Paolo Cremonese

Curriculum Vitae

Personal details

First name	Paolo
Last name	Cremonese
Place of birth	Treviso, Italy
Date of birth	25/06/1992
Nationality	Italian
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Education

2018-current	**PhD**, *Szczecin University*, Mathematics and Physics department, Szczecin, Poland.
subject	Multi-messenger astrophysics, gravitational lensing, gravitational waves, data analysis
supervisor	prof. Vincenzo Salzano
web page	cosmo.usz.edu.pl/pcremonese
2015-2017	**Master's Degree in Astronomy**, *Universitá degli Studi di Padova*, Padova, *Final result:* 110L/110.
2011–2015	**Bachelor's Degree in Astronomy**, *Universitá degli Studi di Padova*, Padova, *Final result:* 98/110.

Publications

on-line list	arXiv - Paolo Cremonese
	INSPIRE - Paolo Cremonese
	List

| 08/2018 | *The lensing time delay between gravitational and electromagnetic waves*, (arXiv:1808.05886), a reviewed copy of the master thesis work. Submitted to A&A. |

Master's Thesis

Title	*Delay in arrival time between Gravitational Waves and Electromagnetic signal due to Gravitational Lensing*
Supervisor	Professor Edvard Mörtsell *from the Department of Physics at Stockholm University*
Supervisor	Professor Sabino Matarrese *from the Department of Physics at Universitá degli Studi di Padova*
Description	I studied the arrival time difference, due to gravitational lensing, between two signals of different nature, gravitational and electromagnetic, coming from the same source. I studied the problem both from a theoretical and observational point of view. It was an extremely useful experience because, in order to fully understand and properly work on my thesis, I had to study many different subjects from different fields. In particular, I expand my knowledge above academic standard on gravitational waves, gravitational lensing, millisecond pulsars, pulsar timing array, super massive binary BHs and electromagnetic signal from those. A reviewed copy of the work was submitted for publication to *A&A* on July the 9th, 2019.

Bachelor's Thesis

Title	*Materia oscura nelle galassie a spirale / Dark matter in spiral galaxies*
Supervisors	Professor Alessandro Pizzella & Professor Enrico Maria Corsini
Description	In this thesis I studied the presence of dark matter in two spiral galaxies, using their velocity curve shaped through observation data of doppler shift of some fundamental spectral lines. I modelled a dark matter halo fitting the velocity curve and the "regular" matter curve, obtained through photometric data. In parallel to that, I also explained the velocity curve through the *MOND* theory. During this work I learned to use *IDL* and I studied more in detail dark matter.

Observing experience

13-14 January 2016	**Asiago Astrophysical Observatory**, *122 cm*, Asiago, Italy. Adaptive Optics speckle interferometry of a sample of unresolved binary stars.
November 2013	**Asiago Astrophysical Observatory**, *122 cm*, Asiago, Italy. Data reduction of photometric images with pre-reduction for bias and flat field.

Experience

Vocational

Feb-Jul/2018 **Internship**, *data science*, *DBA group*, Treviso, Italy.
I took part in an 6 months internship. I worked in a group developing methods and knowledge on how to record and elaborate different type of data, from meteorological to industrial. There, I had the opportunity to deepen my knowledge of PYTHON language and learning also some statistics topics, especially neural networks and classification methods.

summer 2012 and 2013 **Part time job**, Treviso, Italy.
I spent some time, during late summer, working in a stationery shop, where I had the opportunity to develop my social skill with customers and my team work skill as an employee.

Miscellaneous

2016–2017 **Erasmus experience**, Stockholm.
I spent the last year of my master degree in Stockholm thanks to the *Erasmus+* project. That gave me the opportunity to live in a different country and in a large city. There, I experienced a total independent life and made a lot of important experiences useful for my growth as student and, most of all, as person.

summer 2006–2011 **Volunteering**, Summer school camp.
I used to organize summer school camp for children of my town. We worked in group and I expand my skill in the leadership of a group.

Awards

2016 Erasmus + scholarship

Computer skills

Intermediate OpenOffice, Linux, Microsoft Windows, Mathematica
Advanced PYTHON, LaTeX

Languages

Italian Mothertongue
English Advanced   *Fluent in writing and speaking*
Spanish Basic/Learning   *Basic words and phrases only*

Interests

Travelling Discover and live new cultures and countries is for sure one of my goal for the present and the future.

Data analysis Besides my academic work, I like to study and be informed about machine learning and data science in general.

Piano   I took piano lessons for several years, since I was a kid, and it is still a special thing for me.

Sports   I played football for many years in a team, and I still play it sometimes. I also love lots of other sport and physical activities, one in particular is cycling.

Books   Reading has always been vital to me. To learn always new stuff and plunge into books is my thing.

Technologies   I am interested in all technologies regarding both my field of study and not, and I try to keep informed on this topic as much as I can.