

## **Robin Isnard**

**Address:** Résidence ARPEJ, 35 rue Michelet, 94460, Valenton, France

**Date of birth:** 11 February 1992 – **Nationality:** French – Driving license

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**Profile:** PhD student in astrochemistry, analytical chemist  
**Looking for a postdoc position in astrobiology**

### **EDUCATION**

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**2016-2019:** PhD in astrochemistry at LISA (Interuniversity Laboratory of Atmospheric Systems), Créteil (France)

**Subject:** Characterization of the organic matter in the comet 67P/Churyumov-Gerasimenko

**Marches 2017 and 2018:** Winter school [RED](#) (Astrobiology Introductory Course), Le Teich (France)

**2015-2016:** Master's Degree in Analytical Chemistry in Université Claude Bernard Lyon (France) (graduation with honours, valedictorian)

**2012-2016:** 3-years higher education in CPE Lyon (France), Engineering School of Chemistry, Physics and Electronics; MSc level

**Main subjects:** Organic chemistry, analytical chemistry and process engineering

**March-April 2015:** MOOC on Estimation of Measurement Uncertainty in Chemical Analysis, programme held by the Lifelong Learning Centre of the University of Tartu (Estonia)

**2010-2012:** "Classes Préparatoires": 2-years full time higher education in mathematics and science in preparation for entry to CPE Lyon

### **WORK EXPERIENCE**

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**March-August 2016:** Internship in research laboratory PIIM (Physics of Ionic and Molecular Interactions), Marseille (France)

**Subject:** Determination and quantification of volatile organic compounds coming from interstellar ice analogs by GC-MS

**July 2014-June 2015:** Temporary contract in Henkel, Dublin (Ireland)

Analytical chemist in industrial R&D environment, in charge of ICP-OES and Karl-Fischer analyses on adhesives

**July 2013:** Internship in CARSO, Lyon (France)

Technician in analytical laboratory, reception and preparation of aqueous samples

### **SKILLS**

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#### **Languages:**

- French: native language
- English: C1 level (Cambridge certified)
- German and Japanese: beginner

#### **Computing:**

- Pack Office
- Programming softwares: Matlab, LaTeX
- Editing softwares: Photoshop, Audacity, Premiere

## INTERESTS and ACTIVITIES

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### **Science outreach:**

- Member of the [French Astrobiology Society](#) and the “[Café des Sciences](#)” association (internet French popularisers)
- Personal French YouTube channel “[Tout Se Transforme](#)”, popularising chemistry for a broad audience
- Organiser of the EJC 2017 (conferences in astrobiology for early career researchers)

**Other:** piano and drums (playing and digital remixing), role-playing

## PUBLICATIONS

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Mrad, N.A., Duvernay, F., **Isnard, R.**, Chiavassa, T. and Danger, G., 2017. The Gaseous Phase as a Probe of the Astrophysical Solid Phase Chemistry. *The Astrophysical Journal*, 846(2), p.124.

Bardyn, A., Baklouti, D., Cottin, H., Fray, N., Briois, C., Paquette, J., Stenzel, O., Engrand, C., Fischer, H., Hornung, K. and **Isnard, R.**, ..., 2017. Carbon-rich dust in comet 67P/Churyumov-Gerasimenko measured by COSIMA/Rosetta. *Monthly Notices of the Royal Astronomical Society*, 469(Suppl\_2), pp.S712-S722.

Fray, N., Bardyn, A., Cottin, H., Baklouti, D., Briois, C., Engrand, C., Fischer, H., Hornung, K., **Isnard, R.**, ..., H., 2017. Nitrogen-to-carbon atomic ratio measured by COSIMA in the particles of comet 67P/Churyumov-Gerasimenko. *Monthly Notices of the Royal Astronomical Society*, 469(Suppl\_2), pp.S506-S516.

**Isnard, R.**, Bardyn, A., Fray, N., Briois, C., Cottin, H., Paquette, J., Stenzel, O., Alexander, C., Baklouti, D., Engrand, C. and Orthous-Daunay, F.R., 2019. H/C elemental ratios of the refractory organic matter in cometary particles of 67P/Churyumov-Gerasimenko. *Astronomy & Astrophysics (A&A): Special issues (in revision)*

Gardner, E., Lehto, H., Lehto, K., Fray, N., Lönnberg, T., Merouane, S., **Isnard, R.**, Bardyn, A., Cottin, H., Hilchenbach, M., 2019. The First Detection of Phosphorus in the Dust from the Coma of Comet 67P/Churyumov-Gerasimenko. *Nature Astronomy (in revision)*

## SCIENTIFIC COMMUNICATIONS

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**Isnard, R.**, Bardyn, A., Fray, N., Briois, C., Cottin, H., Paquette, J., Stenzel, O., Alexander, C., Baklouti, D., Engrand, C. and Orthous-Daunay, F.R., 2018, September. H/C elemental ratios of the refractory organic matter in cometary particles of 67P/Churyumov-Gerasimenko. In *European Planetary Science Congress* (Vol. 12).

**Isnard, R.**, Bardyn, A., Fray, N., Briois, C., Cottin, H., Paquette, J., Stenzel, O., Alexander, C., Baklouti, D., Engrand, C. and Orthous-Daunay, F.R., 2018, May. Characterization of the refractory organic matter in cometary particles of 67P/Churyumov-Gerasimenko. In *Advances in Space Mass Spectrometry for the Search of Extraterrestrial Signs of Life*.

**Isnard, R.**, Fray, N., Cottin, H., 2017, October. L'étude des comètes : une approche exobiologique. In *Exobiologie Jeunes Chercheurs*.