

## Dr. Laurent JORDA

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### Education

Oct. 1992 – Dec. 1995	PhD thesis in Astrophysics at Paris-Meudon Observatory - Université Paris Diderot. "Study of Cometary Atmospheres at Visible Wavelengths and Comparison with Radio Observations". Supervisor: J. Crovisier (LESIA).
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### Employment history

Since Nov. 2000	<b>Astronomer</b> at Laboratoire d'Astrophysique de Marseille (France), Planetary Systems Group.
May 1996 – Oct. 2000	<b>Post-doctoral fellow</b> at the Max-Planck-Institute for Solar System Research (Germany).
Feb. 1996 – Apr. 1996	Short-term contact at Laboratoire d'Astronomie Spatiale (France).
Feb. 1991 – June 1992	Military service as " <b>Coopérant</b> " at the European Southern Observatory (Chile).

### Research Experience

Characterization of the individual and statistical properties of cometary nuclei and asteroids: size, shape, geomorphology, rotational parameters, surface thermal and photometric properties from remote sensing and in-situ ground- and space-based observations. Study of the properties of cometary dust: size and mass distributions, composition, dust-to-gas ratio from visible images of cometary dust tails. Recent work includes the development of a three-dimensional reconstruction technique to retrieve the surface topography of small bodies and of several software to analyze their surface properties. These techniques have been applied to the images acquired by the OSIRIS camera onboard ESA's Rosetta spacecraft.

- Author or co-author of **252 refereed articles** in scientific journals including *Science*, *Nature*, and journals specialized in astronomy and astrophysics. Total number of citations: 7984 (H-index: 44).
- Author or co-author of **185 oral or poster presentations** at international conferences and colloquia.
- Referee of the *Astronomy and Astrophysics* and *Icarus* journals.
- **Co-investigator of the OSIRIS and CIVA-P instruments onboard Rosetta; Co-investigator of the Corot space mission** and responsible for the "exoplanet pipeline"; **Participating Scientist** of the NASA led Dawn mission; **Co-investigator of the Simbio-Sys and BELA instruments onboard BepiColombo**.
- Member of the European Astronomical Society, European Geosciences Union and of the American Astronomical Society.
- Co-supervisor of **2 PhD students**: C. Capanna (2010-2013) and N. Christoff (2015-2018).

### Main Publications

- Jorda, L., Lamy, P.L., Faury, G., Keller, H.U., Küppers, M., Hviid, S., Koschny, D., Gutierrez, P. J., et Lara, L., Properties of the dust cloud caused by the Deep Impact experiment, *Icarus* **191**, 412-423, 2007.
- Jorda, L., Lamy, P., Gaskell, R., Kaasalainen, M., Groussin, O., et Besse, S., Asteroid (2867) Steins: Shape, Topography and Global Physical Properties from OSIRIS observations, *Icarus* **221** 1089-1100, 2012.
- Capanna, C., Gesquière, G., Jorda, L., Lamy, P., Vibert, D., Three-dimensional reconstruction using multiresolution photoclinometry by deformation, *Vis. Comput.* **29**, 825-835, 2013.
- Jorda, L., et **48 co-auteurs**, The global shape, density and rotation of Comet 67P/Churyumov-Gerasimenko from preperihelion Rosetta/OSIRIS observations, *Icarus* **277**, 257-278, 2016.
- Bibring, J.-P., Langevin, Y., Carter, J., Eng, P., Gondet, B., Jorda, L., Le Mouélic, S., Mottola, S., Pilorget, C., Poulet, F., et Vincendon, M., 67P/Churyumov-Gerasimenko surface properties as derived from CIVA panoramic images, *Science* **349**, article id. aab0671, 2015