Curriculum vitae

Personal Information

FIRST NAME / SURNAME	Anna Shapiro
EMAIL	shapiro@mps.mpg.de
NATIONALITY	Russian
BIRTH	28.03.1981
FAMILY	Leningrad, USSR (currently Saint-Petersburg, Russia) married, one child (2013)

Education and Training

09.2018 - NOW	Post-Doc, Department Solar and Stellar Interiors, Max Planck Institute for Solar System Research (MPS), Germany
03.2017 - 02.2018	Post-Doc, ERC Starting Grant and Max Planck Independent Research Group "Stellar Ages and Galactic Evolution (SAGE)", MPS, Germany
07.2014 - 02.2017	break due to family reasons
10.2012 - 06.2014	Post-Doc, Physical Meteorological Observatory Davos/ World Radiation Centre (PMOD/WRC), in total 10 months of 100% employment, including: 05/2013-01/2014 Maternity leave, 01/2014-07/2014 Part time (50%) employment
11.2008 - 09.2012	PhD-student, PMOD/WRC and Swiss Federal Institute of Technology (ETH) in Zürich, scientific advisers – Prof. Dr. Thomas Peter and Dr. Eugene Rozanov, project title is "Study of the middle atmosphere response to the short-term variability of solar activity"
10.2004 - 10.2005	Research assistant at the Astronomy Department, St.-Petersburg State University, Russia, project title is "Light curves analysis of the blazer AO 0235+16 "
09.1999 - 06.2004	Student, Astronomy Department, St.-Petersburg State University, Russia, scientific adviser – Prof. Dr. V. A. Hagen- Thorn

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Awards

09.2013 Doctorate (PhD) in Science, awarded by ETH, Zürich.

06.2004 Diploma in Mathematics and Astronomy by Saint-Petersburg State University, Russia

04.2017 "Seal of Excellence" for the project proposal "Understanding stratospheric ozone evolution caused by solar irradiance variability (SOVA)" submitted under the Horizon 2020's Marie Skłodowska-Curie actions call H2020-MSCA-IF-2016 of 14 September 2016

Experience in acquiring external funding

2013 "Study of factors influencing ozone layer evolution (SILA)", Swiss National Science Foundation, CHF 161'643.50 (together with PMOD/WRC Director Prof. Dr. Werner Schmutz and Dr. Eugene Rozanov).

Skils

COMPUTATION Fortran, NCL, IDL, Python, Matlab, R, C/C++

LANGUAGES English - fluent

Russian - mother tongue

German - B1/B2

Referred publications

1. **2020** **A. V. Shapiro,** A. I. Shapiro, L. Gizon, N. A. Krivova, and S. K. Solanki, "Solar-cycle irradiance variations over the last four billion years", *Astronomy and Astrophysics*, Volume 636, A83 (4 citations, hereafter citations are given according to Google Scholar as of 8 October 2020)

2. **2016** W. T. Ball, J. D. Haigh, E. V. Rozanov, A. Kuchar, T. Sukhodolov, F. Tummon, **A. V. Shapiro**, and W. Schmutz, 2016, "High solar cycle spectral variations inconsistent with stratospheric ozone observations", *Nature Geoscience,* Volume 9, Issue 3, pp. 206-209 (42 citations)

3. **2013** **A. V. Shapiro**, E. Rozanov, A. I. Shapiro, T. Egorova, J. Harder, M. Weber, A. K. Smith, W. Schmutz, and Th. Peter, "The role of the solar irradiance variability in the evolution of the middle atmosphere during 2004-2009", *Journal of Geophysical Research: Atmospheres*, Volume 118, Issue 9, pp. 3781-3793 (21 citations).

4. **2013** **A. V. Shapiro,** A. I. Shapiro, M. Dominique, I. E. Dammasch, C. Wehrli, E. Rozanov, W. Schmutz, "Detection of Solar Rotational Variability in the Large Yield RAdiometer (LYRA) 190 - 222 nm Spectral Band", *Solar Physics*, Volume 286, Issue 1, pp.289-301 (6 citations).

5. **2013** A. I. Shapiro, W. Schmutz, M. Dominique, **A. V. Shapiro**, "Eclipses observed by LYRA - a sensitive tool to test the models for the solar irradiance", *Solar Physics*, Volume 286, Issue 1, pp.271-287 (11 citations).

6. **2012** **A. V. Shapiro**, E. Rozanov, A. I. Shapiro, S. Wang, T. Egorova, W. Schmutz, and Th. Peter, "Signature of the 27-day solar rotation cycle in mesospheric OH and H2O observed by the Aura Microwave Limb Sounder", *Atmospheric Chemistry and Physics*,Volume 12, Issue 7, pp.3181-3188 (37 citations, including 3 citations to the ACPD version).

7. **2011** A. I. Shapiro, W. Schmutz, E. Rozanov, M. Schoell, M. Haberreiter, **A. V. Shapiro,** S. Nyeki, "A new approach to the long-term reconstruction of the solar irradiance leads to large historical solar forcing", *Astronomy and Astrophysics*, 529A, 67S (280 citations)

8. **2011** **A. V. Shapiro,** E. Rozanov, T. Egorova, A. I. Shapiro, Th. Peter, W. Schmutz, "Sensitivity of the Earth's middle atmosphere to short-term solar variability and its dependence on the choice of solar irradiance data set", *Journal of Atmospheric and Solar- Terrestrial Physics*, Volume 73, Issue 2-3, p. 348-355. (24 citations).

9. **2011** T. Egorova, E. Rozanov, Y. Ozolin, **A. V. Shapiro,** M. Calisto, Th. Peter, W. Schmutz, "The atmospheric effects of October 2003 solar proton event simulated with the chemistry-climate model SOCOL using complete and parameterized ion chemistry", *Journal of Atmospheric and Solar-Terrestrial Physics*, Volume 73, Issue 2-3, p. 356-365 (22 citations).

10. **2007** V. A. Hagen-Thorn, V. M. Larionov, C. M. Raiteri, E. I. Hagen-Thorn, **A. V. Shapiro,** A. A. Arkharov, L.O. Takalo, A. Sillanpää, "Color variability of the blazar AO 0235+16", *Astronomy Reports*, 51, Issue 11, .882-89 (6 citations).

11. **2005** C. M. Raiteri, et al.(co-author **A.Vasileva**), "The WEBT campaign to observe AO 0235+16 in the 2003-2004 observing season. Results from radio-to-optical monitoring and XMM-Newton observations", *Astronomy and Astrophysics*, 438, Issue 1, 39-53 (84 citations).