 04/2019.
Type of production: Scientific paper **Format:** Journal
- 18** W. Percival; et al. including A.Font-Ribera. Cosmology with the MaunaKea Spectroscopic Explorer. eprint arXiv:1903.03158. 03/2019.
Type of production: Scientific paper **Format:** Journal
- 19** Simeon Bird; Keir Rogers; Hiranya Peiris; Licia Verde; Andreu Font-Ribera; Andrew Pontzen. An Emulator for the Lyman-alpha Forest. Journal of Cosmology and Astroparticle Physics. Issue 02 - 50, 02/2019.
Type of production: Scientific paper **Format:** Journal
- 20** Keir Rogers; Hiranya Peiris; Andrew Pontzen; Simeon Bird; Licia Verde; Andreu Font-Ribera. Bayesian emulator optimisation for cosmology: application to the Lyman-alpha forest. Journal of Cosmology and Astroparticle Physics. 02 - 031, 02/2019.
Type of production: Scientific paper **Format:** Journal
- 21** Lauren Anderson; Andrew Pontzen; Andreu Font-Ribera; Francisco Villaescusa-Navarro; Keir Rogers; Shy Genel. Cosmological Hydrodynamic Simulations with Suppressed Variance in the Lyman-alpha Forest Power Spectrum. The Astrophysical Journal. 871 - 2, 02/2019.
Type of production: Scientific paper **Format:** Journal



- 22** Francisco Villaescusa-Navarro; Sigurd Naess; Shy Genel; Andrew Pontzen; Benjamin Wandelt; Lauren Anderson; Andreu Font-Ribera; Keir Rogers; Nicholas Battaglia; David Spergel. Statistical Properties of Paired Fixed Fields. *The Astrophysical Journal*. 867 - 2, 11/2018.
Type of production: Scientific paper **Format:** Journal
- 23** Ignasi Perez-Rafols; Jordi Miralda-Escudé; Andreu Arinyo-i-Prats; Andreu Font-Ribera; Lluís Mas-Ribas. The cosmological bias factor of damped Lyman alpha systems: dependence on metal line strength. *Monthly Notices of the Royal Astronomical Society*. 480 - 4, pp. 4702 - 4709. 11/2018.
Type of production: Scientific paper **Format:** Journal
- 24** Satya Gontcho A Gontcho; Jordi Miralda Escudé; Andreu Font-Ribera; et al.. Quasar -- CIV forest cross-correlation with SDSS DR12. *Monthly Notices of the Royal Astronomical Society*. 480 - 1, pp. 610 - 622. 10/2018.
Type of production: Scientific paper
- 25** K.G. Lee et al.; Over 20 authors including A.Font-Ribera. First Data Release of the COSMOS Lyman-Alpha Mapping And Tomography Observations: 3D Lyman- α Forest Tomography at $2.05 < z < 2.55$. *The Astrophysical Journal Supplement Series*. 237 - 2, 08/2018.
Type of production: Scientific paper
- 26** Keir Rogers et al.; 5 co-authors including A.Font-Ribera. Correlations in the three-dimensional Lyman-alpha forest contaminated by high column density absorbers. *Monthly Notices of the Royal Astronomical Society*. 476 - 3, pp. 3716 - 3728. 05/2018.
Type of production: Scientific paper
- 27** David Alonso; Joseph Colosimo; Andreu Font-Ribera; Anze Slosar. Bias of Damped Lyman- α systems from their cross-correlation with CMB lensing. *Journal of Cosmology and Astroparticle Physics*. 4 - 053, 04/2018.
Type of production: Scientific paper
- 28** Bela Abolfathi et al.; Over 100 authors including A.Font-Ribera. The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the extended Baryon Oscillation Spectroscopic Survey and from the second phase of the Apache Point Observatory Galactic Evolution Experiment. *The Astrophysical Journal Supplement Series*. 235 - 2, 04/2018.
Type of production: Scientific paper
- 29** Keir Rogers et al.; 5 co-authors including A.Font-Ribera. Simulating the effect of high column density absorbers on the one-dimensional Lyman-alpha forest flux power spectrum. *Monthly Notices of the Royal Astronomical Society*. 474 - 3, pp. 3032-3042. 03/2018.
Type of production: Scientific paper
- 30** Andreu Font-Ribera; Patrick McDonald; Anze Slosar. How to estimate the 3D power spectrum of the Lyman- α forest. *Journal of Cosmology and Astroparticle Physics*. 1 - 003, 01/2018.
Type of production: Scientific paper
- 31** Ignasi Perez-Rafols; Andreu Font-Ribera; and 10 co-authors. The SDSS-DR12 large-scale cross-correlation of damped Lyman alpha systems with the Lyman alpha forest. *Monthly Notices of the Royal Astronomical Society*. 473 - 3, pp. 3019 - 3038. 01/2018.
Type of production: Scientific paper
- 32** Helion du Mas des Bourboux et al.; Over 20 authors including A.Font-Ribera. Baryon acoustic oscillations from the complete SDSS-III Ly α -quasar cross-correlation function at $z = 2.4$. *Astronomy & Astrophysics*. 608 - 130, pp. 22. 12/2017.
Type of production: Scientific paper



- 33** Franco Albareti et al.; Over 100 authors including A.Font-Ribera. The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. The Astrophysical Journal Supplement Series. 233 - 2, pp. 25 - 3430. 12/2017.
Type of production: Scientific paper
- 34** Michael Blanton et al.; Over 100 authors including A.Font-Ribera. Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. The Astronomical Journal. 154 - 1, pp. 35 - 3430. 07/2017.
Type of production: Scientific paper
- 35** Julian Bautista et al.; Over 20 authors including A.Font-Ribera. Measurement of baryon acoustic oscillation correlations at $z = 2.3$ with SDSS DR12 Ly α -Forests. Astronomy & Astrophysics. 603 - 12, pp. 23. 06/2017.
Type of production: Scientific paper
- 36** Chia-Hsun Chuang et al.; 7 authors including A.Font-Ribera. Linear redshift space distortions for cosmic voids based on galaxies in redshift space. Physical Review D. 95 - 6, 03/2017.
Type of production: Scientific paper
- 37** Isabelle Paris et al.; Over 50 authors including A.Font-Ribera. The Sloan Digital Sky Survey Quasar Catalog: twelfth data release. Astronomy & Astrophysics. 597 - 79, pp. 25. 01/2017.
Type of production: Scientific paper
- 38** Florian Beutler et al.; Over 20 authors including A.Font-Ribera. The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the Fourier space. Monthly Notices of the Royal Astronomical Society. 464 - 3, pp. 3409 - 3430. 01/2017.
Type of production: Scientific paper
- 39** Cassandra Lochhaas et al.; 9 authors including A.Font-Ribera. Modeling Lyman-alpha Forest Cross-Correlations with LyMAS. Monthly Notices of the Royal Astronomical Society. 461 - 4, pp. 4353 - 4373. 10/2016.
Type of production: Scientific paper
- 40** DESI Collaboration et al.; Over 100 authors including A.Font-Ribera. The DESI Experiment Part I: Science, Targeting, and Survey Design. eprint arXiv:1611.00036. 10/2016.
Type of production: Scientific paper
- 41** DESI Collaboration et al.; Over 100 authors including A.Font-Ribera. The DESI Experiment Part II: Instrument Design. eprint arXiv:1611.00037. 10/2016.
Type of production: Scientific paper
- 42** Rupert Croft et al.; 28 authors including A.Font-Ribera. Large-scale clustering of Lyman-alpha emission intensity from SDSS/BOSS. Monthly Notices of the Royal Astronomical Society. 457 - 4, pp. 3541 - 3572. 04/2016.
Type of production: Scientific paper
- 43** Khee-Gan Lee et al.; 13 authors including A.Font-Ribera number 5. Shadow of a Colossus: A $z=2.45$ Galaxy Protocluster Detected in 3D Ly-alpha Forest Tomographic Mapping of the COSMOS Field. The Astrophysical Journal. 817 - 2, pp. 16. 02/2016.
Type of production: Scientific paper
- 44** Kyle Dawson et al.; over 100 authors including A.Font-Ribera. The SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Overview and Early Data. The Astronomical Journal. 151 - 2, pp. 34. 02/2016.
Type of production: Scientific paper

- 45** Eric Aubourg et al.; 93 authors including A.Font-Ribera. Cosmological implications of baryon acoustic oscillation (BAO) measurements. Physical Review D. 92 - 12, 12/2015.
Type of production: Scientific paper
- 46** Michael Blomqvist; 11 authors including A.Font-Ribera. Broadband distortion modeling in Lyman-alpha forest BAO fitting. Journal of Cosmology and Astroparticle Physics. 11 - 034, 11/2015.
Type of production: Scientific paper
- 47** Sarah Eftekharzadeh et al.; 10 authors including A.Font-Ribera. Clustering of intermediate redshift quasars using the final SDSS III-BOSS sample. Monthly Notices of the Royal Astronomical Society. 453 - 3, 11/2015.
Type of production: Scientific paper
- 48** Casey Stark; Andreu Font-Ribera; Martin White; Khee-Gan Lee. Finding high-redshift voids using Lyman alpha forest tomography. Monthly Notices of the Royal Astronomical Society. 453 - 4, 11/2015.
Type of production: Scientific paper
- 49** Shadab Alam et al.; over 200 authors including A.Font-Ribera. The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III. The Astrophysical Journal Supplement Series. 219 - 1, 07/2015.
Type of production: Scientific paper
- 50** Julian Bautista et al.; 18 authors; A.Font-Ribera number 3. Mock Quasar-Lyman-alpha Forest Data-sets for the SDSS-III Baryon Oscillation Spectroscopic Survey. Journal of Cosmology and Astroparticle Physics. 05 - 060, 05/2015.
Type of production: Scientific paper
- 51** Xinkang Wang; Andreu Font-Ribera; Uros Seljak. Optimizing BAO measurements with non-linear transformations of the Lyman-alpha forest. Journal of Cosmology and Astroparticle Physics. 04 - 009, 04/2015.
Type of production: Scientific paper
- 52** Timothee Delubac et al.; 37 authors; A. Font-Ribera number 7. Baryon Acoustic Oscillations in the Ly-alpha forest of BOSS DR11 quasars. Astronomy & Astrophysics. 574 - A59, 02/2015.
Type of production: Scientific paper **Format:** Journal
- 53** F. Beutler et al.; 18 authors including A. Font-Ribera. The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Testing gravity with redshift-space distortions using the power spectrum multipoles. Monthly Notices of the Royal Astronomical Society. 443 - 2, pp. 1065 - 1089. 09/2014.
Type of production: Scientific paper **Format:** Journal
- 54** A. Font-Ribera; P. McDonald; N. Mostek; B. Reid; H-J. Seo; A. Slosar. DESI and other dark energy experiments in the era of neutrino mass measurements. Journal of Cosmology and Astroparticle Physics. 5 - 23, 05/2014.
Type of production: Scientific paper **Format:** Journal
- 55** A. Font-Ribera et al.; 42 authors. Quasar-Lyman alpha Forest Cross-Correlation from BOSS DR11 : Baryon Acoustic Oscillations. Journal of Cosmology and Astroparticle Physics. 5 - 27, 05/2014.
Type of production: Scientific paper **Format:** Journal
- 56** I. Paris et al.; 50 authors including A. Font-Ribera. The Sloan Digital Sky Survey quasar catalog: tenth data release. Astronomy and Astrophysics. 563 - A54, 03/2014.
Type of production: Scientific paper **Format:** Journal



- 57** M. Viero et al.; 39 authors including A. Font-Ribera. The Herschel Stripe 82 Survey (HerS): Maps and Early Catalog. *Astrophysical Journal Supplement*,. 210, 02/2014.
Type of production: Scientific paper **Format:** Journal
- 58** N. Palanque-Delabrouille et al.; 36 authors including A. Font-Ribera. The one-dimensional Ly-alpha forest power spectrum from BOSS. *Astronomy and Astrophysics*,. 559, 11/2013.
Type of production: Scientific paper **Format:** Journal
- 59** V. Irsic et al.; 16 authors; A. Font-Ribera number 5. Detection of Ly-beta auto-correlations and Ly-alpha-Ly-beta cross-correlations in BOSS Data Release 9. *Journal of Cosmology and Astroparticle Physics*,. 9, 09/2013.
Type of production: Scientific paper **Format:** Journal
- 60** C. Ahn et al.; 235 authors including A. Font-Ribera. The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment. *Astrophysical Journal Supplement*. 211 - 2, 07/2013.
Type of production: Scientific paper **Format:** Journal
- 61** A. Font-Ribera et al.; 15 authors. The large-scale quasar-Lyman alpha forest cross-correlation from BOSS. *Journal of Cosmology and Astroparticle Physics*,. 5, 05/2013.
Type of production: Scientific paper **Format:** Journal
- 62** N. Busca et al.; 62 authors; A. Font-Ribera number 5. Baryon Acoustic Oscillations in the Lyman- α forest of BOSS quasars. *Astronomy and Astrophysics*, Volume 552. 04/2013.
Type of production: Scientific paper **Format:** Journal
- 63** A. Slosar et al.; 45 authors including A. Font-Ribera. Measurement of baryon acoustic oscillations in the Lyman-alpha forest fluctuations in BOSS data release 9. *Journal of Cosmology and Astroparticle Physics*,. 4, 04/2013.
Type of production: Scientific paper **Format:** Journal
- 64** D. Kirkby et al.; 26 authors including A. Font-Ribera. Fitting methods for baryon acoustic oscillations in the Lyman-alpha forest fluctuations in BOSS data release 9. *Journal of Cosmology and Astroparticle Physics*,. 3, 03/2013.
Type of production: Scientific paper **Format:** Journal
- 65** K.-G. Lee et al.; 53 authors including A. Font-Ribera. The BOSS Ly-alpha Forest Sample from SDSS Data Release 9. *Astronomical Journal*,. 145, 03/2013.
Type of production: Scientific paper **Format:** Journal
- 66** K. Dawson et al.; 165 authors including A. Font-Ribera. The Baryon Oscillation Spectroscopic Survey of SDSS-III. *Astronomical Journal*,. 145, 01/2013.
Type of production: Scientific paper **Format:** Journal
- 67** C. Ahn et al.; 236 authors including A. Font-Ribera. The Ninth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Baryon Oscillation Spectroscopic Survey. *Astrophysical Journal Supplement*,. 203, 12/2012.
Type of production: Scientific paper **Format:** Journal
- 68** I. Paris et al.; 76 authors including A. Font-Ribera. The Sloan Digital Sky Survey quasar catalog: ninth data release. *Astronomy and Astrophysics*,. 548, 12/2012.
Type of production: Scientific paper **Format:** Journal



- 69** A. Font-Ribera et al.; 15 authors. The large-scale cross-correlation of Damped Lyman alpha systems with the Lyman alpha forest: first measurements from BOSS. *Journal of Cosmology and Astroparticle Physics*,. 11, 11/2012.
Type of production: Scientific paper **Format:** Journal
- 70** P. Noterdaeme et al.; 22 authors; A. Font-Ribera number 5. Column density distribution and cosmological mass density of neutral gas: Sloan Digital Sky Survey-III Data Release 9. *Astronomy and Astrophysics*,. 547, 09/2012.
Type of production: Scientific paper **Format:** Journal
- 71** A. Font-Ribera; J. Miralda-Escudé. The effect of high column density systems on the measurement of the Lyman-alpha forest correlation function. *Journal of Cosmology and Astroparticle Physics*,. 7, 07/2012.
Type of production: Scientific paper **Format:** Journal
- 72** A. Font-Ribera; P. McDonald; J. Miralda-Escudé. Generating mock data sets for large-scale Lyman-alpha forest correlation measurements. *Journal of Cosmology and Astroparticle Physics*,. 1, 01/2012.
Type of production: Scientific paper **Format:** Journal
- 73** D. Eisenstein et al.; 244 authors including A. Font-Ribera. SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way, and Extra-Solar Planetary Systems. *Astronomical Journal*,. 142, 09/2011.
Type of production: Scientific paper **Format:** Journal
- 74** A. Slosar et al.; 37 authors; A. Font-Ribera number 2. The Lyman-alpha forest in three dimensions: measurements of large scale flux correlations from BOSS 1st-year data. *Journal of Cosmology and Astroparticle Physics*,. 9, 09/2011.
Type of production: Scientific paper **Format:** Journal
- 75** H. Aihara et al.; 180 authors including A. Font-Ribera. The Eighth Data Release of the Sloan Digital Sky Survey: First Data from SDSS-III. *Astrophysical Journal Supplement*,. 193, 04/2011.
Type of production: Scientific paper **Format:** Journal
- 76** A. Marín-Franch; A. Herrero; A. Lenorzer; F. Najarro; S. Ramírez; A. Font-Ribera; D. Figer. The stellar population of the star-forming region G61.48+0.09. *Astronomy and Astrophysics*,. 502, pp. 559 - 567. 08/2009.
Type of production: Scientific paper **Format:** Journal
- 77** A. Font-Ribera; J. Miralda-Escudé; I. Ribas. Protostellar Cloud Fragmentation and Inward Migration by Disk Capture as the Origin of Massive Exoplanets. *Astrophysical Journal*,. 694., pp. 183 - 191. 03/2009.
Type of production: Scientific paper **Format:** Journal
- 78** I. Ribas; A. Font-Ribera; J.P. Beaulieu. A ~ 5 M_{earth} Super-Earth Orbiting GJ 436? The Power of Near-Grazing Transits. *The Astrophysical Journal Letters*,. 667., pp. 59 - 62. 04/2008.
Type of production: Scientific paper **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: ETH Astronomy Seminar
City of event: Zurich (remote), Switzerland
Date of event: 10/2020
Organising entity: ETH Zurich
Andreu Font-Ribera.



- 2** **Title of the work:** Final cosmology results from the Sloan Digital Sky Survey
Name of the conference: IFAE Pizza Seminar
City of event: Bcelona (remote), Spain
Date of event: 07/2020
Organising entity: Laboratori de Llum de Sincrotró
Andreu Font-Ribera.
- 3** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Astronomy Seminar
City of event: Beijing (remote), China
Date of event: 03/2020
Organising entity: Tsinghua University
Andreu Font-Ribera.
- 4** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: TTK Seminar
City of event: Aachen, Germany
Date of event: 01/2020
Organising entity: Aachen University
Andreu Font-Ribera. **Type of entity:** University
- 5** **Title of the work:** Neutrinos in the Lyman- α forest
Name of the conference: Berkeley DESI Lunch
City of event: Berkeley, United States of America
Date of event: 10/2019
Organising entity: Lawrence Berkeley National Lab
Andreu Font-Ribera. **Type of entity:** Public Research Body
- 6** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: ICE Seminar
City of event: Bellaterra, Catalonia, Spain
Date of event: 09/2019
Organising entity: Institut de Ciències de l'Espai
Andreu Font-Ribera.
- 7** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: IFAE Seminar
City of event: Barcelona, Catalonia, Spain
Date of event: 09/2019
Organising entity: INSTITUT DE FISICA D'ALTES ENERGIES
Andreu Font-Ribera.
- 8** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: MSSL Seminar
City of event: Dorking, United Kingdom
Date of event: 09/2019
Organising entity: Mullard Space Science
Laboratory
Andreu Font-Ribera. **Type of entity:** Public Research Body



- 9** **Title of the work:** Cosmology with Spectroscopic Surveys: Past, Present and Future
Name of the conference: Understanding Cosmological Observations
City of event: Benasque, Aragon, Spain
Date of event: 08/2019
Organising entity: Centro de Ciencias de Benasque Pedro Pascual Andreu Font-Ribera.
- 10** **Title of the work:** Lyman- α forest with eBOSS: DR14 results
Name of the conference: DESI Collaboration Meeting
City of event: Berkeley, United States of America
Date of event: 07/2019
Organising entity: Lawrence Berkeley National Lab Andreu Font-Ribera.
- 11** **Title of the work:** Baryon Acoustic Oscillations: Past, Present and Future
Name of the conference: Astronomy Colloquium
City of event: Sussex, United Kingdom
Date of event: 06/2019
Organising entity: University of Sussex Andreu Font-Ribera.
- 12** **Title of the work:** Baryon Acoustic Oscillations: Past, Present and Future
Name of the conference: ICG Colloquia
City of event: Portsmouth, United Kingdom
Date of event: 03/2019
Organising entity: University of Portsmouth Andreu Font-Ribera.
- 13** **Title of the work:** Baryon Acoustic Oscillations: Past, Present and Future
Name of the conference: Concordances and challenges in cosmology
City of event: Sesto, Italy
Date of event: 02/2019
Organising entity: Sesto Center for Astrophysics Andreu Font-Ribera.
- 14** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Theoretical Particle Physics and Cosmology seminar
City of event: London, United Kingdom
Date of event: 01/2019
Organising entity: King's College London **Type of entity:** University Andreu Font-Ribera.
- 15** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: DAMTP Cosmology Seminar
City of event: Cambridge, United Kingdom
Date of event: 11/2018
Organising entity: University of Cambridge Andreu Font-Ribera.



- 16** **Title of the work:** Cosmology with the Lyman alpha forest
Name of the conference: IGM2018: Revealing Cosmology and Reionization History with the Intergalactic Medium
City of event: Tokyo, Japan
Date of event: 09/2018
Organising entity: IPMU
Andreu Font-Ribera.
- 17** **Title of the work:** Dark Energy with DESI
Name of the conference: COSPAR 2018: Dark Energy at 20
City of event: Pasadena, United States of America
Date of event: 07/2018
Organising entity: COSPAR
Andreu Font-Ribera.
- 18** **Title of the work:** Neutrinos in Cosmology
Name of the conference: Neutrinos at UCL
City of event: London, United Kingdom
Date of event: 06/2018
Organising entity: University College London **Type of entity:** University
- 19** **Title of the work:** The expansion of the Universe before dark energy: high-z BAO with the Lyman- γ forest
Name of the conference: Consistency of cosmological datasets: Evidence for new Physics?
City of event: Cambridge, United Kingdom
Date of event: 05/2018
Organising entity: Institute of Astronomy
Andreu Font-Ribera.
- 20** **Title of the work:** The expansion of the Universe before dark energy: high-z BAO with the Lyman- γ forest
Name of the conference: Tensions in the LCDM paradigm
City of event: Mainz, Germany
Date of event: 05/2018
Organising entity: Mainz Institute for Theoretical Physics
Andreu Font-Ribera.
- 21** **Title of the work:** Statistical challenges in the Lyman- γ forest
Name of the conference: Statistical challenges in the era of LSST
City of event: Oxford, United Kingdom
Date of event: 04/2018
Organising entity: Oxford University **Type of entity:** University
Andreu Font-Ribera.
- 22** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Astronomy Seminar
City of event: Edinburgh, United Kingdom
Date of event: 04/2018
Organising entity: Royal Observatory of Edinburgh **Type of entity:** University
Andreu Font-Ribera.



- 23** **Title of the work:** Cosmology with the Lyman- α forest: challenges and opportunities
Name of the conference: Research Progress Meeting (Physics seminar)
City of event: Berkeley, United States of America
Date of event: 03/2018
Organising entity: Lawrence Berkeley National Laboratory
Type of entity: University Research Institute
Andreu Font-Ribera.
- 24** **Title of the work:** DESI Lyman- α Forest
Name of the conference: eBOSS/DESI French Meeting
City of event: Paris, France
Date of event: 02/2018
Organising entity: Institut d'Astrophysique de Paris
City organizing entity: Paris, France
Andreu Font-Ribera.
- 25** **Title of the work:** LyaCoLoRe: a new take on Ly-alpha mocks
Name of the conference: DESI Collaboration Meeting
City of event: Stanford, United States of America
Date of event: 12/2017
Organising entity: SLAC
Andreu Font-Ribera.
- 26** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Astronomy Seminar
City of event: Stanford, United States of America
Date of event: 12/2017
Organising entity: Stanford University
Andreu Font-Ribera.
- 27** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Astronomy Seminar
City of event: Nottingham, United Kingdom
Date of event: 10/2017
Organising entity: Nottingham University
Andreu Font-Ribera.
- 28** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Astronomy Seminar
City of event: Oxford, United Kingdom
Date of event: 10/2017
Organising entity: Oxford University
Andreu Font-Ribera.
- 29** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Understanding cosmological observations
City of event: Benasque, Spain
Date of event: 08/2017
Organising entity: FUNDACION CENTRO DE CIENCIAS DE BENASQUE
Andreu Font-Ribera.



- 30** **Title of the work:** Precision Cosmology at high redshift with the Lyman- γ forest
Name of the conference: Astronomy Seminar
City of event: London, United Kingdom
Date of event: 05/2017
Organising entity: Queen Mary University London
Andreu Font-Ribera.
- 31** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Astronomy Seminar
City of event: Durham, United Kingdom
Date of event: 05/2017
Organising entity: Durham University
Andreu Font-Ribera.
- 32** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Astronomy Seminar
City of event: London, United Kingdom
Date of event: 03/2017
Organising entity: University College London
Andreu Font-Ribera.
- 33** **Title of the work:** 3D Power Spectrum of the Lyman- γ Forest
Name of the conference: DESI Lunch
City of event: Berkeley, United States of America
Date of event: 01/2017
Organising entity: Lawrence Berkeley National Lab
Andreu Font-Ribera.
- 34** **Title of the work:** Inflation and neutrinos in the Lyman- γ forest
Name of the conference: Cosmology with neutral hydrogen
City of event: Berkeley, United States of America
Date of event: 01/2017
Organising entity: UC Berkeley
Andreu Font-Ribera.
- 35** **Title of the work:** Neutrinos in the Lyman- γ forest
Name of the conference: DESI Collaboration Meeting
City of event: Ohio, United States of America
Date of event: 12/2016
Organising entity: Ohio State University
Andreu Font-Ribera.
- 36** **Title of the work:** 3D Power Spectrum of the Lyman- γ Forest
Name of the conference: eBOSS / DESI France Meeting
City of event: Paris, France
Date of event: 11/2016
Organising entity: CEA Saclay
Andreu Font-Ribera.



- 37** **Title of the work:** Neutrinos and inflation with the Lyman- α forest
Name of the conference: eBOSS / DESI France Meeting
City of event: Paris, France
Date of event: 11/2016
Organising entity: CEA Saclay
Andreu Font-Ribera.
- 38** **Title of the work:** Cross-correlating the Lyman- α forest
Name of the conference: ICC UB Seminar
City of event: Barcelona, Spain
Date of event: 10/2016
Organising entity: Institut de Ciències del Cosmos
Andreu Font-Ribera.
- 39** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Fundamental Cosmology
City of event: Barcelona, Spain
Date of event: 06/2016
Organising entity: Universitat de Barcelona
Type of entity: University
Andreu Font-Ribera.
- 40** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: 4-MOST Lyman-alpha Workshop
City of event: Madrid, Spain
Date of event: 02/2016
Organising entity: Instituto de Física Teórica
Type of entity: State agency
Andreu Font-Ribera.
- 41** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Research Progress Meeting
City of event: Berkeley, United States of America
Date of event: 02/2016
Organising entity: Lawrence Berkeley National Lab
Andreu Font-Ribera.
- 42** **Title of the work:** 3D $P(k)$ of the Lyman- α forest: from an optimal to a realistic estimator
Name of the conference: Sampling Workshop
City of event: Berkeley, United States of America
Date of event: 01/2016
Organising entity: UC Berkeley
Andreu Font-Ribera.
- 43** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: ICCUB Christmas Meeting
City of event: Barcelona, Spain
Date of event: 12/2015
Organising entity: Institut de Ciències del Cosmos
Andreu Font-Ribera.



- 44** **Title of the work:** Exploring the Universe with the Lyman-alpha Forest
Name of the conference: BOSS Lunch
City of event: Berkeley, United States of America
Date of event: 11/2015
Organising entity: Lawrence Berkeley National Laboratory
Type of entity: Public Research Body
Andreu Font-Ribera.
- 45** **Title of the work:** 3D Power Spectrum of the Lyman-alpha Forest
Name of the conference: 2015 SDSS-IV Collaboration Meeting
City of event: Madrid, Spain
Date of event: 07/2015
Organising entity: Instituto de Física Teórica
Type of entity: State agency
City organizing entity: Madrid, Spain
Andreu Font-Ribera.
- 46** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Cosmology Seminar
City of event: Stanford, United States of America
Date of event: 04/2015
Organising entity: Stanford University
Type of entity: University
Andreu Font-Ribera.
- 47** **Title of the work:** Studying the Expansion of the Universe with quasar spectra
Name of the conference: Cosmology Seminar
City of event: Tokyo, Japan
Date of event: 04/2015
Organising entity: Institute for the Physics and Mathematics of the Universe
Andreu Font-Ribera.
- 48** **Title of the work:** Final Results from BOSS
Name of the conference: 2015 Winter Meeting of the American Astronomical Society
City of event: Seattle, United States of America
Date of event: 01/2015
Organising entity: American Astronomical Society
Andreu Font-Ribera.
- 49** **Title of the work:** Mining the Lyman-alpha Forest in BOSS
Name of the conference: Computing the Universe
City of event: Berkeley, United States of America
Date of event: 01/2015
Organising entity: University of California at Berkeley
Andreu Font-Ribera.
- 50** **Title of the work:** Quasar mock catalogs for eBOSS
Name of the conference: 2014 eBOSS Collaboration Meeting
City of event: Cloudcroft, United States of America
Date of event: 12/2014
Organising entity: Lawrence Berkeley National Laboratory
Type of entity: Public Research Body
City organizing entity: Berkeley, United States of America



Andreu Font-Ribera.

- 51** **Title of the work:** Small scale cross-correlations in Data Release 12
Name of the conference: 2014 BOSS Collaboration Meeting
City of event: Cloudcroft, United States of America
Date of event: 12/2014
Organising entity: Lawrence Berkeley National Laboratory
Type of entity: Public Research Body
City organizing entity: Berkeley, United States of America
Andreu Font-Ribera.
- 52** **Title of the work:** Constraining Quasar radiation models with BOSS data
Name of the conference: Bahcall Lunch Talk
City of event: Princeton, United States of America
Date of event: 11/2014
Organising entity: Institute of Advanced Studies
Type of entity: Public Research Body
Andreu Font-Ribera.
- 53** **Title of the work:** Studying the Expansion of the Universe with BOSS Quasars
Name of the conference: Cosmology Talk
City of event: Princeton, United States of America
Date of event: 11/2014
Organising entity: Princeton University
Type of entity: University
Andreu Font-Ribera.
- 54** **Title of the work:** Cosmology using the Lyman- γ Forest from BOSS
Name of the conference: Harvard ITC Seminar
City of event: Cambridge, United States of America
Date of event: 10/2014
Organising entity: Harvard University
Type of entity: University
Andreu Font-Ribera.
- 55** **Title of the work:** Studying the Expansion of the Universe with BOSS Quasars
Name of the conference: CCAPP Seminar
City of event: Columbus, United States of America
Date of event: 10/2014
Organising entity: Ohio State University
Andreu Font-Ribera.
- 56** **Title of the work:** Studying the Expansion of the Universe with BOSS Quasars
Name of the conference: CCPP Astronomy Talk
City of event: New York, United States of America
Date of event: 10/2014
Organising entity: New York University
Andreu Font-Ribera.
- 57** **Title of the work:** Studying the Expansion of the Universe with BOSS Quasars
Name of the conference: Cosmology Seminar
City of event: Philadelphia, United States of America
Date of event: 10/2014
Organising entity: University of Pennsylvania
Type of entity: University



Andreu Font-Ribera.

- 58** **Title of the work:** New approach to 3D power spectrum of Lyman alpha
Name of the conference: 2014 SDSS-III Collaboration Meeting
City of event: Salt Lake City, United States of America
Date of event: 08/2014
Organising entity: University of Utah **Type of entity:** University
City organizing entity: Salt Lake City, United States of America
Andreu Font-Ribera; Patrick McDonald.
- 59** **Title of the work:** Cosmology at higher redshift with BOSS quasar spectra
Name of the conference: 2014 SDSS-IV Collaboration Meeting
City of event: Salt Lake City, United States of America
Date of event: 07/2014
Organising entity: University of Utah **Type of entity:** University
City organizing entity: Salt Lake City, United States of America
Andreu Font-Ribera.
- 60** **Title of the work:** Studying the Expansion of the Universe with BOSS quasars
Name of the conference: Cosmology Seminar
City of event: Heidelberg, Germany
Date of event: 06/2014
Organising entity: University of Heidelberg **Type of entity:** University
Andreu Font-Ribera.
- 61** **Title of the work:** Studying the Expansion of the Universe with BOSS quasars
Name of the conference: ICE Seminar
City of event: Bellaterra, Catalonia, Spain
Date of event: 06/2014
Organising entity: Institut de Ciències de l'Espai **Type of entity:** Public Research Body
Andreu Font-Ribera.
- 62** **Title of the work:** Studying the Expansion of the Universe with BOSS quasars
Name of the conference: Intergalactic Matters
City of event: Heidelberg, Germany
Date of event: 06/2014
Organising entity: Max Planck Institute for Astronomy **Type of entity:** Public Research Body
Andreu Font-Ribera.
- 63** **Title of the work:** Studying the Expansion of the Universe with BOSS quasars
Name of the conference: Cosmology Seminar
City of event: Santa Cruz, United States of America
Date of event: 05/2014
Organising entity: University of California at Santa Cruz **Type of entity:** University
Andreu Font-Ribera.
- 64** **Title of the work:** The Expanding Universe with Quasars from the Sloan Digital Sky Survey
Name of the conference: 2014 April Meeting of the American Physical Society
City of event: Savannah, United States of America



Date of event: 04/2014

Organising entity: American Physical Society
Andreu Font Ribera; Patrick McDonald.

Type of entity: Associations and Groups

65 Title of the work: Tracing Large Scale Structure with the Lyman alpha Forest

Name of the conference: UW Astronomy Colloquium

City of event: Seattle, United States of America

Date of event: 01/2014

Organising entity: University of Washington
Andreu Font-Ribera.

Type of entity: University

66 Title of the work: BAO in the Cross-correlation of Quasars and the Lyman-alpha Forest

Name of the conference: 2013 BOSS Collaboration Meeting

City of event: Berkeley, United States of America

Date of event: 12/2013

Organising entity: Lawrence Berkeley National
Laboratory

Type of entity: Public Research Body

Andreu Font-Ribera; David Kirkby; Nicolas Busca; Anze Slosar; Jordi Miralda-Escudé and Nic Ross.

67 Title of the work: Lyman alpha Forest in eBOSS

Name of the conference: eBOSS Collaboration Review

City of event: Berkeley, United States of America

Date of event: 12/2013

Organising entity: Lawrence Berkeley National
Laboratory

Type of entity: Public Research Body

Andreu Font-Ribera; on behalf of the eBOSS Lyman alpha working group.

68 Title of the work: Tracing Large Scale Structure with the Lyman alpha Forest

Name of the conference: Institute for Nuclear and Particle Astrophysics (INPA) Seminar

City of event: Berkeley, United States of America

Date of event: 12/2013

Organising entity: Lawrence Berkeley National
Laboratory

Type of entity: Public Research Body

Andreu Font-Ribera.

69 Title of the work: Cross-correlating the Forest

Name of the conference: Theoretical Challenges for the Next Generation of Large Scale Surveys of the Universe

City of event: Ascona, Switzerland, Switzerland

Date of event: 07/2013

Organising entity: University of Zurich
Andreu Font-Ribera.

Type of entity: University

70 Title of the work: Cross-correlating the Forest

Name of the conference: Intergalactic Interactions: A Higgs Centre Workshop on the Intergalactic Medium

City of event: Edinburgh, United Kingdom

Date of event: 06/2013

Organising entity: University of Edinburgh
Andreu Font-Ribera.

Type of entity: University



- 71** **Title of the work:** Lyman alpha Forest with BOSS (and eBOSS)
Name of the conference: CosmoRENATA 2013
City of event: Valencia, Spain, Valencian Community, Spain
Date of event: 06/2013
Organising entity: Instituto de Física Corpuscular **Type of entity:** Public Research Body
Andreu Font-Ribera.
- 72** **Title of the work:** Learning about Damped Lyman alpha systems with BOSS
Name of the conference: 2013 Winter Meeting of the American Astronomical Society
City of event: Long Beach, United States of America
Date of event: 01/2013
Organising entity: American Astronomical Society **Type of entity:** Associations and Groups
Andreu Font-Ribera.
- 73** **Title of the work:** Lyman alpha Forest with BOSS
Name of the conference: HERS Collaboration Meeting
City of event: Pasadena, United States of America
Date of event: 01/2013
Organising entity: California Institute of Technology **Type of entity:** Public Research Body
Andreu Font-Ribera.
- 74** **Title of the work:** Cosmology with the Lyman alpha Forest: First Results from the BOSS Survey
Name of the conference: ICC Seminar
City of event: Barcelona, Catalonia, Spain
Date of event: 12/2012
Organising entity: Universitat de Barcelona **Type of entity:** University
Andreu Font-Ribera.
- 75** **Title of the work:** Cosmology with the Lyman alpha Forest: First Results from the BOSS Survey
Name of the conference: ICE Seminar
City of event: Bellaterra, Catalonia, Spain
Date of event: 12/2012
Organising entity: Institut de Ciències de l'Espai **Type of entity:** Public Research Body
Andreu Font-Ribera.
- 76** **Title of the work:** Cosmology with the Lyman alpha Forest: First Results from the BOSS Survey
Name of the conference: UCB Galaxy Formation Seminar
City of event: Berkeley, United States of America
Date of event: 12/2012
Organising entity: University of California Berkeley **Type of entity:** University
Andreu Font-Ribera.
- 77** **Title of the work:** LyaF-QSO Cross-correlation and Errors in Quasar Redshift
Name of the conference: 2012 BOSS Collaboration Meeting
City of event: Pittsburgh, United States of America
Date of event: 12/2012
Organising entity: Carnegie Mellon University **Type of entity:** University
Andreu Font-Ribera.



- 78** **Title of the work:** Lyman-alpha Forest from BOSS (Plenary talk)
Name of the conference: 2012 BOSS Collaboration Meeting
City of event: Pittsburgh, United States of America
Date of event: 12/2012
Organising entity: Carnegie Mellon University **Type of entity:** University
Andreu Font-Ribera.
- 79** **Title of the work:** Cosmology with the Lyman alpha Forest: First Results from the BOSS Survey
Name of the conference: Particle and Astrophysics Seminar
City of event: Zurich, Switzerland
Date of event: 11/2012
Organising entity: University of Zurich **Type of entity:** University
Andreu Font-Ribera.
- 80** **Title of the work:** Cross-correlating the Lyman alpha Forest
Name of the conference: MPA-IFT Spring Workshop on LSS
City of event: La Cristalera, Community of Madrid, Spain
Date of event: 04/2012
Organising entity: FUNDACION GENERAL DE LA UNIVERSIDAD AUTONOMA DE MADRID FUAM
Andreu Font-Ribera.
- 81** **Title of the work:** DLA-LyaF Cross-correlations
Name of the conference: 2012 BOSS Lyman alpha Workshop
City of event: Salt Lake City, United States of America
Date of event: 03/2012
Organising entity: University of Utah **Type of entity:** University
Andreu Font-Ribera.
- 82** **Title of the work:** Cross-correlations of the Lya Forest with Anything
Name of the conference: 2012 BOSS Collaboration Meeting
City of event: New York City, United States of America
Date of event: 01/2012
Organising entity: New York University **Type of entity:** University
Andreu Font-Ribera.
- 83** **Title of the work:** Quasar Bias from Correlations with the Forest
Name of the conference: 2012 BOSS Collaboration Meeting
City of event: New York City, United States of America
Date of event: 01/2012
Organising entity: New York University **Type of entity:** University
Andreu Font-Ribera.
- 84** **Title of the work:** Cross-correlating the Forest
Name of the conference: BOSS Lyman alpha Working Group Meeting
City of event: Paris, France
Date of event: 07/2011
Organising entity: Institut d'astrophysique de Paris **Type of entity:** University
Andreu Font-Ribera.



- 85** **Title of the work:** Effect of LLS/DLA on the Lyman alpha Forest Correlation Function
Name of the conference: BOSS Lyman alpha Working Group Meeting
City of event: Paris, France
Date of event: 07/2011
Organising entity: Institut d'astrophysique de Paris **Type of entity:** University
Andreu Font-Ribera and Jordi Miralda-Escudé.
- 86** **Title of the work:** The Future of QSO / Lyman-Alpha Mocks
Name of the conference: 2011 BOSS Collaboration Meeting
City of event: Cloudcroft, United States of America
Date of event: 03/2011
Organising entity: Lawrence Berkeley National Laboratory **Type of entity:** Public Research Body
Andreu Font-Ribera.
- 87** **Title of the work:** Simulating the Lyman-alpha Forest Power Spectrum Measurement from the BOSS Quasar Survey
Name of the conference: ICE Astronomy Seminar
City of event: Bellaterra, Catalonia, Spain
Date of event: 02/2011
Organising entity: Institut de Ciències de l'Espai **Type of entity:** Public Research Body
Andreu Font-Ribera; Jordi Miralda-Escudé and Patrick McDonald.
- 88** **Title of the work:** Simulating the Lyman-alpha Forest Power Spectrum Measurement from the BOSS Quasar Survey
Name of the conference: MPIA Astronomy Seminar
City of event: Heidelberg, Germany
Date of event: 02/2011
Organising entity: Max Planck Institute for Astronomy **Type of entity:** Public Research Body
Andreu Font-Ribera; Jordi Miralda-Escudé and Patrick McDonald.
- 89** **Title of the work:** Effect of DLAs in LyaF statistics
Name of the conference: SDSS-III Collaboration Meeting
City of event: Paris, France
Date of event: 09/2010
Organising entity: Institut d'astrophysique de Paris **Type of entity:** University
Andreu Font-Ribera.
- 90** **Title of the work:** Forecast of Possible Detections Using Mock Catalogs with Noise
Name of the conference: BOSS Collaboration Meeting
City of event: Salt Lake City, United States of America
Date of event: 03/2010
Organising entity: University of Utah **Type of entity:** University
Andreu Font-Ribera.
- 91** **Title of the work:** Generating Mock Lyman alpha Data Sets for BOSS
Name of the conference: BOSS Lyman alpha Working Group Meeting
City of event: Columbus, United States of America
Date of event: 03/2009
Organising entity: Ohio State University **Type of entity:** University



Andreu Font-Ribera.

- 92** **Title of the work:** A ~5 M_{earth} Super-Earth Orbiting GJ 436?: The Power of Near-Grazing Transits
Name of the conference: Sociedad Española de Astronomía (SEA) 2008 Meeting
City of event: Santander, Cantabria, Spain
Date of event: 07/2008
Organising entity: Sociedad Española de astronomía
Type of entity: Associations and Groups
Andreu Font-Ribera.

Other dissemination activities

- 1** **Title of the work:** No need to mind the gap: astrophysicists fill in 11 billion years of our Universe's expansion history
Type of event: Press Release
City of event: Salt Lake City, United States of America
Date of event: 20/07/2020
Organising entity: Sloan Digital Sky Survey
K. Dawson; et al. including A.Font-Ribera.
- 2** **Title of the work:** Beyond Prison Walls: outreach at HMP Brixton Prison
City of event: London, United Kingdom
Date of event: 11/2019
Organising entity: Royal Astronomical Society
- 3** **Title of the work:** Exploring our expanding Universe
Type of event: Conferences given
City of event: London, United Kingdom
Date of event: 11/2018
Organising entity: Westminster Reference Library
- 4** **Title of the work:** Beyond Prison Walls: outreach at HMP Brixton Prison
Type of event: Conferences given
City of event: London, United Kingdom
Date of event: 01/2018
Organising entity: Royal Astronomical Society
- 5** **Title of the work:** Astronomers from the Sloan Digital Sky Survey Make the Most Precise Measurement Yet of the Expanding Universe
Name of the event: American Physical Society april meeting
Type of event: Press Conference
City of event: Savannah, United States of America
Date of event: 07/04/2014
Organising entity: Sloan Digital Sky Survey
Andreu Font-Ribera; et al..
- 6** **Title of the work:** The Great Space Coaster: Astronomers measure the Universe's deceleration before dark energy took over
Type of event: Press Conference
City of event: Paris, France

Date of event: 12/11/2012
Organising entity: Sloan Digital Sky Survey
Nicolas Busca; et al. including A.Font-Ribera.

7 **Title of the work:** These Little Lights of Mine: 14,000 quasars shine a light on the distant universe
Type of event: Press Conference
City of event: Brookhaven, United States of America
Date of event: 11/05/2011
Organising entity: Sloan Digital Sky Survey
Slosar Anze; Andreu Font-Ribera; et al..

8 **Title of the work:** Astronomers find smallest planet outside of solar system
Type of event: Press Conference
City of event: Madrid, Community of Madrid, Spain
Date of event: 10/04/2008
Organising entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Ignasi Ribas; Andreu Font-Ribera; Jean-Philippe Beaulieu.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** CosmoParticle PhD admission panel (chair)
Affiliation entity: University College London
City affiliation entity: London, United Kingdom
Start-End date: 2018 - 2018
Type of entity: University
- 2** **Committee title:** Collaboration Council
Primary (UNESCO code): 210000 - Astronomy & Astrophysics
Affiliation entity: Sloan Digital Sky Survey
City affiliation entity: New York, United States of America
Start-End date: 05/2015 - 09/2016
Type of entity: Scientific Collaboration

Organization of R&D activities

- 1** **Title of the activity:** Virtual DESI Lya Meeting
Type of activity: Member of the organization committee
Geographical area: Non EU International
Convening entity: (virtual meeting)
Start-End date: 29/07/2020 - 30/07/2020
- 2** **Title of the activity:** Astronomy Seminars at UCL
Type of activity: Organizer of the weekly astronomy seminars at UCL
Geographical area: European Union
City of event: Berkeley,
Convening entity: University College London
City convening entity: London, United Kingdom
Type of entity: University
Type of participation: Organiser



Start-End date: 09/2017 - 04/2020

- 3** **Title of the activity:** DESI Collaboration Meeting
Type of activity: Member of the organization committee
Geographical area: Non EU International
Convening entity: University of Arizona
Type of entity: University
City convening entity: Tucson, United States of America
Start-End date: 09/03/2020 - 13/03/2020
- 4** **Title of the activity:** DESI-UK Collaboration Meeting
Type of activity: Member of the organization committee
Geographical area: European Union
Convening entity: University College London
City convening entity: London, United Kingdom
Start-End date: 02/10/2019 - 03/10/2019
- 5** **Title of the activity:** BOSS Lunch Coordinator
Type of activity: Coordinator of the weekly cosmology discussions at LBNL
Geographical area: Non EU International
City of event: Berkeley,
Convening entity: Lawrence Berkeley National Laboratory
Type of entity: Public Research Body
City convening entity: Berkeley, United States of America
Type of participation: Organiser
Start-End date: 08/2015 - 07/2016
- 6** **Title of the activity:** Seminars of the Institute for Nuclear and Particle Astrophysics
Type of activity: Coordinator of the weekly cosmology seminars at LBNL
Geographical area: Non EU International
City of event: Berkeley,
Convening entity: Lawrence Berkeley National Laboratory
Type of entity: Public Research Body
City convening entity: Berkeley, United States of America
Type of participation: Organiser
Start-End date: 08/2014 - 07/2015
- 7** **Title of the activity:** Local Organizing Committee for the 2013 eBOSS review
Type of activity: local organizer
Geographical area: Non EU International
Convening entity: Lawrence Berkeley National Laboratory
Type of entity: Public Research Body
City convening entity: Berkeley, United States of America
Start-End date: 13/12/2013 - 14/02/2014
- 8** **Title of the activity:** Local Organization Committee for the 2013 BOSS collaboration meeting
Type of activity: Local organizer
Geographical area: Non EU International
Convening entity: Lawrence Berkeley National Laboratory
Type of entity: Public Research Body
City convening entity: Berkeley, United States of America
Start-End date: 08/12/2013 - 11/12/2013

R&D management

- 1 Name of the activity:** Lyman alpha working group coordinator
Type of management: Group management
Performed tasks: Co-Chair
Entity: Dark Energy Spectroscopic Instrument
Start date: 01/2017
- 2 Name of the activity:** Lyman alpha working group coordinator
Type of management: Group management
Performed tasks: Co-Chair
Entity: SDSS-IV / eBOSS
Start date: 05/2013
Type of entity: International Collaboration
Duration: 2 years
- 3 Name of the activity:** Lyman alpha working group coordinator
Type of management: Group management
Performed tasks: Co-Chair
Entity: SDSS-III / BOSS
Start date: 06/2012
Type of entity: International Collaboration
Duration: 5 years - 6 months

Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Peer review of scientific projects
Performed tasks: Reviewer of "Programma per Giovani Ricercatori - Rita Levi Montalcini"
Entity where activity was carried out: CINECA (Italian universities consortium)
City of entity: Rome, Italy
Start-End date: 07/2018 - 08/2018
- 2 Name of the activity:** Peer review of scientific projects
Performed tasks: Reviewer of ERC Starting Grant
Entity where activity was carried out: European Research Council
City of entity: Brussels, Belgium
Start-End date: 04/2018 - 06/2018
- 3 Name of the activity:** Peer review of scientific projects
Performed tasks: Reviewer of telescope proposal
Entity where activity was carried out: Gran Telescopio Canarias
City of entity: La Laguna, Spain
Start-End date: 04/2018 - 04/2018
- 4 Name of the activity:** Peer review
Performed tasks: Refereed scientific publications
Entity where activity was carried out: Science, Astrophysical Journal, Physical Review Letters, Physical Review D, Physical Letters B, Journal of Cosmology and Astroparticle Physics, Astrophysical Journal Letters, Astronomy & Astrophysics
Start-End date: 2012 - 2018



- 5 Name of the activity:** Peer review of scientific projects
Performed tasks: Review Panelist
Entity where activity was carried out: NASA **Type of entity:** State agency
City of entity: Washington DC, United States of America
Start-End date: 11/2015 - 11/2015

Other achievements

Stays in public or private R&D centres

- 1 Entity:** University College London **Type of entity:** University
City of entity: London, United Kingdom
Start-End date: 10/2016 - 01/2019 **Duration:** 2 years - 3 months
Goals of the stay: Post-doctoral
Provable tasks: Senior Research Fellow
- 2 Entity:** Lawrence Berkeley National Laboratory **Type of entity:** Public Research Body
City of entity: Berkeley, United States of America
Start-End date: 10/2013 - 09/2016 **Duration:** 3 years
Goals of the stay: Post-doctoral
Provable tasks: Postdoctoral researcher and member BCCP and INPA groups
- 3 Entity:** University of Zurich **Type of entity:** University
City of entity: Zurich, Switzerland
Start-End date: 10/2011 - 09/2013 **Duration:** 2 years
Goals of the stay: Post-doctoral
Provable tasks: Postdoctoral researcher
- 4 Entity:** Lawrence Berkeley National Laboratory **Type of entity:** Public Research Body
City of entity: Berkeley, United States of America
Start-End date: 11/2012 - 12/2012
Goals of the stay: Post-doctoral
Provable tasks: Collaboration with Uros Seljak and Patrick McDonald
- 5 Entity:** Lawrence Berkeley National Laboratory **Type of entity:** Public Research Body
City of entity: Berkeley, United States of America
Start-End date: 11/2011 - 12/2011
Goals of the stay: Post-doctoral
Provable tasks: Collaboration with Uros Seljak and Patrick McDonald
- 6 Entity:** Lawrence Berkeley National Laboratory **Type of entity:** Public Research Body
City of entity: Berkeley, United States of America
Start-End date: 03/2011 - 04/2011
Goals of the stay: Doctorate
Provable tasks: Collaboration with Martin White
- 7 Entity:** Lawrence Berkeley National Laboratory **Type of entity:** Public Research Body
City of entity: Berkeley, United States of America
Start-End date: 01/2010 - 03/2010



Goals of the stay: Doctorate

Provable tasks: Collaboration with Martin White

8 Entity: Canadian Institute for Theoretical Astrophysics

City of entity: Toronto, Canada

Start-End date: 02/2009 - 04/2009

Goals of the stay: Doctorate

Provable tasks: Collaboration with Patrick McDonald

9 Entity: Institute of Space Sciences

City of entity: Barcelona,

Start-End date: 09/2007 - 12/2007

Goals of the stay: Undergraduate student

10 Entity: Astrophysics Institute of the Canary Islands

City of entity: La Laguna, Spain

Start-End date: 07/2007 - 08/2007

Goals of the stay: Undergraduate student

11 Entity: Institute for Space Studies of Catalonia

City of entity: Barcelona,

Start-End date: 10/2006 - 06/2007

Goals of the stay: Undergraduate student

12 Entity: Institute of Space Sciences

City of entity: Barcelona,

Start-End date: 06/2006 - 09/2006

Goals of the stay: Undergraduate student

13 Entity: Institute of Physics and Mathematics of the Universe

City of entity: Tokyo, Japan

Start date: 09/2018

Goals of the stay: Post-doctoral

Provable tasks: Collaboration with Khee Gan Lee

Type of entity: Public Research Body

Duration: 14 days

14 Entity: Institute of Physics and Mathematics of the Universe

City of entity: Tokyo, Japan

Start date: 03/2015

Goals of the stay: Post-doctoral

Provable tasks: Collaboration with Masahiro Takada

Type of entity: Public Research Body

Duration: 14 days



Obtained grants and scholarships

- 1** **Name of the grant:** JAE Predoctoral Grant
Awarding entity: Spanish Research Council (CSIC)
Conferral date: 2008
End date: 2011

- 2** **Name of the grant:** Ramon y Cajal Fellowship (RYC2018-025210-I)
Awarding entity: Ministerio de Ciencia e Innovación **Type of entity:** Public funding agency
Amount of the grant: 208.600 €
Conferral date: 09/2019 **Duration:** 5 years
Entity where activity was carried out: INSTITUT DE FISICA D'ALTES ENERGIES

- 3** **Name of the grant:** Ernest Rutherford Fellowship
Aims: Post-doctoral
Awarding entity: Science and Technology Facilities Council **Type of entity:** State agency
Amount of the grant: 600.000 €
Conferral date: 10/2016 **Duration:** 5 years
Entity where activity was carried out: University College London

- 4** **Name of the grant:** Max Planck Postdoctorate Fellowship (offer declined)
Aims: Post-doctoral
Awarding entity: Max Planck Institute for Astrophysics **Type of entity:** Public Research Body
Conferral date: 01/2015 **Duration:** 3 years
Entity where activity was carried out: Max Planck Institute for Astrophysics

- 5** **Name of the grant:** Kavli Fellowship (offer declined)
Aims: Post-doctoral
Awarding entity: Institut of Physics and Mathematics of the Universe (Tokyo)
Conferral date: 12/2014 **Duration:** 3 years
Entity where activity was carried out: Institut of Physics and Mathematics of the Universe (Tokyo)

- 6** **Name of the grant:** Lagrange Fellowship (offer declined)
Aims: Post-doctoral
Awarding entity: Lagrange Institute of Paris
Conferral date: 11/2014 **Duration:** 3 years
Entity where activity was carried out: Institut d'Astrophysics de Paris

- 7** **Name of the grant:** Introduction to Research
Awarding entity: Spanish Research Council (CSIC)
Conferral date: 06/2007

- 8** **Name of the grant:** Summer scholarship
Awarding entity: Astrophysics Institute of the Canary Islands (IAC)
Conferral date: 05/2007



- 9** **Name of the grant:** Collaboration studentship
Awarding entity: Institute for Space Studies of Catalonia (IEEC),
Conferral date: 09/2006
- 10** **Name of the grant:** Introduction to Research
Awarding entity: Spanish Research Council (CSIC)
Conferral date: 06/2006

Scientific societies and professional associations

- 1** **Name of the society:** Royal Astronomy Society
City affiliation entity: London, United Kingdom
Start-End date: 10/2016 - 04/2020
- 2** **Name of the society:** American Astronomical Society
City affiliation entity: Washington, United States of America
Start-End date: 01/2015 - 12/2015
- 3** **Name of the society:** American Physical Society
City affiliation entity: Washington, United States of America
Start-End date: 01/2014 - 12/2014
- 4** **Name of the society:** American Astronomical Society
City affiliation entity: Washington, United States of America
Start-End date: 01/2013 - 12/2013
- 5** **Name of the society:** Sociedad Española de Astronomía
City affiliation entity: Barcelona, Spain
Start-End date: 01/2008 - 12/2010

Prizes, mentions and distinctions

- 1** **Description:** Extraordinary PhD Award
Awarding entity: Universitat de Barcelona
Conferral date: 2013
Type of entity: University
- 2** **Description:** Extraordinary Award on Physics
Awarding entity: Universitat de Barcelona
Conferral date: 09/2008
Type of entity: University
- 3** **Description:** Best Experimental Exercise Prize in the VIII Iberoamerican Physics Olympiad
City awarding entity: La Habana, Cuba
Conferral date: 09/2003
- 4** **Description:** Silver Medal in the VIII Iberoamerican Physics Olympiad
City awarding entity: La Habana, Cuba
Conferral date: 09/2003



- 5** **Description:** Gold medal in the Spanish Physics Olympiad
Awarding entity: REAL SOCIEDAD ESPAÑOLA DE FISICA
City awarding entity: Cuenca, Spain
Conferral date: 04/2003
- 6** **Description:** First Prize in the 2003 Physics Olympiad, Catalan Phase
Awarding entity: Societat Catalana de Física
City awarding entity: Barcelona, Catalonia, Spain
Conferral date: 01/2003