

BORIS BOLLIET

PhD student at Université Grenoble Alpes (August 2014 – July 2017)

Fulbright Visiting Student Researcher at Louisiana State University (August – December 2016)

École Normale Supérieure de Lyon (ENS Lyon)

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Université Grenoble Alpes (UGA)

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Research Interests

- *Large scale structure formation*
- *Theories of modified gravity and phenomenology of dark energy*
- *Inflationary models and quantum gravity*

Education

- 2014 -2017 PhD studies at LPSC Grenoble, advisor: Prof. Aurélien Barrau (barrau@lpsc.in2p3.fr).
- 2014 MSc. *Physique Subatomique et Astroparticules* (Grenoble University), Highest Honors.
MSc. *Open Course Programme* at ENS Lyon, Highest Honors.
- 2010 BSc. at ENS Lyon and Lycée Louis-Le-Grand (Paris), Highest Honors.

Languages: French (native), English (fluent), Spanish (advanced), learning Romanian and Hindi.

Grants and Awards

- 2016 ***Fulbright Grant*** (6k\$), for a 4 months research residency at Louisiana State Univ.
Selected Young Scientist at the **66th Lindau Nobel Laureate Meeting**.
EOLE Grant (500€) to fund a two weeks residency at Radboud University (NL).
- 2015 CPTGA Grant (500€) for attending the 14th Marcel Grossmann Meeting.
- 2014 PhD Grant from ENS Lyon (18k€/year over three years).
Diplôme de l'ENS Lyon (for my work on ***Science Policy*** at the French Embassy in India).
- 2009 ENS Lyon Studentship Grant (16k€/year over four years, 30 grants/year nationwide).
- 2007 Supporting grant from *Association Promotion des Talents* (8k€/year over two years).

Research Experience and Placements

- 2016 Louisiana State University, *Non-Gaussianity* with Pr. Ivan Agullo (4 months).
University of Manchester, *Dark Energy* with Pr. Richard Battye (1 week).
Radboud University in Nijmegen (NL), *Loop Quantum Cosmology* (1 week).
- 2015 Centre de Physique Théorique in Marseille with Pr. Carlo Rovelli (1 week).
Jagiellonian University in Kraków (PL), *Loop Quantum Cosmology* (1 week).
- 2014 University of Manchester on *Dark Energy* with Pr. Richard Battye (6 months).
- 2013 LPSC Grenoble on *Loop Quantum Cosmology* (6 months).
- 2012 French Embassy in India on *Foreign Science Policy* (6 months).
Utrecht University on *Quark Gluon Plasma* (2 months).
- 2010 Brookhaven National Laboratory on *Quark Gluon Plasma* (3 months).

Scientific Talks, Posters and Seminars

- 2016 *Cosmology Seminar*, Penn State University. *Talk*.
Astrophysics Seminar, Louisiana State University. *Talk*.
60th Birthday of Carlo Rovelli, Marseille. *Poster*.
Theoretical Cosmology in the Era of Large Surveys, Firenze. *Talk*.
Astrophysics Seminar, Radboud University, Nijmegen. *Talk*.
- 2015 *Relativity Seminar*, CPT, Marseille. *Talk*.
Theory Seminar, Jagiellonian University, Poland. *Talk*.
Marcel Grossmann 14, Roma, Italia. *Talk*.
LOOPS 15, FAU, Erlangen, Germany. *Talk*.
Cosmology Seminar, IAS Paris. *Talk*.
Quantum Gravity in Kraków n°4, Poland. *Talk*.
- 2013 *LOOPS 13*, Perimeter Institute, Canada. *Poster*.

Teaching Experience

- 2016 *Special Relativity*, Bachelor level (15 hours).
Nuclear Physics, Bachelor level (15 hours).
Supervisor of a master student's internship (3 months).
- 2015 *Numerical Computing*, Bachelor level (40 hours).
Nuclear Physics, Master level, Experimental (40 hours).
Data analysis, Master level (20 hours).
Supervisor of a bachelor student's internship (3 months).
- 2014 Teaching preparatory classes for *Concours Général de Physique*.

In 2014, I created weekly *Student Seminars*, which I continue to organize at LPSC Grenoble. I am also an elected representative for the PhD students on the University Board.

Workshops and Summer Schools Attended

- 2016 *Focus Week on Dark Energy and Modified Gravity*. GGI, Firenze.
- 2015 *Introduction to Mathematical General Relativity*, Institut Henri Poincaré, Paris.
- 2014 *CLASS Code Workshop*, Barcelona, Spain.
SIGRAV School: Gravity and the Quantum, Como, Italia.

Public Outreach

- 2015 Public Lecture at Annemasse City Hall (France) on Cosmology.
Presentations in high schools during the French National Science Week.
- 2014 Volunteered at the charity *Coups de Pouce Étudiants Grenoble* (helping students).

Other Interests and Achievements

Neurosciences, Indian classical music (playing *Tablas* since 2012), History, Literature.

- 2009 Authored a video report about post-1990 Central Asia (Kazakhstan, Kirghizstan, Tadjikistan, Uzbekistan), a two months project funded by local institutions (3k€).
- 2008 Authored a photo report about the rural world in the Middle East (Turkey, Syria, Jordan, Israël, Palestine), a two months project funded by local institutions (3k€).