

## CV of Dr. Maria Luisa Moriconi

### Personal data

Nationality: Italian

Work address: CNR-ISAC, Via del Fosso del Cavaliere, 100 - 00133 Rome, Italy

Office telephone: +39 06 49934357

E-mail: [m.moriconi@isac.cnr.it](mailto:m.moriconi@isac.cnr.it)

### Education

- Graduated in Physical Sciences at “La Sapienza” University in Rome with 110/110.

### Relevant professional experience

- 36 years' experience in atmospheric research and data analysis at Institute of Atmospheric and Climatic Sciences – CNR (Italy)
- Co-Investigator of the Jovian InfraRed Auroral Mapper (JIRAM) project for the JUNO mission to Jupiter by NASA to study Jupiter's auroras and hot spots..
- Deputy Principal Investigator of the NASA Research NNH11ZDA001N-CDAPS **Seasonal variability of the chemical composition of the Titan's upper atmosphere.**
- Associated Scientist at the Istituto Nazionale di Astrofisica (INAF) (2005 - present).

### Recent National Professional roles

- Ministero dell'Istruzione, dell'Università e della Ricerca Dipartimento per l'Università, l'Alta Formazione Artistica, Musicale e Coreutica e per la Ricerca. **Official Referee.**

### Selected recent publications

- *Moriconi M.L., et al.: Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones from Juno/JIRAM, JGR-Planets, doi: 10.1029/2019JE006096 (2020).*
- *A. Migliorini, ..., M.L. Moriconi et al.: H3 + characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM, Icarus, doi: 10.1016/j.icarus.2019.04.003 (2019)*
- *Adriani A., Moriconi M.L. et al.: Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno, The Astronomical Journal, doi: 10.3847/1538-3881/aae525 (2018)*
- *A. Adriani, ..., M. L. Moriconi et al.: Clusters of cyclones encircling Jupiter's poles, Nature, doi: 10.1038/nature25491 (2018).*
- *Moriconi M.L., et al.: Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions, GRL, doi: 10.1002/2017GL073592, (2017).*
- *G. Sindoni, ..., M.L. Moriconi, et al.: Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument, GRL, doi: 10.1002/2017GL072940, (2017).*
- *Moriconi M.L., et al.: Processing tools refinement for the JIRAM arrival to Jupiter, EPJP, doi: 10.1140/epjp/i2017-11548-y, (2017)*
- *F. Altieri, ..., M.L. Moriconi, et al.: Mapping of hydrocarbons and H3 + emissions at Jupiter's north pole using Galileo/NIMS data, GRL, doi: 10.1002/2016GL070787, (2016)*
- *A. Adriani, ..., M.L. Moriconi, et al.: JIRAM, the Jovian Infrared Auroral Mapper, Space Sci Rev, doi: 10.1007/s11214-014-0094-y (2014)*
- *B.M. Dinelli, ..., M.L. Moriconi, et al.: An unidentified emission in Titan's upper atmosphere, GRL, doi:10.1002/grl.50332, (2013).*
- *M. Lopez-Puertas, ..., M.L. Moriconi, et al.: Large abundances of PAHs in Titan's upper atmosphere, ApJ, doi:10.1088/0004-637X/768/1/1, (2013).*
- *Garcia-Comas M., ..., M.L. Moriconi, et al.: Analysis of Titan CH4 3.3 μm upper atmospheric*

*emission as measured by Cassini/VIMS, ICARUS, doi: 10.1016/j.icarus.2011.03.020,(2011).*

- *Adriani A., ..., M. L. Moriconi, et al.: Distribution of HCN in Titan's Upper Atmosphere from Cassini/VIMS Observations at 3 microns, ICARUS, doi:10.1016/j.icarus.2011.04.016.,(2011).*
- *Moriconi M.L., et al.: Characterization Of Titan Ontario Lacus' Region From Cassini/Vims Observations, ICARUS doi:10.1016/j.icarus.2010.07.023., (2010)*