



Paolo Cremonese

PostDoc Researcher

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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, finance and learning new things. Like, for example, how to create a website! You can find it at [paolocremone.com](#), with more information about me.

Skills

- | | |
|----------|----------------|
| Python | macOS |
| Linux | Mathematica |
| LaTeX | Slurm |
| Git | |
| HTML/CSS | 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.
Gravitational Waves Data Analysis | 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 build and use models to analyze Gravitational Waves data with a focus on identifying lensed events. Additionally, I am actively contributing to a project aimed at organizing and automating different pipelines for the detection of such events.
- **#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

- #5 Follow-up Analyses to the O3 LIGO-Virgo-KAGRA Lensing Searches
- #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/authors/1859874](#)

Mentions

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

Main Conferences

Talks & Posters

- “Mass-Sheet Degeneracy in Gravitational Wave Lensing” @ NBI - gravity seminar, 2023/12; LVK meeting, 2023/09;
- “Wave Optics in Gravitational Wave Lensing” @ UBC Gravity Seminar, 2023/09
- “Wave-optics in Gravitational Waves lensed events” @ UIB Relativity and Gravity group seminar, 2021/11
- Presented paper #3 @ GWverse, 2021/09; Gravitex 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