

Maxime Lombart



06 January 1992



CRAL/ENS de Lyon, 46 allée d'Italie, 69007, Lyon, France



<https://mlombart.github.io/>



maxime.lombart@ens-lyon.fr

Skills

Physics: Coagulation-fragmentation process, Hydrodynamics, Discs dynamics (dust and gas), SPHERE observations

Computing: SPH, PHANTOM code, OpenMP, Galerkin methods, SPHERE images processing

Education

- 2017–2020 Ph.D in Astrophysics: "Grain growth by the Galerkin method for the formation of planets"
Supervisor: Dr. G. Laibe
Centre de Recherche Astrophysique de Lyon,
École Normale Supérieure de Lyon, Lyon (France)
- 2016–2017 Master 2 of Science in Astrophysics, Astronomy and Spatial Engineering obtained with honors
Paris Observatory, University Paris 7 Diderot, Paris (France)
- 2015–2016 Agrégation de physique-chimie, option physique (~ top 1% of French students)
École Normale Supérieure de Lyon, Lyon (France)
- 2014–2015 Master 1 of Science in Physics (theoretical physics)
École Normale Supérieure de Lyon, Lyon (France)
- 2013–2014 Bachelor of Science degree in Physics (theoretical physics)
École Normale Supérieure de Lyon, Lyon (France)
- 2010–2013 Classes préparatoires (Maths, Physics)
High school Louis Berthollet, Annecy (France)

Research Experience

- 2020–2021 Postdoctoral position in the ERC project "PODCAST" (Dr. G. Laibe)
Centre de Recherche Astrophysique de Lyon,
École Normale Supérieure de Lyon, Lyon (France)
- March-July 2017 M2 internship: "Exoplanets spectro-imaging around young stars with multi-belt dust"
Supervisor: Dr. G. Chauvin
Franco-Chilian laboratory for Astronomy, Departamento de Astronomía
University of Chile (Chile)
- May-July 2015 M1 internship: "Dust settling in protoplanetary discs"
Supervisor: Dr. G. Laibe
Laboratory of Astronomy and Astrophysics
University of Saint-Andrews (Scotland)
- June-July 2014 Bachelor internship: "Digital auto-servo control of the length of a Fabry-Perot cavity on an ultra-stable laser"
Supervisor: Dr. L. De Sarlo
SYRTE Laboratory, Paris Observatory (France)

Teaching

- 2018, 2019 Referee for Bachelor and Master internships in Astrophysics
École Normale Supérieure de Lyon, Lyon (France)
- 2017-2019 Teaching assistant in numerical methods
60hrs
École Normale Supérieure de Lyon, Lyon (France)
- 2017-2019 Teaching assistant in experimental and theoretical Physics
128hrs
École Normale Supérieure de Lyon, Lyon (France)

Publications

- Submitted "Grain growth for astrophysics with Discontinuous Galerkin schemes"
Lombart M. and Laibe G. *MNRAS*
"VLT/SPHERE survey for exoplanets around young early-type stars, including systems with multi-belt architectures"
Lombart M. et al., *A&A* 639, A54 (2020)
"On the settling of small grains in dusty discs: analysis and formulas"
Laibe G., Bréhier C. E., Lombart M., *MNRAS*, Volume 494, June 2020

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Grants

2018

Hubert Curien fellowship (2000 €) to visit Monash University. Col-
laboration with Pr. D. Price
Monash University, Melbourne (Australia)

Contributed talks and posters

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|---------------|--|
| February 2020 | Oral presentation at the "Phantom + MCFOST" workshop
Monash university, Melbourne (Australia) |
| July 2019 | Oral presentation at the "Disc-ussion" workshop
Monash university, Melbourne (Australia) |
| July 2019 | Poster at the "Great barrier in planet formation" conference
Palm Cove (Australia) |
| June 2019 | E-poster at European Week of Astronomy and Space Science
Lyon (France) |
| May 2019 | Poster at Société Française d'Astronomie et d'Astrophysique
Nice (France) |
| February 2019 | Oral presentation at "Dustbusters" workshop
Milan (Italie) |
| October 2018 | Oral presentation at "Protoplanetary discs and planet formation"
workshop
Monash university, Melbourne (Australia) |

Miscellaneous

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| Sports | Tennis at the competition level, hiking, skiing, squash, running |
| Music | Four years studying jazz drums in music conservatory |