



# Pietro Benotto

## Curriculum Vitae

### Personal details

Full name Pietro Benotto  
Birth date 31/07/2000  
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### Education

2024–now **Ph.D. in astronomy**, *Università degli Studi di Padova, INAF OAPd, Padova.*  
2019–2025 **'Diploma di Licenza' in Physics**, *Scuola Normale Superiore, Pisa, 100/100 cum Laude.* Second-level University Master's Degree, *EQF: level 8.*  
2022–2024 **Master's Degree in Astrophysics**, *Università di Pisa, Pisa., 110/110 cum Laude.* Investigating the star formation history of galaxies in the first billion years of the Universe.  
2019–2022 **Bachelor's Degree in Physics**, *Università di Pisa, Pisa, 110/110 cum Laude.*  
2014–2019 **Secondary school**, *I.I.S. 'G.Vallauri', Fossano, 100/100 cum Laude.*

### Internships

2018–2019 **'Physics week in Pisa'**, *Scuola Normale Superiore, Pisa.* Advanced seminars on the Physics Olympiad.  
2017–2019 **Advanced school 'Ad un passo dalle Ipho'**, *OliFis, ICTP, Trieste.*  
2017–2018 **Summer school on the Physics Olympiad**, *OliFis, Sigillo, PG.*  
2016 **Internship at the Galileo National Telescope (TNG)**, *SAIt, Roque de los Muchachos Observatory, La Palma, Spain.*  
2015–2016 **Summer school on Astronomy**, *SAIt.* Seminars and lectures on the Astronomy Olympiad.

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## Experience

- 2025 **'Ad Astra' Astrophysics Educator for High School Students**, *Liceo Scientifico 'G. Ancina'*, Fossano.  
Led the creation of an interactive astrophysics experience for high school students, immersing them in the world of scientific research. Developed Python tools for analyzing the rotational curves of galaxies and guided students through team-based, competitive projects on the cosmic distance ladder. Students engaged with mock scientific articles and presented their findings in concise peer-to-peer presentations.
- 2023–now **Night Sky Guide**, *Astronomitaly*, Italy-France.  
Leading stargazing sessions and telescope observations, helping people explore the wonders of the night sky while uncovering the basic physics behind celestial objects.
- 2024 **'Ad Astra' laboratory projects with high school students**, *Liceo Scientifico 'G. Ancina'*, Fossano.  
Designed educational experiments to engage and explain scientific concepts to high school students. The experience included ten hours of interactive discussions and hands-on demonstrations with students, culminating in a final day where students present their experiments to the public.
- 2024 **Guest Speaker for High School Students**, *I.I.S. 'G. Vallauri'*, Fossano.  
Gave a talk at an educational conference attended by more than 300 high school students. Main topics: The James Webb Telescope and high-redshift galaxies.
- 2022 **Organizer of the first Italian Physics Team Competition**, Pisa - Senigallia.  
Proposed and reviewed problems for the high school student competition.  
On the day of the competition, coordinated spaces and supervised competition operations.  
Responsible for event photography.
- 2020–2021 **Teacher at the 'Physics Week in Pisa'**, *Scuola Normale Superiore*, Pisa.  
Prepared and presented a lesson for secondary school students from the physics week internship:
  - Produced lecture notes in  $\text{\LaTeX}$ ;
  - Conducted a two-hour lecture;
  - Guided students in solving exercises related to the lecture.

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## Awards

### Physics Olympiad

- 2019 Bronze medal at the 50th IPhO (International Physics Olympiad) in Tel Aviv, Israel.  
Bronze medal at the 3rd EuPhO (European Physics Olympiad) in Riga, Latvia.  
Gold medal and special award for the best experimental elaborate in the Italian competition.
- 2018 Silver medal in the Italian competition.
- 2017 Bronze medal in the Italian competition.

### Mathematics Olympiad

- 2019 Special mention at the National Mathematics Olympiad.

### Astronomy Olympiad

- 2017 Winner of the Italian competition (Senior category).

- 2016 Bronze medal in the 21st IAO (International Astronomy Olympiad) in Pamporovo, Bulgaria.  
Winner of the Italian competition (Senior category).
- 2015 Silver medal and special award for the best observational work in the 20th IAO (International Astronomy Olympiad) in Kazan, Russia.  
Winner of the Italian competition (Junior category).

### Miscellaneous

- 2019 Prize 'I fuoriclasse della scuola': Awarded for the results achieved in the physics competitions.

## Computer skills

■ ■ ■ ■ ■	basic knowledge	■ ■ ■ ■ ■	extensive project experience
■ ■ ■ ■ ■	intermediate knowledge with some project experience	■ ■ ■ ■ ■	deepened expert knowledge
		■ ■ ■ ■ ■	expert / specialist

	Level	Skill	Comment
Scientific Tools	■ ■ ■ ■ ■	Python	<i>Good knowledge of NumPy, SciPy, Matplotlib, Photutils, and Astropy. In-depth knowledge of Bagpipes for both photometric and spectroscopic SED fitting.</i>
	■ ■ ■ ■ ■	C	
	■ ■ ■ ■ ■	C++	
	■ ■ ■ ■ ■	L <sup>A</sup> T <sub>E</sub> X	
Web Design	■ ■ ■ ■ ■	HTML5, CSS3	<i>Frequent L<sup>A</sup>T<sub>E</sub>X user with experience in TikZ for creating diagrams.</i>
	■ ■ ■ ■ ■	Angular	
OS	■ ■ ■ ■ ■	Debian	<i>Daily Debian user with working proficiency.</i>
	■ ■ ■ ■ ■	Windows	
Other	■ ■ ■ ■ ■	Microsoft Office suite	
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## Publications

### First author's papers

- 2025 **P. Benotto**, B. Vulcani, P. J. Watson, et al. "Spatially-resolved PAH<sub>3.3</sub> emission and stellar ages in ram pressure stripped clumps at  $z \sim 0.3$ ". In: *arXiv e-prints*.

### Papers as Co-author

- 2025 G. Gandolfi, G. Rodighiero, L. Bisigello, et al. "Ultra High-Redshift or Closer-by, Dust-Obscured Galaxies? Deciphering the Nature of Faint, Previously Missed F200W-Dropouts in CEERS". In: *arXiv e-prints*. DOI: [10.48550/arXiv.2502.02637](https://doi.org/10.48550/arXiv.2502.02637).

### Press releases

- 2021 **P. Benotto**, A. Lombardi, A. Matteri. "Optics Essentials". [stagefisica.sns.it](https://stagefisica.sns.it)
- 2016 **P. Benotto**. "Amateur astronomers and exoplanets. How I traced the light curve of an exoplanet". In: *Coelum Astronomy*.

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## Conferences and Schools

- 2025 **Tracing Cosmic Evolution with Galaxy Clusters V**, *Sexten*.  
*Poster*: PAH Emission and Age Properties of Ram Pressure Stripped Galaxies at  $z \sim 0.3$
- INAF PhD School Francesco Lucchin**, *Asiago*., From the solar system to high redshift galaxies

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## Languages

- Italian Mother tongue.
- English First Certificate in English (FCE), passed with Grade B in 2018.
- French Basic French proficiency (limited to simple words and phrases).

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## Interests

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|---------------|--------------------|
| ○ Photography | ○ Stargazing       |
| ○ Hiking      | ○ Running and MTB  |
| ○ Boardgames  | ○ Website creation |