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Clément Thorey

Data scientist

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Mail

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Web & Git

github.com/cthorey
cthorey.github.io
scholar.google.fr/cthorey
kaggle.com/cthorey

Python library

pdsimage



Programming

Experience

- 10/12 - Now **Teaching assistant** [Université Paris Diderot - Paris, France.](#)
Mathematics - Linear algebra, ODP, EDP, Fourier series, Fourier transform
Physics - Mechanics, Experimental Physics (undergraduate level)
Informatics - C (graduate level), Python (undergraduate level).
- 10/12 - 11/15 **PhD candidate** [Insitut de Physique du Globe, Paris, France.](#)
Research interest: Intrusive magmatism on terrestrial planets.
Research Method : Numerical simulation / Data analysis.
- 02/11 - 07/11 **Research assistant** [Faculty of Science, University of Colima, Mexico.](#)
Research interest: Active volcano monitoring.
Research method: Seismic activity, thermal imaging, CO2 release and deformation mapping (GPS). Data preprocessing and analysis.
- 05/10 - 08/10 **Research assistant** [Benjamin Levich Institut, New York, USA.](#)
Research interest : Investigation of the periodic jamming and unjamming of dense suspensions in a particular geometry.
Research method : Experiments, Particle tracking (PIV).

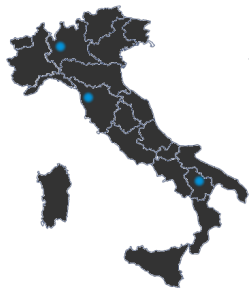
Education

- 2012 - 2015 **PhD in Geophysics (Planetary Sciences)** [Institut de Physique du Globe, Paris.](#)
Thesis title: Dynamics of shallow magmatic intrusions
Advisor: Chloé Michaut and Mark Wieczorek
Mention: Highest distinction.
- 2011 - 2012 **Master's Degree in Earth Science** [Institut de Physique du Globe, Paris, France.](#)
Main subjects: Volcanology, Seismology, Geophysical Fluid Dynamics.
Mention: Honors.
- 2009 - 2011 **Master's Degree in Theoretical Physics and Chemistry** [ENS Lyon, France.](#)
Courses cover the entire spectrum of physics and chemistry.
Mention: Honors.
- 2008 - 2009 **Bachelor's Degree in in Physics and Chemistry.** [ENS Lyon, France.](#)
Main subjects: Physics and chemistry such as quantum physics and statistical physics. Mathematics and computer science. *Highly selective degree.*
Mention: Accepted
- 2006-2008 **Bachelor's Degree MPSI.** [Université Lille 1, Lille, France.](#)
Main subjects : Mathematics, Physics and Computer Science
Mention: Honors.

Personal Skills Peer-Reviewed Articles



Places Lived



Languages

French ★★★★★
English ★★★★★★
Spanish ★★★★★★

- **Thorey, C.**, Michaut, C., 2015. Elastic-plated gravity current with temperature-dependent viscosity. *Journal of Fluid Mechanics (JFM)*
- **Thorey, C.**, Michaut, C., Wieczorek, M.A., 2015. Gravitational signatures of lunar floor-fractured craters (FFC). *Earth and Planetary Science Letters* 1–40. doi:10.1016/j.epsl.2015.04.021
- **Thorey, C.**, Michaut, C., 2014. A model for the dynamics of crater-centered intrusion: Application to lunar floor-fractured craters. *J. Geophys. Res. Planets* 119, 286–312. doi:10.1002/2013je004467
- Michaut, C., Baratoux, D., **Thorey, C.**, 2013. Magmatic intrusions and deglaciation at mid-latitude in the northern plains of Mars. *Icarus* 225, 602–613. doi:10.1016/j.icarus.2013.04.015

Communications in major scientific conference

- C. Michaut and **Thorey, C.**, Magmatism on the Moon, EGU 2016, Talk
- **Thorey, C.**, Floor-Fractured Craters through Machine Learning Methods, AGU Fall meeting 2015, Poster
- **Thorey, C.** and C. Michaut, A General Model for Shallow Magmatic Intrus, AGU Fall meeting 2015, Poster
- **Thorey, C.**, Detection of lunar floor-fractured craters using machine learning methods, EPSC 2015, Poster
- C. Michaut and **Thorey, C.**, Magmatic intrusions in the lunar crust, EPSC 2015, Talk
- **Thorey, C.** and C. Michaut, Effect of a temperature-dependent viscosity on the spreading of laccoliths, AGU Fall meeting 2014, Poster
- **Thorey, C.**, C. Michaut, M. Wieczorek, Gravitational signatures of lunar floor fractured craters, GRAIL science meeting, may 2014, Boulder, Colorado, USA, Talk
- **Thorey, C.**, C. Michaut, M. Wieczorek, Gravitational signatures of lunar floor fractured craters, LPI, Contribution No. 2225, 45th LPSC, held March 2014 in The Woodlands, TX, USA, Poster
- **Thorey, C.** and Michaut C., Thermal evolution of a magmatic intrusion, AGU Fall meeting 2013, Poster
- **Thorey, C.** and Michaut C., Floor-fractured craters on the Moon : an evidence of past intrusive magmatism, 44th Lunar and Planetary Science Conference, held March, 2013 in The Woodlands, Texas. LPI Contribution No. 1508, 2013, Talk.
- **Thorey, C.** and Michaut C., Floor-fractured craters on the Moon : an evidence of past intrusive magmatic activity, AGU Fall meeting 2012, Poster.
- **Thorey, C.**, November 2014, Gravitational signatures of lunar floor fractured craters, Workshop Structure and Dynamics of Earth-like Planets, Collège de France, Poster
- **Thorey, C.**, November 2014, Gravitational signatures of lunar floor fractured craters, Colloque PNP, Poster
- **Thorey, C.**, February 2014, Les cratères au sol fracturé: Témoins d'un magmatisme intrusif passé sur la Lune. UnivEarths, Talk
- **Thorey, C.**, March 2012, Formation of lunar floor-fractured craters, Univ. de Toulouse, Poster.

Other Info

For the Italian job market:

Si autorizza il trattamento delle informazioni contenute nel curriculum in conformità alle disposizioni previste dal d.lgs. 196/2003. Si dichiara altresì di essere consapevole che, in caso di dichiarazioni non veritiere, si è passibili di sanzioni penali ai sensi del DPR 445/00 oltre alla revoca dei benefici eventualmente percepiti.

January 14th, 2014

Carmine Benedetto