

# ELENA GIUSARMA

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## POSITIONS

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<b>Flatiron Institute CCA, New York</b> Flatiron Research Fellowship	August 2018 - present
<b>Carnegie Mellon University, Pittsburgh, USA</b> Post-doctoral Research Fellow	2015-July 2018
<b>INFN/University of Rome “Sapienza”, Rome, Italy</b> Post-doctoral Research Fellow	2013-2015

## EDUCATION

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<b>IFIC/University of Valencia, Valencia, Spain</b> Ph.D in Physics Advisor: Olga Mena	2010-2013
<b>University of Rome “Sapienza”, Rome, Italy</b> Master’s Degree in Astronomy and Astrophysics (110/110 <i>cum laude</i> )	2006-2009
<b>University of Rome “Sapienza”, Rome, Italy</b> Bachelor’s Degree in Physics and Astrophysics	2002-2006

## RESEARCH VISITS

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<b>LBNL, Berkeley Center for Cosmological Physics, Berkeley, USA</b> Research Affiliate	2016-present
<b>ICC/University of Barcelona, Spain</b> Collaboration with Roland De Putter	February - March 2012

## CITATIONS

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- Total number of citations until 2016: 9202; h-index: 19; i-index: 27
- Total Number of Publications: 38

## RESEARCH INTERESTS

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Cosmology, Theory and data analysis  
Neutrinos and Axions in Cosmology  
Modified Gravity models  
Large-scale structure, galaxy lensing, baryon acoustic oscillations, quasars  
Gravitational redshifts and relativistic effects in galaxy survey  
Cosmic Microwave Background radiation and CMB lensing  
Dark energy and dark matter models  
Machine Learning in Astronomy

## COLLABORATION MEMBERSHIPS

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- eBOSS collaboration 2015-2018
- Planck Collaboration 2013-2015
- BOSS Collaboration 2010-2013

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## ACADEMIC ACTIVITIES

- **Journal Refereeing:**  
Physics Review D and Journal of Cosmology and Astroparticles Physics.

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## TEACHING EXPERIENCE

- **Teaching assistant** of the course “Physics I” for Biologic Bachelor’s degree (2014).

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## SELECTED TALKS

- Cosmology Seminar, New York University, New York, 2 November 2017.
- Cosmology Seminar, Institute for Advanced Study, Princeton, 30 October 2017.
- Cosmology Seminar, Cahill Center for Astronomy and Astrophysics, Caltech, Pasadena, 19 October 2017.
- Cosmology Seminar, Kavli Institute for Particle Astrophysics and Cosmology, Stanford University, Stanford, 16 October 2017. (Invited talk)
- Cosmology Seminar, University of California Santa Cruz, Santa Cruz, 9 October 2017.
- Advances in Theoretical Cosmology in Light of Data, Nordita, Stockholm, 24-28 July 2017.
- DESI Meeting, Lawrence Berkeley National Laboratory, Berkeley, 21 June 2017.
- Invited talk: Kavli Institute for Cosmological Physics, Chicago, 10 February 2017.
- Invited talk: Instituto de Ciencias del Cosmos, Barcelona, June 2016.
- Essential Cosmology for the Next Generation 2016, Playa Del Carmen, Mexico, 10-16 January 2016.
- Workshop on Particles and Cosmology, Corfu, 13-19 September 2015.
- Invited talk: Elba XIII Workshop, Electron-Nucleus Scattering XIII , Marciana Marina, Italy, 23-27 June 2014.
- Rencontres de Moriond “Cosmology 2014”, La Thuile, Italy 22-29 March 2014.

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## COMPUTER SKILLS

- Python, Jupyter, Matlab, Mathematica, Fortran Language, TensorFlow, PyTorch.
- Certificate of attendance at the course “Introduction to Scientific and Technical Computing in C++”. CINECA consortium, Roma, Italy (25-27 November 2014).
- Certificate of attendance at the course “An Introduction to Interactive Programming in Python”. Rice University, Online Course, Coursera (September-November 2014).
- Certificate of attendance at the course “Introducing to HPC Scientific: Programming tools and Techniques”. CINECA consortium, Roma, Italy (9-11 April 2014).