

PAOLO CREMONESE

I am a PhD student at the 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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📱 @PaoloCremo

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.

RESEARCH VISITS

DETAILED LIST ON PAGE 2

- D. Keitel @ UIB in November 2021

- D. F. Mota @ UiO in March 2020

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 - 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 - submitted to PRD

 [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](#)