

Mag. Dr. Tanja Amerstorfer

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Personal Data

Day of birth September 6, 1981

Place of birth Graz

Nationality Austria

Children Jana (*Oktober 13, 2005), Annika (*Oktober 7, 2008), Finja (*March 25, 2017)

Education

03/2011–11/2014 **Doctoral program (physics)**, *with distinction*, University of Graz.

WS 2001 and 2003–2011 **Diploma program (physics)**,
focus geophysics, University of Graz.

1995–2000 **Educational establishment for kindergartenpedagogy**, Graz.

Professional Experience

07/2018–current **PI**, FWF-project [P31265-N27] “Predicting solar storm arrivals at Earth”, Space Research Institute, Austrian Academy of Sciences.

12/2017–03/2018 **PostDoc**, FWF-project [P24247-N27] “Modeling of non-thermal processes in upper atmospheres exposed to the young Sun”, PI H. Lichtenegger, Space Research Institute, Austrian Academy of Sciences.

12/2014–11/2017 **PostDoc**, FWF-project [P26174-N27] “The evolution of solar storms in the inner heliosphere”, PI C. Möstl, Space Research Institute, Austrian Academy of Sciences.

08/2013–07/2015 **Young Researcher Fellow of the University Graz council board**, “The Role of the Magnetic Field within Solar Storms”, Space Research Institute, Austrian Academy of Sciences.

03/2011–11/2014 **Dissertation**, “Evolution of Interplanetary Coronal Mass Ejections and their Heliospheric Imprints”, within FP7 project 263252 (*Coronal Mass Ejections and Solar Energetic Particles*), supervisor: Assoz. Univ.-Prof. Mag. Dr. Astrid Veronig.

10/2009–12/2010 **Diploma thesis**, “Propagation Directions and Kinematics of Coronal Mass Ejections in the Heliosphere”, within FWF project P20145 (*Magnetic clouds and their solar sources*), supervisor: Assoz. Univ.-Prof. Mag. Dr. Astrid Veronig.

Research Interests

Coronal mass ejections, *interplanetary propagation*.

Magnetic clouds, *interior structure and evolution*.

Space weather, *forecasting and analysis of possible geoeffective events*.

Academic Achievements

Publications and Presentations

- Publications **21 peer reviewed scientific articles in international journals**, 5 as first author.
- Poster presentations **54 poster presentations**, 19 as first author.
- Oral presentations **45 oral presentations**, 11 as first author.
- Number of citations **774**, (total).
- h-index: **14**, (source: SAO/NASA Astrophysics Data System, Aug 2018).

Invited Talks

- EGU General Assembly 2017 **in Session ST4.2**, “CME prediction: present and future perspectives”, Vienna, Austria.

Awards

- 2013–2015 **Young Researcher Fellowship**, of the University Graz council board.

Community Service

- Referee for international journals **Solar Physics; Astrophysical Journal; Journal of Atmospheric and Solar-Terrestrial Physics, Journal of Space Weather and Space Climate.**
- Reviewer for funding agencies **NASA Heliophysics Supporting Research program.**
- Observing Scientist **for VarSITI**, *Variability of the Sun and Its Terrestrial Impact*, ISEST/MiniMax24 campaign.
- Student judge **at AGU 2015 and EGU 2016.**

Memberships

- EGU **member**, since 2015.
- VarSITI **team member.**

Student Supervision

- supervision **PhD Student**, J. Hinterreiter, Space Research Institute Graz.
- co-supervision **two master’s students**, Space Research Institute Graz.

Research Grants and Projects as PI

- Stand-alone project, Austrian Science Fund **project duration: 3 years**, “Predicting solar storm arrivals at Earth”.
Funding budget: €385k
- Grant of the University Graz council board **project duration: 2 years**, “The Role of the Magnetic Field within Solar Storms”.
Funding budget: €24k

International Research Collaborators in the last five years

- China **W. Mishra**, CAS Key Laboratory of Geospace Environment, Department of Geophysics and Planetary Sciences, University of Science and Technology of China, Hefei.
- Croatia **B. Vršnak**, Hvar Observatory, Faculty of Geodesy, University of Zagreb.
- Finland **E. Kilpua, A. Isavnin**, Univ. of Helsinki, Helsinki.
- France **M. Janvier**, Institut d’Astrophysique Spatiale, Univ. Paris-Sud-CNRS, Université Paris-Saclay, Orsay Cedex.

India **P. Vemareddy**, Indian Institute of Astrophysics, Koramangala.

United Kingdom **R.A. Harrison, J.A. Davies**, RAL Space, Rutherford Appleton Laboratory, Harwell Oxford.

S. Good, Blackett Laboratory, Imperial College London, London.

USA **C.J. Farrugia, N. Lugaz**, Space Science Center and Department of Physics, Univ. of New Hampshire, New Hampshire.

R.A. Frahm, Southwest Research Institute, Texas.

M.L. Mays, Heliophysics Science Division, NASA Goddard Space Flight Center, MD.

P. Hess, Department of Physics and Astronomy, George Mason Univ., VA.