

Dr. Veronika Witzke
Curriculum Vitae

Institute of Physics, University of Graz
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RESEARCH INTEREST

- Radiative transfer in stellar atmospheres
- Magnetohydrodynamics, fluid dynamics, instabilities and turbulence
- Stellar magnetic activity and exoplanets

EMPLOYMENT

Senior Scientist UNIVERSITY OF GRAZ (KARL-FRANZENS-UNIVERSITÄT GRAZ), AUSTRIA	10/2024 – present
Postdoctoral Researcher MAX PLANCK INSTITUTE FOR SOLAR SYSTEM RESEARCH, GERMANY	03/2017–09/2024

EDUCATION

PhD in Applied Mathematics CITY, UNIVERSITY OF LONDON, UNITED KINGDOM Thesis: Shear Flow Instabilities in Stars; Linear Stability and Non-Linear Evolution Supervisor: Dr L. J. Silvers (funded by Science and Technology Facilities Council)	10/2013–08/2017
Master of Science in Physics LUDWIG MAXIMILIAN UNIVERSITY OF MUNICH, GERMANY	10/2010–05/2013
Bachelor of Science in Physics LUDWIG MAXIMILIAN UNIVERSITY OF MUNICH, GERMANY	10/2007–08/2010

ORGANISATION OF SCIENTIFIC MEETINGS

Co-proposer and SOC member, Cool Stars 21, postponed due to COVID-19 Splinter Session: 'Modelling stellar atmospheres: advances brought by solar know-how'	2020
Co-proposer and SOC member, Cool Stars 20, Boston/Cambridge, USA, 100 participants Splinter Session: 'Stellar Brightness Variations: building on solar knowledge'	2018
Organiser for PhD seminars across several departments, CITY, UNIVERSITY OF LONDON	2014 – 2016

TEACHING AND SUPERVISION EXPERIENCE

Reading lectures - The Galaxy and extragalactic systems - Astrophysics Lab - Introduction to GR and cosmology (full course) - Selected lectures on instrumentation and observation techniques UNIVERSITY OF GRAZ	10/2024 – present
Assistance in teaching - Selected lectures on magnetic active regions and modelling MAX PLANCK INSTITUT FOR SOLAR SYSTEM RESEARCH	01/2024
Supervision - master student supervision of Hanna-Bianca-Duehnen MAX PLANCK INSTITUT FOR SOLAR SYSTEM RESEARCH	11/2020 – 08/2021
Assistance in supervision - PhD-thesis by Nina Nemec (09/2018–02/2021), - bachelor's thesis by Hanna B. Duehnen (09/2018–04/2019) - master's thesis by Miha Cernetic (05/2017–09/2019), MAX PLANCK INSTITUT FOR SOLAR SYSTEM RESEARCH	05/2017–02/2021
Tutor for programming labs and maths in actuarial science, CITY, UNIVERSITY OF LONDON	10/2014–06/2016

SELECTED TALKS

Talk: 'Effect of metallicity on magnetic features in Sun-like stars', 9th BCool Meeting, Online, Germany	April 2021
Talk: 'The effect of metallicity on the detectability of rotational periods in Sun-like stars', 16th Thinkshop: The rotation periods of cool stars, Potsdam, Germany	Sept. 2019
Talk: 'Modelling Brightness Variability of Sun-like Stars', Cool Stars 20, Boston/ Cambridge, USA	July 2018
Talk: 'Does the Sun behave unusually for a Sun-like Star?', IAU Symposium 340, Jaipur, India	Feb 2018
Invited Seminar: 'How Investigating Shear-Driven Turbulence Helps to Understand Stellar Interiors', Solar Group Seminar, MPS, Göttingen, Germany	Dec 2016
Talk: 'Dynamo Action in Turbulent Fully Compressible Shear Flows', UK MHD Meeting, Glasgow, UK	May 2016
Talk: 'Shear Instabilities in a Fully Compressible Polytopic Atmosphere', Joint British Mathematical Colloquium & British Applied Mathematics Colloquium, Cambridge, UK	April 2015
Invited Seminar: 'Magnetohydrodynamics Applied to Stellar Objects', University of Kent, Canterbury, UK	March 2015

