

MARIA MASTROPIETRO

ASTRONOMY PHD
RESEARCHER

Birth date: 28/10/1995
Nationality: Italian
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COMPUTER SKILLS

- Windows and Ubuntu operating systems
- Python, Matlab, LaTeX
- IRAF, DAOPHOT, SAOImage DS9
- ArcGIS Esri
- DRAGONS, EsoRex

SOFT SKILLS

- Advanced analytical skills
- Attention to details
- Work both in team and in autonomy
- Very good communication skills
- Good stress-management skills
- Empathy

PUBLICATIONS

- Author: "Boulder Analysis on the Oxia Planum ExoMars 2022 Rover Landing Site: Scientific and Engineering Perspectives" (Mastropietro et al., 2020), Solar System Research.
- Coauthor: "Mass Movement Reconstruction and Boulder Size-Frequency Distribution of a 3.4 km-Long Martian Landslide Located in Simud Vallis" (Pajola et al., 2022), 53rd Lunar and Planetary Science Conference.
- Coauthor: "Modelling reconstruction and boulder size-frequency distribution of a young (<5 Myr) landslide located in Simud Vallis floor, Mars" (Pajola et al., 2022), Icarus.
- Coauthor: "A possible inverted riverbed in NE Eridania basin, Mars. Origin and timing of fluvial activity" (Pajola et al., 2019), EPSC.



WORKING EXPERIENCE

PhD Researcher - Astronomy and Physics

Institute for Geophysics and extraterrestrial Physics (TU Braunschweig) | June 2021 - Present

Dust emission from main-belt comets research

High school teacher

Liceo Artistico Modigliani (Padova) | October 2020 - May 2021

- Maths
- Physics
- Civic education

Maths and Physics tutor

Private | June 2016 - May 2021

Excellentlly tutored students from 11 to 14 years old



EDUCATION

24 Credits for teaching

Post graduate certification (eCAMPUS Telematic University, Padova) | November 2019 - January 2020

- Antro-psycho-pedagogic disciplines
- Teaching methodologies and technologies

Master's degree in Astronomy

Padova University | September 2017 - September 2019

- Astrobiology, Physics of Planets. Celestial Mechanics
- Specialized skills in Astrophysics
- Final Grade: 110/110

Bachelor's degree in Astronomy

Padova University | September 2014- October 2017

- Scientific studies (Maths, Physics, Chemistry)
- Astronomy, Astrophysics, Cosmology, Quantum Physics
- Final Grade: 100/110



LANGUAGES KNOWLEDGE

Italian: NATIVE

English: B2 IELTS, very good working proficiency

German: Elementary proficiency