

Geoffroy Lesur (orcid.org/0000-0002-8896-9435)

Date of birth : 28-Oct-1981, French

CNRS researcher (CRCN), Institut de Planétologie et d'Astrophysique de Grenoble (IPAG)

Web page : <http://geoffroy-lesur.org>



Education

- 2018 Habilitation à diriger les recherches (HDR) *Dynamics of protoplanetary discs*
- 2004 – 2007 PhD at Laboratoire d'Astrophysique de Grenoble (supervisor : P-Y. Longaretti) : *Instabilities and local sources of turbulence in accretion discs*
- 2001 – 2004 Education and master degree in theoretical physics (Ecole Normale Supérieure de Lyon, with honors)

Current and previous positions

- 2010 – CNRS Research staff (CRCN) at Institut de Planétologie et d'Astrophysique de Grenoble (IPAG).
- 2007 – 2010 Postdoctoral fellow - Department of Applied Mathematics and Theoretical Physics - Cambridge (UK) (supervisor : John Papaloizou & Gordon Ogilvie).

Fellowships & Awards

- 2019-2024 PI of the ERC consolidator project "**MHDiscs**" (grant agreement 815559)
- 2017 Invited key participant for KITP disc program (Santa Barbara, January-February 2017)
- 2017-2019 PI of the Tremplin-ERC ANR project "MHDiscs" ANR-17-ERC2-0007
- 2016 JILA-university of Boulder invited visiting fellow (June-July 2016)
- 2012 – 2015 Marie Curie reintegration grant PCIG09-GA-2011-294110.
- 2010 Lyman Spitzer fellowship (Princeton, USA). Declined due to an offer from CNRS.
- 2007 Daniel Guignier young researcher prize of the French Society for Physics (SFP)
- 2001 – 2006 ENS-Lyon fellowship

Teaching activities

- 2019 Invited lecturer at the 2019 summer school "**Waves, Instabilities and Turbulence in geophysical and astrophysical flows**"
- 2016 - **Circumstellar discs and exoplanets** (Master 2, Université Grenoble Alpes)
- 2015 & 2017 Invited lecturer at the 2015 & 2017 Plasma Astrophysics Winter School of the Ecole de Physique des Houches (Les Houches, France). Topics : accretion disc dynamics. Audience : ~60 people per year.
- 2014 - 2015 Numerical fluid dynamics for astrophysical flows (master level).

Supervision

2021 – 2024	PhD supervisor of Jonah Mauxion (IPAG) : early phases of protoplanetary disc evolution
2021 – 2024	PhD supervisor of Marc Van den Bossche (IPAG) : accretion in compact binaries
2021 – 2023	Postdoc supervisor of Clément Robert (IPAG) : dust transport in winds
2021 – 2023	Postdoc supervisor of Gaylor Wafflard (IPAG) : planet disc interaction
2020 – 2022	Supervisor of Soufiane Baghdadi (computation research engineer, IPAG) : developpement of a exascale-ready astrophysical code
2019 – 2022	PhD supervisor of Etienne Martel (IPAG) : modelisation of transition discs
2018 – 2021	PhD supervisor of Jonatan Jacquemin (IPAG) : magnetised outflows
2017 – 2020	Postdoc supervisor of Antoine Riols (IPAG) : dust dynamics in protoplanetary discs
2016 – 2019	PhD co-supervisor of Nicolas Scepi (IPAG) : dwarf novae.
2014 – 2017	PhD co-supervisor of William Bethune (IPAG) : protoplanetary discs.
2012 – 2014	Postdoc co-supervisor of Heloise Meheut (CEA Saclay), hired in 2016 by CNRS (Nice)
2011 – 2017	Supervisor of 4 master students.
2007 – 2010	Day to day supervisor of Hanno Rein (Cambridge)

Institutional responsibilities

2021 – 2027.	President of the astrophysics & geophysics computing committee of GENCI (French national computing agency).
2016 – 2020	Elected member of IPAG laboratory council
2013 – 2015	Member of the research commission of Grenoble Observatory.
2013 – 2016	President of the computing commission of Grenoble Observatory.
2011 – 2018	Webmaster of IPAG public website.

Organisation of scientific meetings

2019	SOC member of the workshop " Turbulence and structure formation in protoplanetary disc " (Ringberg Castle, July 2019)
2017	PI of the Les Houches winter school <i>From laboratories to astrophysics: the expanding Universe of plasma physics</i> . International audience (~60 participants, mostly PhD students and postdocs)
2016	IPAG workshop <i>Origin of asymmetries in protoplanetary discs</i> co-PI with Myriam Benisty (IPAG). National audience (~30 participants)
2013	Les Houches school <i>From black holes to cosmic rays : when plasmas go wild. A tribute to Guy Pelletier</i> co-Pi with Gilles Henri (IPAG). International audience (~40 participants)
2013 –	Periodic organisation (every ~ 9 months) of a workshop dedicated to fluid mechanics in Grenoble University. National audience (~ 30 participants at each workshop)

Commissions of trust

2021	External examiner for P. Leung PhD Thesis (Cambridge University, under the supervision of Henrik Latter)
2021	Referee for J. Guilet HDR Defense (CEA Saclay)
2020	Examiner for G. Wafflard PhD thesis (Univ. Toulouse, under the supervision of Clément Baruteau)
2020	Referee for U. Lebreuilly PhD thesis (ENS Lyon, under the supervision of Benoit Commerçon)
2020	External examiner for G. Inchingolo PhD thesis (Univ. Lisbon)
2019	External referee and panel member for a lecturer position (ENS Lyon)
2016	External referee and panel member for a lecturer position (ENS Lyon)
2015	External referee and panel member for a lecturer position (ENS Paris)
2013 – 2020	Member of the French national supercomputer panel (GENCI)
2014	Referee for J. Minière PhD thesis (Observatoire de Paris, under the supervision of Serge Bouquet and Claire Michaut)
2013	External examiner and referee for CJ Donnelly PhD thesis (Cambridge university, under the supervision of Gordon Ogilvie)
2013 – 2015	External examiner for 4 PhD thesis : V. Prat (Toulouse, France), N. Cabral (Bern, Switzerland), J. Faure (Paris, France), S. Richard (Marseille, France)
2007 –	Referee for A&A, ApJ, MNRAS, Phys. of plasmas, Phys. of fluids, J. of fluid mech. (~5 papers per year)

Major collaborations

2017 –	<i>gas-dust interaction</i> Antoine Riols (IPAG), 5 refereed joint articles
2015 –	<i>disc-enveloppe interaction</i> Patrick Hennebelle (CEA Saclay), 3 refereed joint articles.
2016 –	<i>dwarf novae</i> , Guillaume Dubus (IPAG), 4 refereed joint articles.
2016 –	<i>strongly magnetised discs</i> , Mitch Begelman, Upasana Das (Boulder, USA), 2 refereed joint article.
2013 –	<i>MHD turbulence cascade</i> , Stanislas Boldyrev, Justin Walker (Madison, USA) 3 refereed joint article
2012 –	<i>Hall-dominated MRI</i> , Matthew Kunz (Princeton, USA), 2 refereed joint articles.
2011 –	<i>MHD winds and jets</i> , Jonathan Ferreira (IPAG, Grenoble), 3 refereed joint articles
2007 –	<i>Pm effect and winds</i> , Sébastien Fromang (CEA Saclay, France), 4 refereed joint articles.