

Clément Hottier

PhD 2nd years

Observatoire de Paris
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Formation

- 2016-2019 **PhD Thesis**, *Observatoire de Paris ED 127*, GEPI, Supervised by C. Babusiaux.
Study of the Milky Way structure with GAIA survey
- 2015-2016 **Master 2 Gravitational Systems Dynamic**, *Observatoire de Paris*, Paris.
Graduated with honors
- 2014-2015 **Master 1 Universe's Science and Space Technologies**, *Observatoire de Paris*, Paris.
Graduated with honors
- 2011-2014 **Fundamental Physics licence**, *Université Lille 1*, Lille.
Graduated with honors
- 2010-2011 **PACES (Medicine school)**, *Université Lille 2*, Lille.
Not received at contest, Cellular Biology and Histology validated
- 2010 **Scientist baccalaureat with honors**.
Specialized in Physics and chemistry, Latin Option

Internships

- March-July **IAP**, *Paris*, Directed By Gary Mamon.
2016 Non spherical galaxy cluster modelisation :
Since observed position on the sky and line of sight velocity of tracers in the cluster, reconstruction of mass profile and velocity anisotropy profile, using likelihood maximisation (MCMC algorithm)
- April-July **LERMA**, *Observatoire de Paris*, Directed by Benoit Semelin.
2015 Implementing and testing of wavelet analysis to analyse 21cm forest
Processing quasi-analytically of intergalactic medium (Epoch of Reionization) spin's temperature considering the brightness of radio loud QASARs
- May-June **IMCCE**, *Observatoire de Lille*, Directed by Stéfan Renner.
2014 Co-orbitals satellites simulations
Writing in C a n co-orbitals satellites simulator
Data processing and production of animation with GNUPLOT

Computer Tools

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|-----------------------|--------|------------|
| Languages | C | Fortran 90 |
| | Python | Java |
| | Bash | LaTeX |
| Parallele Programming | OpenMP | MPI |

Languages

- French Native speaking
English European B2 level
Spanish European A2 level

Miscellaneous

- 2007 **First aid's diploma**.
2011 **French driver's licence**.