

Sabrina SANCHEZ

Curriculum Vitae

Justus-von-Liebig-Weg 3
37077 Göttingen, Germany
☎ +49 551 384 979-540
✉ sanchezs@mps.mpg.de

Personal Information

Birth date 27/02/1986
Birth place Buenos Aires, Argentina

Education & employment

- Sep 2016 – **Postdoc**, Max-Planck Institute for Solar System Research (MPS), department of Planets and Comets, Göttingen, Germany, with Dr. Johannes Wicht.
- 2013–2016 **PhD**, Institut de Physique du Globe (IPGP), Paris, France, with Dr. Alexandre Fournier and Dr. Julien Aubert at the Geomagnetism laboratory (mention "Très honorable").
- 2010–2012 **MSc**, Observatório Nacional (ON), Rio de Janeiro, RJ, Brazil, with Dr. Katia Pinheiro, Dr. Alexandre Fournier and Dr. Julien Aubert.
- 2004–2009 **Bachelor in Physics**, Universidade Federal Fluminense (UFF), Niterói, RJ, Brazil.

Publications

- Submitted **Baerenzung J, Holschneider M, Wicht J, Sanchez S, Lesur V**, "Modeling and predicting the short term evolution of the Geomagnetic field", Submitted to the Journal of Geophysical Research.
- 2016 **Sanchez S, Fournier A, Aubert J, Cosme E and Gallet Y**, "Modelling the archaeomagnetic field under spatial constraints from dynamo simulations: a resolution analysis", *Geophysical Journal International*, 207(2), 983-1002.
- 2014 **Sanchez S, Fournier A, and Aubert J**, "The predictability of advection-dominated flux-transport solar dynamo models", *The Astrophysical Journal*, 781(1), 8.
- 2014 **Sanchez S, Fournier A, Pinheiro K, and Aubert J**, "A mean-field Babcock-Leighton solar dynamo model with long-term variability", *Anais da Academia Brasileira de Ciências*, 86(1), 11-26.

Invited Talks

- 2017 **Assimilation of geomagnetic data, a window to a better understanding of core dynamics**, 2017 IAPSO-IAMAS-IAGA Joint Assembly, Cape Town, South Africa.
- 2015 **Assimilation of archaeomagnetic observations into geodynamo models**, Institut de Physique du Globe de Paris (IPGP), Paris, France.
- 2014 **The Solar Dynamo: observations, theory and predictions**, Laboratoire de Planétologie et Géodynamique (LPG), Nantes, France.

Awards

- 2012 Max Hammond Student Award for young researchers given by the Space Physics and Aeronomy (SPA) group from the AGU (2012)

Conference contributions

- 2017 **IAPSO-IAMAS-IAGA**, *Joint Assembly, Cape Town, South Africa*, "Insights into millennial-scale core dynamics through archeomagnetic data assimilation" (talk).
- 2016 **SEDI**, *15th symposium of Studies of the Earth's Deep Interior, Nantes, France*, "Sequential assimilation of geomagnetic data into dynamo models, an archeomagnetic study" (poster).
- 2015 **IUGG**, *26th International Union of Geodesy and Geophysics General Assembly, Prague, Czech Republic*, "Models of the archaeomagnetic field using prior information from dynamo simulations" (talk).
- 2013 **IAGA**, *XXI International Association of Geomagnetism and Aeronomy (IAGA) meeting, Mérida, Yucatan, Mexico*, "On the predictability limit of a mean-field flux transport solar dynamo model and its implications for solar activity forecasting" (talk).
- 2012 **AGU**, *American Geophysical Union (AGU) Fall Meeting, San Francisco, USA*, "On the predictability limit of a mean-field flux transport solar dynamo model and its implications for solar activity forecasting" (talk).

Training

- 2013 **Fortran95**, *Institut du Développement et des Ressources en Informatique Scientifique (IDRIS - CNRS), Orsay, France*.
- 2013 **MPI and OpenMP**, *Institut du Développement et des Ressources en Informatique Scientifique (IDRIS - CNRS), Orsay, France*.
- 2011 Planification, installation and working of magnetic observatories at the Niemeck magnetic observatory, *GFZ, Niemeck, Germany*

Teaching & organizational work

- 2017 Part of the organizing committee of the HP4 colloquium in Göttingen
- 2017 Postdoc representative at the Max-Planck Institute for Solar System Research (MPS)
- 2015 Monitor at the Master Geo³ (Géorressources, Géorisques, Géotechnique), at the IPGP, on the course 'Magnetic and gravimetric imaging', 14h of practicals.
- 2011 Organizer of the master and PhD students seminar group at the Geophysics department at the Observatório Nacional (ON).

Scientific Vulgarization

- 2014 Organization and participation at the Fête de la Science (Science Festival) at IPGP on the atelier "The magnetic field of the Earth" with the Geomagnetism and Paleomagnetism IPGP groups.
- 2012 Organization and participation at the ONU Rio+20 conference at Rio de Janeiro in the section "Science, technology and innovation for a sustainable development" on the exposition "The Earth's magnetic field" with the Geomagnetism group from the ON.
- 2012 Organization and participation at the online course on "The Earth's magnetic field", lead by Dr. Katia Pinheiro, with the Geomagnetism group of the ON.

Languages

- Portuguese **Native Speaker**
- Spanish **Native Speaker**
- English **Fluent**
- French **Intermediate**