Annalisa Pagliotta

♣ 8th December 2000, Bolzano, Italy

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Short Overview

I am a PhD student in Astrophysics at the Department of Physics and Astronomy at the University of Bologna. I work in the field of extragalactic astrophysics, using radio observation both in total intensity and polarisation. In particular, my research is dedicated to the study of magnetic fields in large-scale structures such as galaxy clusters and proto-clusters.

Education

Nov. 2024 – present PhD in Astrophysics – DiFA, University of Bologna

Thesis: Magnetic Fields in Proto-clusters

Supervisor: Prof. Dr. Annalisa Bonafede (DiFA, INAF - IRA, Bologna)

Co-supervisors: Dr. Christopher J. Riseley (AIRUB, Bochum); Dr. Chiara Stuardi (INAF

- IRA, Bologna)

Sep. 2022 – Oct. 2024 **Master Degree in Astrophysics and Cosmology** – DiFA, University of Bologna

Thesis: Constraining the magnetic field in the galaxy cluster Abell 2142 using MeerKAT L-

band polarisation data

Supervisor: Prof. Dr. Annalisa Bonafede (DIFA, INAF - IRA, Bologna)

Co-supervisor: Dr. Christopher J. Riseley (AIRUB, Bochum)

Grade: 110/110 cum laude Link: amslaurea.unibo.it/33255

Sep. 2019 – Sep. 2022 **Bachelor Degree in Astronomy** – DiFA, University of Bologna

Thesis: Dynamics of collisional systems

Supervisor: Prof. Marcella Brusa (DiFA, INAF - OAS, Bologna)

Grade: 109/110

Link: amslaurea.unibo.it/26566

Internship in Scientific Dissemination – INAF - IRA

Sep. 2014 – Jul. 2019 🗧 Scientific High School Diploma – Scientific High School Evangelista Torricelli',

Bolzano Grade: 100/100

PhD Schools and Workshops

Jul. 14 – 18, 2025 **MeerKAT polarization workshop** – INAF - IRA

Certificates

Level: B2

Apr. 2018 📕 Goethe-Institut

Level: B2

International Seminars and Conferences

I was invited to give 1 talk at international institutes. Also, I gave 5 contributed talks at international meetings.

Invited Seminars

Oct. 23, 2024

INAF - IRA – Bologna, Italy

Constraining the magnetic field in the galaxy cluster Abell 2142 using MeerKAT L-band polarisation data

Contributed Talks at Conferences

Magnetic Fields in Proto-clusters

Awards

Awarded to university students and recent graduates demonstrating outstanding academic performance based on exams taken and degree completion between November 2023 and October 2024 at Italian universities or higher technical education institutions in Italy

Feb. 2024 Academic Incentive Award – University of Bologna

Granted to students enrolled in the 2023/2024 academic year, matriculated in the 2022/2023 academic year in STEM-related programs, and selected based on merit

Dec. 2020 Academic Incentive Award – University of Bologna

Granted to students enrolled in the 2020/2021 academic year, matriculated in the 2019/2020 academic year in programs considered of national interest, and selected based on merit

Academic Activity

Nov. 2025 - present PhD students' representative – DiFA, University of Bologna

- Mediation between PhD students and higher governing bodies
- Representation of the PhD student community in activities related to the educational, organisational, and evaluation processes of the PhD programme

- Role of student representative
 - Mediation between DIFA students and higher organs
 - Definition of objectives based on the prominent interest activities and the relative availability of structures, services and equipment

Dec. 2022 - Oct. 2023 Student Tutor of Astronomy Bachelor – University of Bologna

- Role of interface between students and course organization
- Role of concrete point of reference for finding general information (course access, study plan, timetable, ...)
- Personalised learning support for students worker and students athlete

Outreach Activity

Nov. 2023 – present Scientific Disseminator – MUA of Bolzano

- Organisation of astronomical events at the 'Max Valier' Observatory (San Valentino, Italy)
- Guided explanation of the night sky and mythological tales narration
- Observation with the telescope

Languages

Mother Tongue – Italian

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Other Tounges – English (B2), German (B2)

Technical Skills

Programming Languages – Python, FORTRAN 90, Rstudio,
Software for Astrophysics – NRAO CASA, WSClean, CIRADA RM-TOOLS, IDL, ds9, SAS HEASOFT
Operating Systems – Linux, Windows
Presentation Software - LaTeX, PowerPoint

Publications Summary

The results of my research are being published on astrophysical journals. I have 1 paper as first-author published on A&A.

Publications

1. Pagliotta, A., Riseley, C. J., Bonafede, A., Stuardi, C., and Loi, F., "Constraining the magnetic field in the galaxy cluster Abell 2142 using MeerKAT L-band polarisation data," *A&A*, 700, A139, Aug. 2025. **②** DOI: 10.1051/0004-6361/202554881.