

Giacomo Mantovan

Curriculum Vitae

Università degli studi di Padova
Dipartimento di Fisica e Astronomia
Vicolo dell'osservatorio 3
Padova, Italy
☎ +39 3409313751
✉ giacomo.mantovan@phd.unipd.it
📄 <https://gmantovan.github.io/>
🌐 GMantovan

Educational Background

2020	PhD in Astronomy , <i>Università degli Studi di Padova</i> (hereafter Unipd), Padova, Italy.
2018 2020	MSc in Astronomy , <i>Unipd</i> , Padova, Italy.
2015 2018	BSc in Astronomy , <i>Alma Mater Studiorum - Università di Bologna</i> , 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

EXOPLANETS	<ul style="list-style-type: none">○ Exoplanet Validation○ Exoplanet Confirmation○ Architecture of exoplanets○ Optical Astrophysics
-------------------	---

OTHERS ○ Astrostatistics

Affiliations

Scientific

ITALY Istituto Nazionale di Astrofisica Italiana (hereafter **INAF**)

ITALY Unipd

UK University of St Andrews, Centre for Exoplanet Science (hereafter **StACES**)

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**.

Studies and experiences abroad

2022

European Union Program, Erasmus + traineeship, University of St Andrews **StACES** (Scotland), duration 6 months.

Research visiting period at the University of St. Andrews (Scotland), under the supervision of Professor Andrew Cameron, from 01/03/2022 to 31/08/2022.

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)

Languages

Italian Native

English B2 level

Attendance certificate, School of Science, University of Padova

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

Grants

2022

COST Association reimbursement (Exoplanets and astro-statistical analysis techniques Summer School), Geneva, COST Association, state for euros 1300€.

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€.

Participation In Events

Invited Talks

2022

Validation of TESS candidates orbiting PLATO, Solar-analog star targets, *StA-CES Journal Club*, StA-CES, St. Andrews (Scotland).
Duration: 30 min

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

Exoplanets and astrostatistical analysis techniques Summer School, Geneva (Switzerland).

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)

Outreach

2021

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

Publications

- [Mantovan et al., 2022] Mantovan, G., Montalto, M., Piotto, G., Wilson, T. G., Collier Cameron, A., Majidi, F. Z., Borsato, L., Granata, V., and Nascimbeni, V. (2022). **Validation of TESS exoplanet candidates orbiting solar analogues in the all-sky PLATO input catalogue**. *MNRAS*, 516(3):4432–4447.
- [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

Giacomo Mantovan

PhD Student in Astronomy

Dipartimento di Fisica e Astronomia "G. Galilei"

Università degli Studi di Padova

Vicolo dell'Osservatorio 3, 35122 Padova, Italy

✉ giacomo.mantovan@phd.unipd.it

☎ +39 3409313751