

Flavio
Petricca

DATE OF BIRTH:
06/01/1995

CONTACT

Nationality: Italian

Gender: Male



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EDUCATION AND TRAINING

11/2014 – 07/2017

B.Sc. Aerospace Engineering

Sapienza Università di Roma

110/110 with honors | Analysis of an Orbiter-Probe Radio Link for a Mission to Venus

11/2017 – 10/2019

M.Sc. Space and Astronautical Engineering

Sapienza Università di Roma

110/110 with honors | Preliminary Design of an Inter-Satellite Radio Tracking System

11/2019 – CURRENT

Ph.D. Aeronautical and Space Engineering

Sapienza Università di Roma

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S): English / Russian

DIGITAL SKILLS

Programming Languages

Python / C / FORTRAN / MATLAB

Orbit Determination Software

JPL MONTE Navigation Toolkit / GSFC GEODYN

Operating Systems

Linux / Mac OS / Windows

PUBLICATIONS

- **Petricca, F., Del Vecchio, E., Fiore, M., Lazzaro, A., Valeriani, A., Pollice, L. & Gaudenzi, P., Experiencing a concurrent engineering environment for the preliminary design of a mission to Titan, AIDAA XXV International Congress**
2019
- **Cascioli, G., Petricca, F., Genova, A., Mars' atmospheric calibration of radio tracking data for precise orbit determination, Acta Astronautica**
2020 <https://doi.org/10.1016/j.actaastro.2020.07.019>
- **Petricca, F., Cascioli, G. & Genova, A., A Technique for the Analysis of Radio Occultation Data to Retrieve Atmospheric Properties and Associated Uncertainties, Radio Science**
2021 <https://doi.org/10.1029/2020RS007205>
- **Genova, A., & Petricca, F., Deep-Space Navigation with Intersatellite Radio Tracking, Journal of Guidance, Control, and Dynamics**
2021 <https://doi.org/10.2514/1.G005610>
- **Petricca, F., Cascioli, G. & Genova, A., Analysis of radio occultation data to determine atmospheric profiles and associated uncertainties, EGU General Assembly 2021**
2021 <https://doi.org/10.5194/egusphere-egu21-12816>
- **Andolfo, S., Gargiulo, A. M., Petricca, F., di Stefano, I. & Genova, A., Safe Navigation and Visual Odometry-based Localization for Planetary Exploration Rovers, EGU General Assembly 2021**
2021 <https://doi.org/10.5194/egusphere-egu21-15702>
- **Andolfo, S., Petricca, F. & Genova, A., Rovers Localization by using 3D-to-3D and 3D-to-2D Visual Odometry, IEEE Metrology for Aerospace 2021**
2021
- **Del Vecchio, E., Petricca, F. & Genova, A., Path planning and stereo vision-based map update for NASA's Mars 2020 Perseverance rover, AIDAA XXVI International Congress, 2021**
2021