

## *Curriculum vitae*

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### ◆ Personal details

- Born 11.12.1978
- French citizen

### ◆ Current Position

- CNRS research staff in astrophysics, Institut de Recherche en Astrophysique et Planétologie (IRAP), Toulouse (France).

### ◆ Research interests

- Theoretical and computational astrophysics, astrophysical turbulence and magnetic fields, solar, stellar and accretion disk physics, high energy astrophysical plasmas.

### ◆ Education and academic timeline

- *2020* **Habilitation thesis**, Toulouse III University.
- *2007-present* **Permanent research position at CNRS**, IRAP, Toulouse (France).
- *2005-07* **Postdoctoral research associate** in DAMTP, University of Cambridge, UK (funded by the Leverhulme and Newton trusts).
- *2004* **PhD** in astrophysics and solar physics, Toulouse III University, defended on December 10<sup>th</sup> 2004. Supervisor: Prof M. Rieutord.
- *2001* **DEA** (Master) in Astrophysics and Planetology, Paul Sabatier University of Toulouse, France (ranked 1st).
- *1998-00* **Undergraduate studies** with major in physics, École Normale Supérieure de Lyon, France.
- *1996-98* Classes préparatoires aux grandes écoles with major in physics and chemistry (PC\*), Lycée Montaigne, Bordeaux, France.

## ◆ Publications

- See attached list.
- Peer-reviewing: *Astronomy & Astrophysics*, *Astrophysical Journal*, *Monthly Notices of the RAS*, *Solar Physics*, *New Journal of Physics*, *Physics of Fluids*, *Physical Review Letters*, *Physical Review E*, *Journal of Fluid Mechanics*, *J. Fluid Mech.*, *J. Plasma Phys.*

## ◆ Invited positions

- Newton Institute program on astrophysical gyrokinetics, Cambridge, UK (2010).
- Institut Henri Poincaré program on dynamos, Paris, France (March 2009).
- KITP program on dynamo theory, UCSB, USA (June-July 2008).
- Academic visitor at Imperial College, London, UK (2007-2010).
- Academic visitor at NORDITA, Copenhagen, Denmark (November 2002).

## ◆ International Conferences, schools and workshops (\* denote invited talks)

- WPI workshop on astrophysical plasmas (Vienna, Austria, 2014-2019).
- NBIA working group on plasma turbulence (Copenhagen, Denmark, 2018).
- GDR dynamo (IHP Paris, France, 2017) \*.
- Les Houches winter school "the future of plasma astrophysics" (France, 2017) \*.
- SF2A session on simulations in astrophysics (Lyon, France, 2016) \*.
- PCTS workshop on dynamo theory (Princeton, USA, 2015) \*.
- "Turbulence in collisionless astrophysical plasmas" conference (Cargese, France, 2015).
- Steve Balbus 60th b'day: From the MRI to the Sun (Chamonix, France, 2014) \*.
- Euromech Coll. on subcritical transition to turbulence (Cargese, France, 2014) \*.
- Congres la division plasma de la SFP (Toulouse, France, 2014). \*.
- 14th European Turbulence Conference (Lyon, France, September 2013).
- 5th International Symposium on Bifurcations and instabilities in fluid dynamics (Haifa, Israel, July 2013) \*.
- Workshop on Stability, Energetics, and Turbulent Transport in Astrophysical, Fusion, and Solar Plasmas (Princeton, USA 2013) \*.
- Les Houches winter school "the future of plasma astrophysics" (France, 2013) \*.
- SWIFF summer school on space weather modelling (Spineto, Italy, 2012).
- Les Houches winter school "Dynamics and turbulent transport in plasmas and conducting fluids" (France, 2011) \*.

- Michael Proctor's birthday conference: "convection, magnetoconvection and dynamo theory" (Cargese, France, 2010).
- WPI workshop on astrophysical plasmas (Vienna, Austria, February 2009).
- Euromech Yaglom-Kraichnan Colloquium (Turin, Italy, 2009) \*.
- International winter school on astrophysical and fusion plasmas (UCLA, USA, January 2009).
- International Newton Institute conference on "Structures and waves in anisotropic Turbulence" (Warwick, UK, November 2008).
- International conference on dynamo theory (KITB, Santa Barbara, July 2008).
- International winter school on plasma instabilities (UCLA, USA, January 2008).
- International workshop on MHD Laboratory Experiments for Geophysics and Astrophysics (Catania, Italy, October 2007).
- International winter school on plasma turbulence and transport (UCLA, USA, January 2007).

#### ◆ Teaching and supervision

- Supervision of A. Riols' PhD Thesis (2011-2014).
- Supervision of S. Rawat's PhD Thesis (2011-2015).
- Supervision of Master students research internships.
- Teaching assistant, University of Toulouse (2002-2004).

#### ◆ Other

- Head organizer of Les Houches winter school "the future of plasma astrophysics" (France, 2013).
- IRAP seminar organizer (2009-2013).