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Directeur de recherche @ [IRAP/OMP](#), [CNRS](#) / [Université de Toulouse](#)

Brief CV

- **1984-1987**: graduate studies at [école Polytechnique](#) (France)
- **1988-1990**: PhD in stellar astrophysics at [Observatoire de Paris](#) / [Université Paris Diderot](#) (France)
- **1991-1992**: postdoctoral fellowship at [University of Western Ontario](#) (Canada)
- **1992-2003**: charge de recherche at [CNRS \(Observatoire de Paris\)](#), then [Observatoire Midi-Pyrénées](#)
- **2003-** : directeur de recherche at [CNRS](#) / [Université de Toulouse](#) - [IRAP](#) / [OMP](#)

Main scientific & instrumental achievements

- first direct detections (through spectropolarimetry) of large-scale magnetic fields in low-mass stars other than the Sun and in new types of objects (eg O stars, inner regions of accretion discs)
- first magnetic maps of stars other than the Sun, e.g. massive stars, low-mass M dwarfs & PMS stars
- first direct detection of surface differential rotation in stars other than the Sun
- first detection of a young hot Jupiter around a T Tauri star
- **first mass measurement of the Neptune-type giant planet orbiting the young star AU Mic**
- **1994-1997**: design & construction of the MuSiCoS polarimeter for the 2m [TBL](#) (Pic du Midi)
- **1999-2004**: design & construction of the ESPaDOnS spectropolarimeter for the 3.6m [CFHT](#) (Hawaii)
- **2005-2006**: expertise & follow-up for the Narval spectropolarimeter for the 2m [TBL](#)
- **2008-2019**: PI of [SPIRou](#), a nIR cryogenic velocimeter & spectropolarimeter for the 3.6m [CFHT](#)
- **2018-** : PI of SPIP, SPIRou twin for the 2m [TBL](#)

Scientific production & citations

- ~250 [refereed publications](#) (from ADS), with ~90 as 1st or 2nd author
- ~15,000 ADS citations, **H-index of ~70 publications, of which ~40% as 1st & ~25% as 2nd author**

Most significant first- or second-author publications

- Klein, Donati et al 2020, MNRAS, submitted
- Donati et al 2020, MNRAS [in press](#)
- Donati et al 2020, MNRAS 491, 5660
- Donati et al 2016, Nature 534, 662
- Donati & Landstreet 2009, ARA&A 47, 333 (cited 450+)
- Morin, Donati et al 2008, MNRAS 390, 567
- Donati et al 2006b, Science 311, 633
- Donati et al 2006a, MNRAS 370, 629 (cited 340+)
- Donati et al 2005, Nature 438, 466
- Donati et al 2002, MNRAS 333, 55
- Donati & Collier Cameron 1997, MNRAS 291, 1 (cited 320+)
- Donati et al 1997, MNRAS 291, 658 (cited 1260+)

PhD students & postdocs, PI-ship, teaching & duties

- 12 PhD students (6 graduating in 2003, 2009, 2011, 2015, 2019 and 2019, 6 ongoing), 8 postdocs (2 ongoing)
- co-supervision of 7 foreign students (from UK, Canada & Australia)
- PI of ESPaDOnS, [SPIRou](#) & SPIP, PI of ANR project (MaPP)
- PI of **ERC-Adv [NewWorlds](#) project funded in 2017**
- PI of 3 Large Programs @ CFHT (MaPP, [MaTYSSE](#), [SPIRou Legacy Survey/SLS](#))
- astrophysical courses at Master level (2004-2008) & summer schools (Aussois, Les Houches)
- panel member for CNRS thematic programs (eg PNST, PNPS), referee for main journals (eg MNRAS, ApJ)
- external expertise for the ERC frontier research grant programme (ERC-StG 2014, ERC-CoG 2015)

Scientific outreach

- **2009**: design & construction of an outreach exhibition «[Magnetic Nature : from Atoms to Stars](#)» shown at Cité des Sciences (Paris) & Cité de l'Espace (Toulouse) for the Annual Year of Astronomy
- **2010, 2014, 2019**: [Pic du Midi](#) & SPIRou episodes [#1](#) and [#2](#) in the [SPIROU magazine](#) (in French)
- **2021**: new exhibition 'Habitable Worlds' on SPIRou science in partnership w/ Cité de l'Espace (Toulouse)

Awards

- **2000**: award of the French Astronomy & Astrophysics society (SF2A)
- **2008**: Deslandres Award of the French Académie des Sciences
- **2017**: ERC Advanced Grant awarded to [NewWorlds](#) project