Nina-Elisabeth Nèmec
Curriculum vitae

Personal Information

Contact Details:	Max Planck Institute for Solar System Research Justus-von-Liebig-Weg 3, 37077 Göttingen, Germany nemec@mps.mpg.de, +49 551 384 979-369
Date of birth	October 16th, 1993
Place of birth	Amstetten, Austria
Nationality	Austrian

Education

2017 – 2021	PhD in Physics from the University of Göttingen, at the International Max Planck Research School (IMPRS) at the Max Planck Institute for Solar System Research (MPS) and the University of Göttingen, Göttingen, Germany
Thesis Title	Exploring the solar paradigm to explain stellar variability
Advisors	Dr Alexander I. Shapiro, Dr Natalie A. Krivova, Prof. Dr Stefan Dreizler
2015 – 2017	MSc in Astronomy at the University of Vienna, Vienna, Austria
Thesis Title	The XUV Sun in time
Advisor	Prof. Dr Manuel Güdel
2016 – 20217	Erasmus + study, KU Leuven, Leuven, Belgium
2012 – 20215	BSc in Astronomy at the University of Vienna, Vienna, Austria
Thesis Title	The solar wind in time
Advisor	Prof. Dr Manuel Güdel

Current Position

2021 – present	Post-doctoral researcher in SOLVe Group at MPS
Lead	Dr Alexander I. Shapiro

Previous Positions

2017 – 2021	Doctoral researcher in SOLVe Group at MPS
Lead	Dr. Alexander I. Shapiro
2014 – 2017	Res Assistant in the FWF Project “Pathways to Habitability” at the University of Vienna
Lead	Prof. Dr. Manuel Güdel
2014 – 2017	Res Assistant in the Star and Planet Formation Group at the University of Vienna
Lead	Prof. Dr. Manuel Güdel

Scholarships and Honours

2021	Graduated with highest distinction (summa cum laude) at the University of Göttingen
2017	Performance Scholarship, University of Vienna
2016	Erasmus+ Scholarship for KU Leuven, Belgium
2016	Performance Scholarship, University of Vienna
2015	Performance Scholarship, University of Vienna
2015	Scholarship Alpbach Summer School 2015

Publications

K. Sowmya, **N.-E. Nèmec**, A. I. Shapiro, E., E. Isık, V. Witzke, A. Mints, N. A. Krivova, and S. K. Solanki: *Predictions of astrometric jitter for Sun-like stars. II. Dependence on inclination, metallicity, and active region nesting*, submitted to ApJ

K. Sowmya, A. I. Shapiro, V. Witzke, **N.-E. Nèmec**, T. Chatzistergos, N. A. Krivova, and S. K. Solanki: *Modeling stellar Ca II H & K emission variations. I. Effect of inclination on the S-index.*, accepted for publication in ApJ

T. Reinhold, A. I. Shapiro, V. Witzke, **N.-E. Nèmec**, E. Isık, and S. K. Solanki: *Where have all the solar-like stars gone? Rotation period detectability at various inclinations and metallicities*, 2021, ApJL, 908

N.-E. Nèmec, E. Isık, A. I. Shapiro, S. K. Solanki, N. A.Krivova, and Y. Unruh: *Connecting measurements of solar and stellar brightness variations*, 2020, A&A, 638, A56

N.-E. Nèmec, A. I. Shapiro, N. A. Krivova, R.V. Tagirov, R. H. Cameron, S. K. Solanki and S. Dreizler: *Power spectra of solar brightness variations at different inclinations*, 2020, A&A, 636, A43

D. Shulyak, L. M. Lara, M. Rengel, and **N.-E. Nèmec**: *Stellar impact on disequilibrium chemistry and observed properties of hot Jupiter atmospheres*, 2020, A&A, 639, A48

Oral presentations at international meetings

N.-E. Nèmec, E. Işik, A. I. Shapiro, T. Reinhold, S. K. Solanki, and N. A. Krivova, *Forward modelling of stellar surface magnetic fields and brightness variations*, BCool 2021, virtual meeting

N.-E. Nèmec, A.I. Shapiro, N. A. Krivova, R. H. Cameron, S. K. Solanki, S. Dreizler, *Solar brightness variations as they would be observed by the Kepler telescope*, Observing the Sun as a star, Göttingen, Germany, 2018

N.-E. Nèmec, A.I. Shapiro, N. A. Krivova, R. H. Cameron, S. K. Solanki, S. Dreizler, *Solar brightness variations as they would be observed by the Kepler telescope*, XXXth General Assembly of the International Astronomical Union, Vienna, Austria, 2018

N.-E. Nèmec, A.I. Shapiro, N. A. Krivova, R. H. Cameron, S. K. Solanki, S. Dreizler, *Solar brightness variations as they would be observed by the Kepler telescope*, Sun-Climate Symposium, Lake Arrowhead/California, USA, 2018

N.-E. Nèmec, M. Güdel, T. Lüftinger, C.P. Johnstone, *The XUV Sun in Time*, General Assembly of the German Astronomical Union, Göttingen, Germany, 2017

Services to the community and outreach activities

2019	Lecture for high school students in the framework of the Future Day at MPS
2019	Presentation of a scientific project (exhibition stand) at the Night of Science, Göttingen
2018 – 2019	Member of Max Planck PhDnet working group on Open Science and Good Scientific Practice
2018 – 2019	Member of Max Planck PhDnet working group to organise the General Meeting of the PhDnet in 2019
2018 – 2019	Member of the Executive Committee of IMPRS at MPS
2018 – 2019	PhD Student Representative of IMPRS at MPS
2016	Member of LOC, *Conference "The Astrophysics of Habitability"*, Vienna, Austria
2016	Presentation of a scientific project (exhibition stand) at "Lange Nacht der Forschung", Vienna, Austria
2015 – 2017	Chief Faculty Student Representative, University of Vienna
2015 – 2017	Student Representative for Astronomy, University of Vienna

Teaching

Summer 2019	TA “Experimental Physics IV” at University of Göttingen
Summer 2019	TA “Analytical Mechanics” at University of Göttingen
Summer 2018	Supervision of two high school students during their 2 weeks internship at MPS
Winter 2018	TA “Calculation methods” at University of Göttingen
Summer 2017	TA “Lab: Introduction to astronomical methods” at University of Vienna
Summer 2016	TA “Lab: Introduction to astronomical methods” at University of Vienna
Winter 2015	TA “Mathematical Methods I” at University of Vienna
Winter 2014	TA “Introduction to Astronomy” at University of Vienna

Göttingen, Germany, 31 May 2021