

# 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  
🌐 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

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## Affiliations

### Scientific

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

**ITALY** Unipd

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

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## Outreach

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2021

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

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## Languages

Italian Native

English B2 level *Attendance certificate, School of Science, University of Padova*

German A1 level *Basic Understanding, Basic Speaking, Basic Writing*

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## Skills

Programming Python (Advanced), Fortran (Intermediate), Matlab (Intermediate), R (Foundation), HTML (Foundation), Supermongo (Basic),  $\text{\LaTeX}$  (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)

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## Participation In Events

### Conferences

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2022

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

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

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2021

**TESS Science Conference II**, US (Online).

**POSTER TITLE** Validation of TESS candidates orbiting Solar-type stars

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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

- 2021 ● **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

- [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.

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## 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](mailto:giacomo.mantovan@phd.unipd.it)

☎ +39 3409313751

Centre for Exoplanet Science

SUPA School of Physics and Astronomy

University of St Andrews

North Haugh, St Andrews KY16 9SS, UK

✉ [gm306@st-andrews.ac.uk](mailto:gm306@st-andrews.ac.uk)