

Personal Information

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Research Positions

- **Postdoctoral Researcher** since Aug 2013
 at Institute of Physics/IGAM, University of Graz, Austria
- **Postdoctoral Researcher** Feb 2010 – Aug 2013
 at Max Planck Institute for Solar System Research, Germany
- **PhD Fellow** Feb 2007 – Feb 2010
 at Max Planck Institute for Solar System Research, Germany

Theses

- **Ph.D. Physics, Technical University Braunschweig, Germany** 11 Feb 2010
 Thesis: *Evolution of coronal magnetic fields*
- **Diploma in Physics, Institute of Physics/IGAM, University of Graz, Austria** 28 Feb 2006
 Thesis: *Analysis of the flare-associated waves on January 17, 2005*

Achievements

- **Publication Record**
 32 papers published in international peer-reviewed journals (11 as first author)
 Total number of citations: 1 285; H-index: 15 (NASA/ADS, Feb 2019)
 8 articles published in conference proceedings
 2 Science Nuggets
 64 contributions to conferences and workshops
 14 invited reviews/talks
- **Scientific Projects as Principal Investigator:**
 - *Magnetic helicity modeling in solar flares* (FWF P31413-N27) Start: Apr 2019
 - *Magnetic field modeling of the solar atmosphere* (FWF P25838-N27) Aug 2013 – Aug 2016
- **Scientific Projects as Co-Investigator:**
 - *Initiation of solar flares: reconnection, heating and particle acceleration* (FWF P27292-N20)
 - *Coronal magnetic field modeling* (DFG WI 3211/1-1, WI 3211/2-1)
- **Awards**
 - 2017 EGU Arne Richter Award for Outstanding Young Scientists
 - 2017 ERC Starting Grant Interview
 - 2016 ESWW Alexander Chizhevsky Medal for Space Weather and Space Climate
- **ISSI Team Membership (by invitation only)**
 - ISSI International Team on Magnetic Helicity in Astrophysical Plasmas
[\(http://www.issibern.ch/teams/helicityastroplas/\)](http://www.issibern.ch/teams/helicityastroplas/)
 - ISSI International Team on Magnetic Helicity Estimations in Models and Observations of the Solar Magnetic Field
[\(http://www.issibern.ch/teams/magnetic-helicity/\)](http://www.issibern.ch/teams/magnetic-helicity/)
 - ISSI International Team on Nonlinear Force-Free Modeling of the Solar Corona:
 Towards a New Generation of Methods
[\(http://www.issibern.ch/teams/solarcorona/\)](http://www.issibern.ch/teams/solarcorona/)

Teaching (at Institute of Physics/IGAM, University of Graz, Austria)

- **Co-Supervisor** since Mar 2015
of student apprentices (1), master students (3) and PhD students (2)
- **Tutor** since Mar 2014
for the lecture *Introduction to Solar Physics* and *Research Ethics*

Community Services

- **Referee for international journals**
– *Solar Phys.*, *Astron. & Astrophys.*, *The Astrophys. Journal*, *The Astrophys. Journal Lett.*
- **Referee for funding agencies**
– *National Science Foundation*, *Alexander von Humboldt-Foundation*
- **Observing scientist**
– Variability of the Sun and Its Terrestrial Impact (VarSITI) International Study of Earth-affecting Solar Transients (ISEST)/MiniMax24 project
- **Committee membership**
– European Space Weather Week (ESWW) International Space Weather Medals Committee
– European Geosciences Union (EGU) Hannes Alfvén Medal Committee
- **Organization of Scientific Meetings**
– *15th RHESSI Workshop* (26–30 Jul 2016, Graz, Austria)
– *Rocks'n'Stars Conference* (8–11 Oct 2012, Göttingen, Germany)

Major Collaborations

- **ISSI International Team on Magnetic Helicity in Astrophysical Plasmas**
This international team aims to bring helicity estimation methods that were developed in different research fields under the same theoretical framework, so that they can be meaningfully compared with each other, and quantitatively benchmarked.
Team leaders: Valori, G. (MSSL, UK), Pariat, E. (LESIA, France)
- **ISSI International Team on Magnetic Helicity estimations in models and observations of the solar magnetic field**
This international team aims to compare different methods of helicity computations using model and observational test cases, and to provide the solar community with thorough and accurate reference works on helicity estimations.
Team leaders: Valori, G. (MSSL, UK), Pariat, E. (LESIA, France)
- **ISSI International Team on Nonlinear Force-Free Modeling of the Solar corona: Towards a New Generation of Methods**
This international team seeks to develop, test, and assess nonlinear force-free modeling techniques, combined with new instrumentation and data in order to understand the energetics and evolution of the solar corona.
Team leaders: DeRosa, M. (LMSAL, USA), Wheatland, M. (Univ. of Sydney, Australia)
- **NLFFF Consortium**
This international group of scientists evaluates methods for the nonlinear force-free computation of coronal magnetic fields.
Chairs: Schrijver, C. (LMSAL, USA), DeRosa, M. (LMSAL, USA)