

# PAOLO CREMONESE

I am a PhD student at University of Szczecin, Poland.

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 [paolocremo.github.io](https://paolocremo.github.io), with more information about me.



## CONTACT

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🌐 Paolo Cremonese

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## SKILLS

### Programming

Python

LaTeX

Mathematica

HTML/CSS

C



### Operating Systems

Linux

MacOS

Windows



### Languages

Italian

English

Spanish

Polish



## INTERESTS

Technology

Data analysis

Sports

Travelling

Books

Piano

## EDUCATION

📅 2018

📍 University of Szczecin

supervisor: V. Salzano

PhD - Astrophysics

📅 2015 - 2017

📍 Stockholm University -

Università degli studi di Padova

final result: 110L/100

supervisors: E. Mörtzell & S. Matarrese

Thesis' title: Delay in arrival time between Gravitational Waves and Electromagnetic signal due to Gravitational Lensing

Master's Degree - Astronomy

📅 2011 - 2015

📍 Università degli studi di Padova

final result: 98/100

supervisor: A. Pizzella

Thesis' title: Dark matter in spiral galaxies

Bachelor's Degree - Astronomy

## PUBLICATIONS

DETAILED LIST ON PAGE 2

- #3 Breaking the mass-sheet degeneracy with gravitational wave interference in lensed events; *P. Cremonese, J.M. Ezquiaga, V. Salzano*. 2104.07055 - submitted to PRD
- #2 High accuracy on  $H_0$  measurements from gravitational wave lensing events; *P. Cremonese, V. Salzano*. 1911.11786 - *Physics of the Dark Universe* Vol. 28, pag. 100517, 2020
- #1 The lensing time delay between gravitational and electromagnetic waves; *P. Cremonese, E. Mörtzell*. 1808.05886

## MENTIONS

Top ArXiv papers from week 15, 2021

👤 S. Vagnozzi

📅 2021

📄 [sunnyvagnozzi.com/blog](https://sunnyvagnozzi.com/blog)

🔗 Link to article

Constraining the Hubble Constant with Lensed Gravitational Wave Events

👤 K. Shin

📅 2019

📄 [astrobites.org](https://astrobites.org)

🔗 Link to article

## WORK EXPERIENCE

📅 Feb.-July, 2018

📍 DBA group, Treviso, Italy

I worked in a group developing methods and knowledge on how to record and elaborate different type of data, from meteorological to industrial.

Internship, data scientist

## CONFERENCES & DOCTORAL SCHOOL

COMPLETE LIST ON PAGE 2

Workshop on Gravitational Wave Astrophysics for Early Career Scientists, May 2021 - First EuCAPT Annual Symposium, May 2021 - Current challenges in gravitational physics, April 2021 - Ibericos 2021, March 2021 - IPARCOS School on Cosmology, December 2019 - Cosmic controversies, October 2019

## PUBLICATIONS

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Full list of publication can be found (at the links) on ArXiv and on INSPIRE.

Breaking the mass-sheet degeneracy with gravitational wave interference in lensed events

#3

 **P. Cremonese**, J.M. Ezquiaga, V. Salzano

 2021  Submitted to PRD

 [ADS](#), [arXiv](#)

High accuracy on  $H_0$  measurements from gravitational wave lensing events

#2

 **P. Cremonese**, V. Salzano

 2019  Physics of the Dark Universe Vol. 28, pag. 100517, 2020

 [ADS](#), [arXiv](#)

The lensing time delay between gravitational and electromagnetic waves

#1

 **P. Cremonese**, E. Mörtzell


 2018

 [ADS](#), [arXiv](#)

## CONFERENCES & DOCTORAL SCHOOLS

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Workshop on Gravitational Wave Astrophysics for Early Career Scientists

 Lorentz Center, Leiden University, the Netherlands

 3-7 May, 2021

 [web-site](#)


First EuCAPT Annual Symposium


 CERN

 5-7 May, 2021

 [web-site](#)


Current Challenges in Gravitational Physics


 INFN - erc - SISSA - ifpU


 21-28 April, 2021

 [web-site](#)

Ibericos 2021


 Talk given based on 2104.17055

 Universidade de Coimbra

 29 March - 1 April, 2021

 [web-site](#)

IPARCOS School on Gravitational Waves

 Universidad Complutense de Madrid

 18-20 December, 2019

 [web-site](#)


XIII Tonale Winter School on Cosmology

 Heidelberg University, Theoretical Physics and Astrophysics institutes

 9-13 December, 2019

 [web-site](#)

Cosmic controversies

 Poster presented based on 1911.11786

 University of Chicago

 5-8 October, 2019

 [web-site](#)

The 6th Conference of the Polish Society on Relativity

 Member of organizing committee

 University of Szczecin

 23-26 September, 2019

 [web-site](#)