

Giacomo Mantovan

Curriculum Vitae

Università degli studi di Padova
Dipartimento di Fisica e Astronomia
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🌐 GMantovan

Educational Background

2020

PhD in Astronomy, *Università degli Studi di Padova* (hereafter Unipd), Padova, Italy.

2018

2020

MSc in Astronomy, *Unipd*, Padova, Italy.

2015

2018

BSc in Astronomy, *Alma Mater Studiorum - Università di Bologna*, Bologna, Italy.

Theses

PhD Thesis

TITLE Validation of TESS exoplanet candidates orbiting Solar-type stars
ADVISORS Professor Giampaolo Piotto, Dr Marco Montalto
FUNDING AGENCY Unipd

MSc Thesis

TITLE Validation of candidate exoplanets discovered by TESS
ADVISORS Professor Giampaolo Piotto, Dr Marco Montalto
FINAL GRADE Summa Cum Laude

BSc Thesis

TITLE Classification of galaxies: morphological, photometric and kinematic characteristics
SUPERVISOR Prof. Daniele Dallacasa
FINAL GRADE 102/110

Research Interests

GALACTIC ASTROPHYSICS

- Exoplanet Validation
- Exoplanet Confirmation
- Architecture of exoplanets
- Optical Astrophysics

Affiliations

Scientific

- ITALY** Istituto Nazionale di Astrofisica Italiana (hereafter **INAF**)
- ITALY** Unipd
- UK** University of St Andrews, Centre for Exoplanet Science (hereafter **StACES**)

Outreach

2021

Notte dei Ricercatori - Veneto Night 2021, Padova, Italy.

Languages

- Italian Native
- English B2 level *Attendance certificate, School of Science, University of Padova*
- German A1 level *Basic Understanding, Basic Speaking, Basic Writing*

Skills

- Programming Python (Advanced), Fortran (Intermediate), Matlab (Intermediate), R (Foundation), HTML (Foundation), Supermongo (Basic), \LaTeX (Advanced)
- Tools GitHub
- Softwares in data analysis DS9, TOPCAT
- Operating systems Linux (Advanced), Microsoft Windows (Highly Specialised)
- Office Suite LibreOffice (Advanced), Microsoft Office (Advanced)
- Raste graphic editor GIMP (Intermediate)

Participation In Events

Conferences

2022

The National Astronomy Meeting (NAM) 2022, The University of Warwick (England).

POSTER TITLE Validation of TESS exoplanet candidates orbiting solar analogues in the all-sky PLATO input catalogue

2022

Scottish Exoplanet/Brown Dwarf Spring meeting, St. Andrews (Scotland).

TALK TITLE Validation of TESS candidates orbiting PLATO, Solar-analog star targets (15min)

2021

TESS Science Conference II, US (Online).

POSTER TITLE Validation of TESS candidates orbiting Solar-type stars

2021

PLATO Mission Conference, Online.

POSTER TITLE Validation of TESS exoplanet candidates orbiting Solar-analog stars

Conventions

2022

StA-CES Journal Club, St. Andrews (Scotland).

TALK TITLE Validation of TESS candidates orbiting PLATO, Solar-analog star targets (30min, invited talk)

2021

Scientific Communication in Astronomy School 2021, Bertinoro, Italy.

TALK SPRITZ talk (5min)

2021

RED Astronomy School 2021 "Astrobiology Introductory Course", France (Online).

TALK PhD project presentation (2min)

Other Certificates

English

Language assessment result (CEFR Level C1)

OLS language assessment, Erasmus+ (EU), 7 Mar 2022

Attendance certificate (Academic English for PhD, 30hrs)

University of Padova Language Centre (IT), 1 Jan 2022

Attendance certificate (Intermediate Level B2)

School of Science, University of Padova (IT), 31 Jan 2020

Observing Experience and Proposals

Observational Proposals

2022

INAF AOT46 call, 10hrs of HARPS-N radial velocity follow-up, **PI**.

2022

INAF AOT46 call, 60hrs of multi-band REM images, **PI**.

2022

CNTAC 2022B call, 2 nights of Magellan/IMACS images, **co-PI**.

In charge of: scientific rationale, target selection, and technical description.

2021
2022

INAF AOT44 call, 60hrs of multi-band REM images, **PI**.

Grants

2021

Erasmus+ for Traineeship grant, Padova, University of Padova, state for euros 2400€.

2020

PhD Scholarship, Padova, University of Padova, state for euros 46k€.

2018

Maestro Elio Todeschi Scholarship, Rovereto, Cassa rurale, state for euros 300€.

Publications

- [Mantovan et al., 2022] Mantovan, G., Montalto, M., Piotto, G., Wilson, T. G., Collier Cameron, A., Zahra Majidi, F., Borsato, L., Granata, V., and Nascimbeni, V. (2022). **Validation of TESS exoplanet candidates orbiting solar analogues in the all-sky PLATO input catalogue.** *arXiv e-prints*, page arXiv:2208.12276.
- [Montalto et al., 2022] Montalto, M., Malavolta, L., Gregorio, J., **Mantovan, G.**, Desidera, S., Piotto, G., Nascimbeni, V., Granata, V., Manthopoulou, E. E., and Claudi, R. (2022). **TIC 257060897b: An inflated, low-density, hot-Jupiter transiting a rapidly evolving subgiant star.** *MNRAS*, 509(2):2908–2919.
- [Nardiello et al., 2021] Nardiello, D., Deleuil, M., **Mantovan, G.**, Malavolta, L., Lacedelli, G., Libralato, M., Bedin, L. R., Borsato, L., Granata, V., and Piotto, G. (2021). **A PSF-based Approach to TESS High quality data Of Stellar clusters (PATHOS) - IV. Candidate exoplanets around stars in open clusters: frequency and age-planetary radius distribution.** *MNRAS*, 505(3):3767–3784.

References

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