

Yara De Leo



CONTACT INFORMATION

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EXPERIENCE

"Astronomy in Cathedral" lecture Comitato per la Divulgazione dell'Astronomia (Committee for the disclosure of astronomy)

Florence, Italy

June-2019 - June-2019

- popular lecture with Power Point presentation on the gnomon of the Cathedral of Santa Maria del Fiore, with explanation of the astronomical instrument (gnomon and meridian line) and illustration of the passage of the image of the solar disk through the meridian line on the floor of the Cathedral

"Astronomy in Cathedral" lecture

Committee for the disclosure of astronomy

Florence, Italy

June-2018 - June-2018

"Scienzestate - OpenLab"

Associazione Le Macchine Celibi for University of Florence

Polo scientifico of Sesto Fiorentino, Florence, Italy

June-2017 - June-2017

- popular lecture about Astrobiology for a cultural event organized by University of Florence
-activities with children

Lecture at the Chianti Polifunctional Observatory

Scientificamente Associazione for University of Florence

S. Donato in Poggio, Barberino Val d'Elsa, Florence, Italy

June-2017 - June-2017

-popular lecture about astronomy, with explanation of the peculiar instrumentation of OPC observatory

"Astronomo per un minuto" newsletter author

Committee for the disclosure of astronomy

Florence, Italy

December-2012 - Present

To date, the newsletter has more than 90 articles sent, on a monthly basis. The topics covered mainly concern current topics in astronomy and astrophysics. Furthermore, I periodically wrote didactic bulletins on the main topics of Astronomy and astrophysics. Currently there are about 300 users. The editing of the numbers is in collaboration with Prof. Massimo Mazzoni of the Arcetri Astrophysical Observatory.

My main tasks are:

- Writing of astronomical dissemination articles
- Informatic management of the newsletter and management of responses to users

Private lessons

Florence, Italy

Subjects I've treated in my lessons: math, physics, Latin, ancient Greek, philosophy

EDUCATION

First year of Ph.D. position

University of Catania
01/11/2019 - 31/10/2020

Research fellowship at University of Florence

"Coronal diagnostic tools development for data analysis of the Metis coronagraph on-board Solar Orbiter"

Tutor: Prof. Marco Romoli

Master Degree in Physical and Astrophysical Sciences

University of Florence
Florence, Italy
25/10/2019

Thesis title: "Tools development for calibration, operations planning and data analysis of the Metis coronagraph on-board Solar Orbiter"

110/110 e lode, Magna cum Laude

Supervisor: Prof. Marco Romoli (University of Florence)

Advanced Python for Astronomy course participant

Arcetri Observatory, University of Florence
Florence, Italy
2018

- course about Astropy and other specific packages for Astronomy in Python programming language

Astrobiology summer school participant

Université Pierre et Marie Curie (UPMC)
Université Pierre et Marie Curie (UPMC),
Laboratoire Arago, Banyuls sur Mer
(France)
08/2012

Course title: "Origin, Evolution and Future of the Biosphere" Supervisor: Prof. Enzo Gallori (University of Florence)

Bachelor Degree in Physics

University of Florence
Florence, Italy
22/06/2010

Thesis title: "The Metis coronagraph of the Solar Orbiter mission" 99/110

Supervisor: Prof. Marco Romoli

Highschool degree

Liceo Ginnasio Classico "Dante"
Florence, Italy
2001

95/100

LANGUAGES

Italian

Native speaker

English

B1 (advanced user)

Spanish

A2, Basic user

SKILLS

Communication skills : Aptitude for communication and teamwork. Good communication skills gained through my experience as a contributor to the public understanding of science for the University of Florence.

Job related skills: Study of physical phenomena through data analysis. Experience in working group: member of Metis Scientific Working Group (Italia), during my master degree thesis job

Computer skills: - C programming language -IDL -MATLAB -HTML - LateX -Suite Microsoft Office and analogous - graphic softwares (Gimp, Adobe, Autodesk Autocad LT) - Zemax

CERTIFICATES & COURSES

University of Florence English Certificate (B1)

PUBLICATIONS

"Ioannis Schoener's papery Geography between sky and Earth"
SISFA Proceedings, Pavia University Press, Pavia, 2016. ISBN: 978-88-6952-040-2. The article concerns the study of the latin text "De Globi Terrestris Usu", contained in the posthumous script "Opera Mathematica" by the Renaissance astronomer Johannes Schoener. Schoener. For For this work I produced the first translation in Italian language from latin.

TALK: "METIS UV RADIOMETRIC CALIBRATION PRELIMINARY ESTIMATES", 19/09/2019, METIS MEETING, CATANIA.

Presentation about preliminary estimates for the UV channel radiometric calibration. The main aim of this work was to find out the photon flux of some UV stellar targets available during Metis observation. I've explained, theory, my IDL code for UV radiometric calibration and main results.

TALK:"2D K+F CORONA RECONSTRUCTION: METIS PLANNED OBSERVATION ALONG S/C ORBITS",05/04/2019, METIS SWT24TH, FLORENCE.

Presentation about the techniques to separate K and F corona. I've chosen the Leninert (1975) and Mann (1992) model to simulate F corona brightness, adapting to the case of Metis (considering field of view, orbit etc.)

TALK:"IOANNIS SCHOENER'S PAPERY GEOGRAPHY BETWEEN SKY AND EARTH", 12/09/2014,SISFA CONGRESS, FLORENCE.

Presentation about the study (and my translation) of the latin text "De Globi Terrestris Usu", contained in the posthumous script "Opera Mathematica" by the Renaissance astronomer Johannes Schoener.
