

PERSONAL INFORMATION

Name and title: Univ.-Prof. Dr. Alexander Shapiro

Date of birth: 17th March 1982

EDUCATION

2009 Doctorate (PhD) in Physics, ETH Zürich, Switzerland; Thesis title: “*Molecular processes and turbulent magnetic fields in the solar atmosphere*”; advisers: Prof. Svetlana Berdyugina and Prof. Jan Stenflo;

2004 Diploma (equivalent to Masters degree) in math and astronomy with honor, St.-Petersburg State University, Russia; adviser: Prof. Vsevolod Ivanov.

POSITIONS

2024 - Full Professor and the head of the stellar astrophysics research division at the Institute of Physics, University of Graz;

2017 – Leader of the SOLVe Research Group at Max Planck Institute for Solar System Research (MPS), Germany;

2014 – 2016 Marie Curie Fellow at MPS;

2008 – 2014 Postdoc at Physikalisch-Meteorologisches Observatorium Davos / World Radiation Center (PMOD/WRC), Switzerland;

2004 – 2008 PhD student at the Institute of Astronomy, Swiss Federal Institute of Technology (ETH), Zürich, Switzerland.

FELLOWSHIPS AND AWARDS (selection)

2023 Synergy Grant from the European Research Council;

2021 Max Planck Society Grant to maintain funding of my ERC group (602 kEuro);

2016 Starting Grant from the European Research Council;

2013 Marie Curie Intra-European Fellowship (application ranked in top 3% in Physics);

2000, 2002 Soros fellowships for undergraduate students;

1996 - 1998 First, second, and third prizes at highly prestigious All-Russian Olympiads in astronomy, physics and mathematics among high-school students; overall winner of Saint-Petersburg city Olympiads in physics (5 times), astronomy (4 times), and math (2 times).

SCIENTIFIC INTERESTS

- Magnetic activity of the Sun and cool stars;
- Star-planet connection;
- Numerical simulations of stellar and planetary atmospheres;
- Characterisation of exoplanets;
- Radiative transfer;
- Climatology.

PUBLICATIONS

- 96 refereed publications in leading international peer-reviewed journals, e.g. Science (2), Nature Astronomy (3), Nature Communications (1), Astronomy and Astrophysics, Astrophysical Journal, Geophysical Research Letters, Atmospheric Chemistry and Physics) ([ADS Publications refereed](#));

- 1 book chapter + 13 non-refereed publications ([ADS Publications not-refereed](#));
- Google Scholar profile - [Shapiro Google Scholar](#);

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2017 - now Main supervisor of 6 postdocs, 4 PhD-students, 2 MSc- and 2 BSc-students;
- 2011 – 2014 Day-to-day supervisor of 3 PhD-students at ETH (in Switzerland only professors are allowed to act as official supervisors) and 1 postdoc at PMOD/WRC.

LEADERSHIP POSITIONS AND INSTITUTIONAL RESPONSIBILITIES (SELECTION)

- 2019 – 2022 Leader of the International Space Science Institute (ISSI) Team 446 “Linking Solar and Stellar Variabilities”;
- 2020 – 2021 Member of Expert Working Group on Astrophysics. ESA's Directorate of Human and Robotic Exploration;
- 2020 – 2021 Co-leader of the subgroup "Stellar Photospheric Heterogeneities" in NASA Study Analysis Group 21 “The Effect of Stellar Contamination on Space-based Transmission Spectroscopy”;
- 2015 – 2020 Leader of the ESA’s Topical Team “SOLAR mission”;
- 2015 – 2020 Co-chair of the International Astronomical Union (IAU) Commission E1 Working Group “Solar Irradiance”.

PARTICIPATION IN SCIENTIFIC MEETINGS

- 31 invited oral presentations and reviews at international conferences. Examples:
 - Invited Keynote Talk at [2022 Sun-Climate Symposium](#), Madison, USA, 2022;
 - Invited Talk at International Workshop [Observing the Sun as a Star: Would we find the solar system if we saw it?](#), Göttingen, Germany, 2018;
 - Invited Talk at [14th Quadrennial Solar-Terrestrial Physics Symposium](#), Toronto, Canada, 2018;
 - Invited Review at [IAU Symposium No. 340: Long – Term Datasets for the Understanding of Solar and Stellar Magnetic Cycles](#), Jaipur, India, 2018;
 - Invited Talk at [IAU Symposium No. 328: Living around Active Stars](#), Maresias, Brazil, 2016;
 - Invited Review at [First VarSITI General Symposium](#), Albena, Bulgaria, 2016;
 - Invited Talk at [Second SOLARNET Meeting on "Solar and stellar magnetic activity"](#), Palermo, Italy, 2015.
- Over 20 oral contributed presentations;
- Over 10 invited seminar talks.

ORGANIZATION OF INTERNATIONAL SCIENTIFIC MEETINGS

- 2024 SOC member of the International Astronomical Union Symposium 400, ‘*Solar and Stellar Multi Scale Activity*’, Medellin, Columbia
- 2024 SOC member of the ‘*Sun, Space Weather and Solar-Stellar Connections*’. An international conference commemorating 125 years of Kodaikanal Solar Observatory, Bengaluru, India
- 2020 Proposer and SOC member of the selected Splinter Session “*Modeling stellar atmospheres: advances brought by solar know-how*”, at Cool Stars 21, Toulouse, France, cancelled due to COVID-19;
- 2018 Proposer and SOC member of the Splinter Session “*Stellar Brightness Variations: building on the solar knowledge*”, at Cool Stars 20, Boston/Cambridge, USA, ~100 participants;

- 2018 SOC co-chair of the Focus Meeting 9, “*Solar Irradiance: Physics-Based Advances*”, at XXX International Astronomical Union (IAU) General Assembly, Vienna, Austria, ~100 participants;
- 2016 SOC member of the Splinter Session “*Magnetically-driven solar variability in the context of Sun-like stars: peculiarities and common features*”, at Cool Stars 19, Uppsala, Sweden, ~50 participants;
- 2015 SOC co-chair of the Focus Meeting 13, “*Brightness Variations of the Sun and Sun-like Stars*”, at XXIX IAU General Assembly, Honolulu, USA, ~100 participants;
- 2014 Co-convener (SOC member) of the session “*Solar irradiance variability: Measurements, Models, Proxies, and Causes*” at EGU General Assembly, Vienna, Austria, ~50 participants;
- 2013 Co-convener (SOC member) of the session “*Solar and stellar variability: what can we learn from a joint effort?*”, EGU General Assembly, Vienna, Austria, ~50 participants;
- 2013 Co-convener (SOC member) of the session “*Space weather in planetary systems*”, Tenth European Space Weather Week, Antwerp, Belgium, ~50 participants.