

# Giacomo Mantovan

## Curriculum Vitae

Università degli studi di Padova  
Dipartimento di Fisica e Astronomia  
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## 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

**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

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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

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€.

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## 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

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