Giacomo Mantovan

Curriculum Vitae

Università degli studi di Padova
Dipartimento di Fisica e Astronomia
Vicolo dell'osservatorio 3
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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).
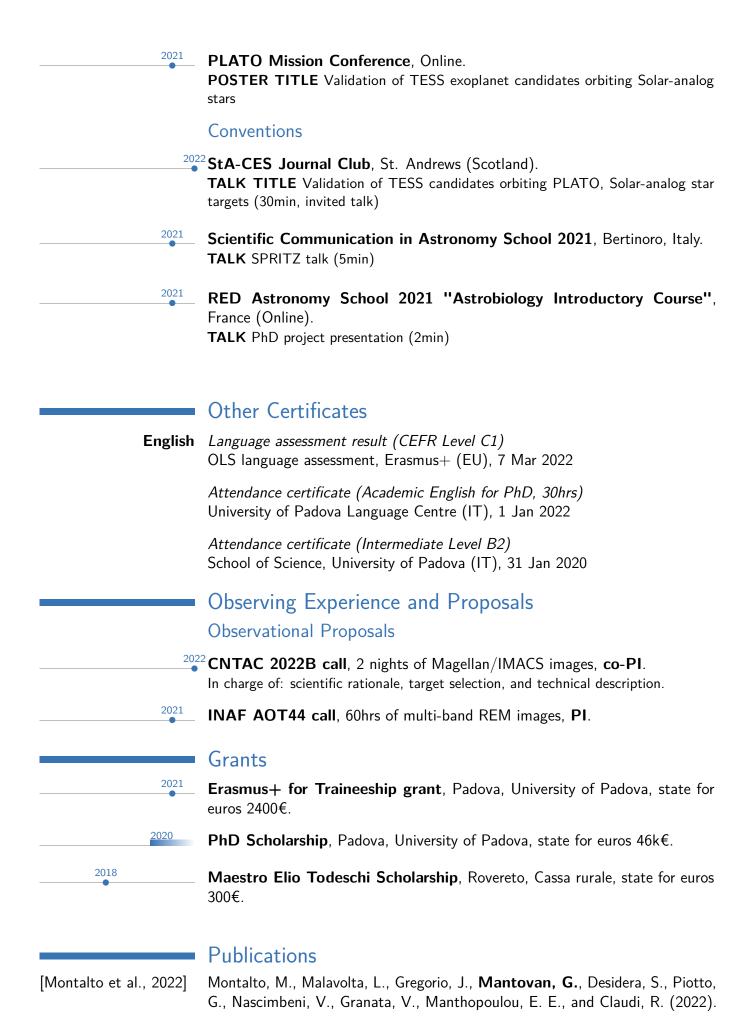**POSTER TITLE** Validation of TESS exoplanet candidates orbiting solar analogues in the all-sky PLATO input catalogue

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 **CNTAC 2022B call**, 2 nights of Magellan/IMACS images, **co-PI**.
In charge of: scientific rationale, target selection, and technical description.

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.

References

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