

Cristina Maria Lofaro



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🌐 [Google Scholar](#)

🔖 [Cristina Maria Lofaro](#)

🌐 <https://www.ia.forth.gr/index.php/people/Lofaro>

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Education

- 09/2026 – Present 📖 **Postdoctoral Scholar, University of Kentucky, Department of Physics and Astronomy.**
- 11/2022 – 06/2026 📖 **Ph.D. in Astrophysics, University of Crete.**
Thesis title: *An Infrared Study of the Extended Interstellar Medium of Extreme, Luminous Infrared Galaxies*
Supervisor: Dr. Tanio Díaz-Santos.
- 09/2019 – 09/2021 📖 **M.Sc. in Astrophysics and Cosmology, University of Padua.**
Thesis title: *Spatially resolved scaling relations in nearby galaxies: stellar mass assembly constraints from their star formation histories*
Grade: 110/110 *cum laude*, Advisor: Prof. Giulia Rodighiero.
- 10/2016 – 10/2019 📖 **B.Sc. in Astronomy, University of Padua.**
Thesis title: *Formation and Evolution of Proto-Galaxy Clusters: A Perspective on the SPICA Mission*
Grade: 99/110, Advisor: Prof. Giulia Rodighiero.

Employment History

- 11/2021 – 06/2022 📖 **Scholarship** "Scaling relations in nearby galaxies: the interplay of stars, dust and gas."
University of Padua. Advisor: Prof. Giulia Rodighiero
- 10/2021 – 09/2022 📖 **Tutoring and private lessons** for high school and university courses.

Skills

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| Languages | 📖 Italian (native language)
English: Fluent (Listening: C1, Reading: B2, Writing: B2) |
| Coding | 📖 Python |
| Astronomy software | 📖 CAFE , CLOUDY , MAGPHYS , and BAGPIPES . |
| Data analysis | 📖 Reduction and calibration of <i>JWST</i> spectra, spectral fitting of <i>Spitzer</i> and <i>Herschel</i> data, and multi-wavelength SED analysis. |
| Modeling and interpretation | 📖 Radiative-transfer and photoionization modeling with <i>CLOUDY</i> , SED fitting with <i>MAGPHYS</i> and <i>BAGPIPES</i> , and Bayesian comparison of observations with theoretical predictions. |
| Teaching Experience | 📖 Teaching assistant at the 2024 Summer School for Astrostatistics, University of Crete, Heraklion, Greece. |

Participation in Conferences & Schools

- 16–18/09/2025 📖 **Annual Team Meeting for the GOALS Collaboration** (virtual).
Oral presentation: "Probing the resolved ISM in nearby infrared galaxies from the GOALS sample".

Participation in Conferences & Schools (continued)

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| 19–23/05/2025 | ■ 2nd IAA-CSIC Severo Ochoa Advanced School on Galaxy Evolution, Granada, Spain. |
| 09/2024 | ■ Annual Team Meeting for the GOALS Collaboration (virtual).
Oral presentation: “ <i>Probing the resolved ISM in nearby infrared galaxies from the GOALS sample</i> ”. |
| 08–14/06/2024 | ■ Cosmic Odysseys 2024, Agios Nikolaos, Greece.
Oral presentation: “ <i>Probing the resolved ISM in nearby infrared galaxies from the GOALS sample</i> ”. |
| 19/03/2024 | ■ Seminar at the University of California, Irvine. |
| 24/07–02/08/2023 | ■ International Summer School on the ISM of Nearby Galaxies, Banyuls-sur-Mer, France. |
| 19–23/07/2023 | ■ Summer School for Astrostatistics, Heraklion, Greece.
University of Crete. |

Visiting Program

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| 02/02–30/04/2024 | ■ Visit at the Infrared Processing and Analysis Center (IPAC), California Institute of Technology (Caltech), Pasadena, CA, USA.
The visit aimed to collaborate with Dr. Lee Armus on projects related to upcoming observations with the <i>James Webb Space Telescope (JWST)</i> as part of the Early Release Science program <i>A JWST Study of the Starburst-AGN Connection in Merging LIRGs</i> led by Dr. Armus.
The work focused on the continued development and testing of a spectral fitting tool for the analysis of three-dimensional spectral cubes obtained with the MIRI instrument on <i>JWST</i> . |
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