## Franziska Zeuner

## Curriculum Vitae

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Research	Experie	nce
recoenter	LAPCITCE	

Since 01/2023 Postdoctoral researcher at IRSOL working in the SNF funded project **Astrophysical Spectropolarimetry**, characterizing and improving instrumentation for ground-based solar telescopes, conducting observations with

subsequent data analysis and -management

12/2019 - 12/2022 Postdoctoral researcher at IRSOL working as PI in the European SOLAR-

**NET Horizon2020 project** "Absolute high-precision solar polarimetry", developing innovative observational techniques in combination with new

instrumentation

05/2016 - 11/2019 Selected PhD candidate of the International Max Planck Research School

for Solar System Science in the group "Solar Lower Atmosphere and Magnetism" at the Max Planck Institute for Solar System Research, focusing on

ground-based solar spectropolarimetry

10/2014 - 12/2015 Scientific **research assistant** in the working group "Ultra-fast Nanophoton-

ics" at the University of Paderborn with the key aspect of measuring the optical nonlinear response of meta-surfaces

**Advanced Education** 

08/2020 Doctor rerum naturalium, magna cum laude

Title of doctoral thesis High resolution scattering spectropolarimetry of the quiet solar photosphere

Supervisors Prof. Dr. Sami K. Solanki, Prof. Dr. Ansgar Reiners, Dr. Alex Feller, Dr.

Michiel van Noort

University of Göttingen, Germany

10/2014 Master of Science, mark: 1.1 (passed with distinction)

Title of master thesis Coherent control of localized plasmonic excitations via optical nearfield coupling,

awarded with the excellent theses prize in natural sciences of the Univer-

sity of Paderborn 2014

Supervisor Prof. Dr. Thomas Zentgraf

University of Paderborn, Germany

01/2013 Bachelor of Science, mark: 1.6

Title of bachelor thesis Realisation and characterisation of an actively stabilized Michelson-interferometer

for coherent control of NIR-fs-pulses

Supervisor Prof. Dr. Thomas Zentgraf

University of Paderborn, Germany

Selected recent Conference contributions and Talks

Squadra di Sopra 22 – 6644 Orselina, Switzerland

- Invited keynote talk **F. Zeuner**: Hanle rotation finally revealed in Sr I 4607 Å *Solar Polarization Workshop 10*, Kyoto, Japan (2022)
- Invited MERAC talk **F. Zeuner**: High-precision spectro-polarimetric measurements with enhanced accuracy for probing the unresolved solar photospheric magnetic field *Swiss Society for Astronomy and Astrophysics GA*, Bern, Switzerland (2022)
- Invited seminar talk **F. Zeuner** et al.: How a "simple" spectral line continues to challenge paradigms in solar physics *Solar physics group seminar*, IAC, La Laguna, Spain (2021)
  - Invited talk **F. Zeuner** et al.: Scattering polarization measurements with FSP and FSP II NSO Seminar, DKIST Science Workshop, Boulder, USA (2018)

## Grants and accepted Proposals

- Observation **DKIST**, 2023, PI in the proposal *Spatio-temporally resolved linear scattering* polarization in the Sr I line at 4607 A: a window to the small-scale photospheric magnetism accepted in Cycle 2.
- Observation **DKIST**, 2023, Co-I in the proposal *Probing the Photospheric Conditions for Spectral Line Scattering in Sr* 4607 (PI: I. Milic) accepted in Cycle 2.
  - Fund **SOLARNET Mobility**, 2023, funded two month project *Interpreting spatially resolved scattering polarization measurements with high-precision and enhanced accuracy for probing the solar photospheric magnetic field at the Institute fors Astrophyics of the Canary Islands/Spain (2000 CHF).*
  - Support Kyoto University, 2022, 1900 CHF Traveling Support
- Observation **GREGOR**, 2022, proposal *ZIMPOL@GREGOR*: Observing scattering polarization with high resolution, high-precision and enhanced accuracy (Zeuner et al.) accepted in Cycle 2022B.
  - Award Swiss Society for Astronomy and Astrophysics, 2022, 2430 CHF MERAC Travel Award
  - Support Swiss Society for Astronomy and Astrophysics, 2021, 1580 CHF Young Scientist Support
- Observation **DKIST**, 2021, Co-I in the proposal *Are chromospheric swirls torsional Alfven waves?* (PI: A. Battaglia) accepted in Science Merit Group B in Cycle 1.
- Observation National Solar Observatory, 2017, 2 weeks stay at the Dunn Solar Telescope, New Mexico, USA