






# Paolo Cremonese

PostDoc Researcher

-  UIB @ Palma, Spain
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-  PaoloCremo

## About me

I am a PostDoc researcher at the Universitat de les Illes Balears, in Palma, Spain. I work on gravitational lensing of gravitational waves. I am passionate about technologies, data analysis, travelling and learning new things. Like, for example, how to create a website! You can find it at paolocremonese.com, with more information about me.

## Skills

- Python
- Linux
- LaTeX
- Git
- HTML/CSS
- macOS
- Mathematica
- Slurm
- Apple Keynotes

## Languages

- Italian - Mother Tongue
- English - Fluent
- Spanish - Basics
- Polish - Very Basic

## Interests

- Gravitational Waves & Lensing
- Data Analysis
- Finance and Investments
- Sports, Books & Piano.

## Work Experience

- Current** PostDoc Researcher  
Member of LIGO collaboration.  
Working on Lensing of Gravitational Waves  
UIB, Palma, Spain
- 2018** Internship as Data Scientist  
I worked in a group developing methods and knowledge on how to record and elaborate different type of data, from meteorological to industrial  
DBA Group, Italy

## Projects

- **#research** I investigate the lensing of gravitational waves through theory and data analysis. I use the data from LVK detectors to unveil information about the Universe.
- **#personalfinance & #appdevelop** I am studying to develop a mobile application to keep track of personal finance. The app will make use of a python package I wrote to keep track of expenses and investments that will be public on my github page soon.
- **#website** I designed and coded my own website, where I keep my info, thoughts and different things.

## Education

- 2022** Ph.D. in Physics  
Gravitational lensing of Gravitational Waves  
Szczecin, Poland
- 2017** M.Sc. in Astronomy  
Thesis on lensing of gravitational waves done at Stockholm university  
Padova, Italy & Stockholm, Sweden
- 2015** B.Sc. in Astronomy  
Thesis on dark matter in spiral galaxies  
Padova, Italy

## Main Publications

- #4 Characteristic features of Gravitational Wave lensing as probe of lens mass model
- #3 Breaking the mass-sheet degeneracy with gravitational wave interference in lensed events
- #2 High accuracy on H measurements from gravitational wave lensing events
- #1 The lensing time delay between gravitational and electromagnetic waves

The complete list at [inspirehep.net](http://inspirehep.net)

## Mentions

- #2 Top ArXiv papers from week15, 2021 - S.Vagnozzi Linktoarticle
- #1 Constraining the Hubble Constant with Lensed Gravitational Wave Events - K. Shin - 2019 - Link to article

## Main Conferences

### Talks & Posters

- “Wave-optics in Gravitational Waves lensed events” @ UIB Relativity and Gravity group seminar, 2021/11
- Presented paper #3 @ GWverse, 2021/09; Gravitetex 2021, 2021/08; COSMO '21, 2021/08; Amaldi 14, 2021/07 Cosmology from Home, 2021/07; Ibericos 2021/04
- Presented paper #2 @ Cosmoc controversies, 2019/10
- Member of organizing committee @ The 6th Conference of the Polish Society on Relativity, 2019/09

### Participation

LVK meeting, 2023/03 - 12<sup>th</sup> Iberian Gravitational Waves Meeting, 2022/06 - The 16<sup>th</sup> Iberian Cosmology Meeting, 2022/05 - XIV Tonale Winter School on Cosmology, 2021/12 - 4<sup>th</sup> Azores school on Observational Cosmology, 2021/09 - GW Open Data Workshop #4, 2021/05 - 11<sup>th</sup> Iberian Gravitational Waves Meeting, 2021/06 - Workshop on Gravitational Wave Astrophysics for Early Career Scientists, 2021/05 - First EuCAPT Annual Symposium, May 2021 - Current challenges in gravitational physics, April 2021 - IPARCOS School on Cosmology, 2019/12 - XIII Tonale Winter School on Cosmology, December 2019

The complete list with slides and link to conferences at [paolocremonese.com/CV](http://paolocremonese.com/CV)