

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 paolocremonese.com, 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



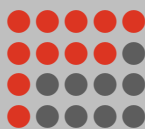
Languages

Italian

English

Spanish

Polish



INTERESTS

Technology

Data analysis

Sports

Travelling

Books

Piano

EDUCATION

📅 2018 - present

📍 University of Szczecin
supervisor: V. Salzano

PhD - Astrophysics

📅 2015 - 2017

📍 Stockholm University -
Università degli studi di Padova

Master's Degree - Astronomy

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

📅 2011 - 2015

📍 Università degli studi di Padova

Bachelor's Degree - Astronomy

final result: 98/100

supervisor: A. Pizzella

Thesis' title: Dark matter in spiral galaxies

PUBLICATIONS

DETAILED LIST ON PAGE 2

#4 Characteristic features of Gravitational Wave lensing as probe of lens mass model; *P. Cremonese, D.F. Mota, V. Salzano. 2111.01163*

#3 Breaking the mass-sheet degeneracy with gravitational wave interference in lensed events; *P. Cremonese, J.M. Ezquiaga, V. Salzano. 2104.07055 - Phys.Rev.D 104 (2021) 2, 023503*

#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

#2 Top ArXiv papers from week 15, 2021 - S. Vagnozzi - 2021 - Link to article

#1 Constraining the Hubble Constant with Lensed Gravitational Wave Events - K. Shin - 2019 - Link to article

WORK EXPERIENCE

📅 Feb.-July, 2018

📍 DBA group, Treviso, Italy

Internship, 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.

















CONFERENCES & DOCTORAL SCHOOL

COMPLETE LIST ON PAGE 3

GWverse, September 2021 - Cosmo '21, August 2021 - Amaldi 14, July 2021 - Cosmology from Home, July 2021 - Workshop on Gravitational Wave Astrophysics for Early Career Scientists, May 2021 - Current challenges in gravitational physics, April 2021 - Ibericos 2021, March 2021 - IPARCOS School on Cosmology, December 2019 - Cosmic controversies, October 2019




PUBLICATIONS

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




- Characteristic features of Gravitational Wave lensing as probe of lens mass model #4
 **P. Cremonese**, D.F. Mota, V. Salzano
 2021  arXiv:2111.01163  [ADS](#), [arXiv](#)
- Breaking the mass-sheet degeneracy with gravitational wave interference in lensed events #3
 **P. Cremonese**, J.M. Ezquiaga, V. Salzano
 2021  Phys.Rev.D 104 (2021) 2, 023503  [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  arXiv:1808.05886  [ADS](#), [arXiv](#)

RESEARCH VISITS

#2 - visit to **D. Keitel**

-  GW lensing data analysis
-  Universitat de les Illes Balears
-  03/11-01/12/2021

#1 - visited **D. Mota**

-  modeling lenses in the context of GW lensing
-  University of Oslo
-  08-15/03/2020

CONFERENCES & DOCTORAL SCHOOLS

Talks & posters

UIB Relativity and Gravitation group seminar

💬 Talk given titled "*Wave-optics in Gravitational Waves lensed events*"

🏛️ UIB

📅 05 November, 2021

🔗 [web-site](#)

GWverse

💬 Talk given based on 2104.07055

🏛️ eCOST

📅 30 August - 03 September, 2021

🔗 [web-site](#)

Gravitex 2021

💬 Talk given based on 2104.07055

🏛️ University of Kwazulu-Natal

📅 9-12 August, 2021

🔗 [web-site](#)

COSMO '21

💬 Poster presented based on 2104.07055

🏛️ University of Illinois

📅 2-6 August, 2021

🔗 [web-site](#)

Amaldi 14

💬 Poster presented based on 2104.07055

🏛️ OzGrav & IUPAP

📅 19-23 July, 2021

🔗 [web-site](#)

Cosmology from Home

💬 Talk given based on 2104.07055

🏛️ @cosmofromhome

📅 5-16 July, 2021

🔗 [web-site](#)

Ibericos 2021

💬 Talk given based on 2104.07055

🏛️ Universidade de Coimbra

📅 29 March - 1 April, 2021

🔗 [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](#)

Participated

4th Azores school on Observational Cosmology

🏛️ Institute of Astrophysics and Space Sciences

📅 06-12 September, 2021

🔗 [web-site](#)

AlteCosmoFun '21

🏛️ University of Szczecin

📅 06-10 September, 2021

🔗 [web-site](#)

GW Open Data Workshop #4

🏛️ LIGO - Virgo Collaboration

📅 10-14 May, 2021

🔗 [web-site](#)

11th Iberian Gravitational Waves Meeting

🏛️ Astronomy and Astrophysics Department (DAA) and the Mathematics Department (DM) of the University of Valencia

📅 9-11 June, 2021

🔗 [web-site](#)

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](#)

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](#)