

Curriculum Vitae for Ulrike Heiter

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Academic degrees

- 1996 Master of Science degree in Astronomy (*University of Vienna, Austria*)
- 2000 PhD degree in Astronomy (*University of Vienna, Austria*)
Thesis: *Spectroscopy of λ Bootis Stars*
Supervisor: *Dr W.W. Weiss*
- 2006 Docent in Astronomy (*Uppsala University, Sweden*)

Past positions

- 2001–2003 Postdoctoral position, Department of Astronomy, *Case Western Reserve University*, Cleveland, OH, USA (NSF/NASA project *Spectroscopy in the Local Neighborhood*)
- 2003–2007 Assistant Professor in Observational Astrophysics (Forskarassistent),
Department of Astronomy and Space Physics, *Uppsala University*

Present position

- 2008– Researcher, Department of Physics and Astronomy, *Uppsala University*,
Sweden, funded by Swedish National Space Board (SNSB), Knut and Alice
Wallenberg Foundation, and Uppsala University

Supervision of doctoral degrees

- Anna Önehag*, “Solar-type stars as calibrators”,
Uppsala University, PhD in Astronomy 2011 (main supervisor).
- Sergi Blanco Cuaresma*, “Testing the chemical tagging technique with Open Clusters”,
University of Bordeaux, PhD Oct 2014 (secondary mentor).
- Sara Lindgren*, “IR spectroscopy of M dwarfs, with and without planetary systems”,
Uppsala University, PhD expected 2017 (main supervisor).
- Thomas Nordlander*, “Calibrating Gaia and the Gaia-ESO survey”,
Uppsala University, PhD expected 2016 (co-supervisor).

Teaching commitments on bachelor and master level

- 2013– Supervision of bachelor and master thesis projects
- 2010–2015 *The Physics of Stars* (10 credits), *The Physics of Planetary Systems* (10 credits)
- 2010–2015 *Mechanics* (5 credits)
- 2005–2015 Participation in Physics orientation courses
- 2005, 2006 *Stellar structure and evolution* (5 credits)
- 2004, 2005 *The physics of the interstellar medium* (5 credits)

Scientific interests and presentation of scientific results

- Studying the formation and evolution of the Milky Way galaxy
- Observing and analysing spectra of low-mass stars and planetary host stars
- Testing and improving stellar atmosphere models and synthetic spectra
- Wrote and co-authored **66 publications in refereed journals** since 1997, with over 1500 citations.
- **~40 contributions** to the proceedings of **international conferences**.
- Scientific or public **talks** (about 5 per year) at international conferences, project meetings, Astronomy departments, summer schools, and public outreach events.

Research grants awarded

2008–2018	Main applicant for research grants from SNSB (Rymdstyrelsen) for projects related to the <i>Gaia</i> mission (7.8 MSEK)
2012–2020	Co-applicant for SNSB projects (PhD student funding)
2005–2009	Co-applicant for grants from SNSB and VR (Swedish Research Council)
2006–2010	Research, teaching, and travel grants from Uppsala University, VR, Royal Swedish Academy of Sciences, and European Science Foundation

Appointments

2006–present	Member of the “Data Processing and Analysis Consortium” for the ESA space mission <i>Gaia</i>
2011–present	Co-I and Builder of the <i>Gaia-ESO</i> Public Spectroscopic Survey
2012–present	Member of the <i>CRIFES+</i> Consortium (Instrument Scientist)
2009–2014	Work Package leader in EU-FP7 projects <i>VAMDC</i> and <i>SUP@VAMDC</i> (“Virtual Atomic and Molecular Data Center”)
2007–present	Member of PhD examination committees, Uppsala University, Lund University, Stockholm University, Chalmers University (Gothenburg), University of Porto, University of Bordeaux (about once per year)
2010, 2014	Hubble Space Telescope Proposal Review Panel Member
2009, 2010, 2014, 2015	Visiting professor (1 month each), Université Bordeaux 1, and Université Nice Sophia Antipolis, France
2007–2009	Member of the national coordination committee for the International Year of Astronomy 2009
2007–2008	Book proposal reviewer for <i>John Wiley & Sons</i>
2006–present	Member of the <i>VALD team</i> (Vienna Atomic Line Database)
2006–present	Member of the International Astronomical Union
2004–present	Referee for several Astronomical journals

Observing experience

- About 100 visiting observing nights at European Southern Observatory (ESO, La Silla), Observatoire de Haute Provence, Osservatorio Astronomico di Padova, Kitt Peak National Observatory (Tucson, Arizona), McDonald Observatory (Fort Davis, Texas), CHARA Array (Mt. Wilson, California, remote operations from Nice, France).
- More than 100 hours of service observing time obtained at ESO - Paranal, Telescopio Nazionale Galileo (La Palma) and T el escope Bernard Lyot (Pic du Midi).

Publications by U. Heiter

Ten publications most relevant to current scientific interests are listed below, most recent first, all are peer-reviewed. The number of citations is given according to ADS (the SAO/NASA Astrophysics Data System, retrieved 2016-01-02).

1. **Heiter, U.**, Jofré, P., Gustafsson, B., Korn, A. J., Soubiran, C., and Thévenin, F., *Gaia FGK benchmark stars: Effective temperatures and surface gravities*, 2015, *Astronomy and Astrophysics* 582, A49
Number of citations: 9
2. Creevey, O. L., Thévenin, F., Berio, P., **Heiter, U.**, von Braun, K., Mourard, D., Bigot, L., Boyajian, T. S., Kervella, P., Morel, P., and 11 co-authors, *Benchmark stars for Gaia: Fundamental properties of the Population II star HD 140283 from interferometric, spectroscopic, and photometric data*, 2015, *Astronomy and Astrophysics* 575, A26
Number of citations: 8
3. Blanco-Cuaresma, S., Soubiran, C., Jofré, P., and **Heiter, U.**, *The Gaia FGK benchmark stars. High resolution spectral library*, 2014, *Astronomy and Astrophysics* 566, A98
Number of citations: 20
4. Bergemann, M., Ruchti, G. R., Serenelli, A., Feltzing, S., Alves-Brito, A., Asplund, M., Bensby, T., Gruyters, P., **Heiter, U.**, Hourihane, A., and 37 co-authors, *The Gaia-ESO Survey: radial metallicity gradients and age-metallicity relation of stars in the Milky Way disk*, 2014, *Astronomy and Astrophysics* 565, A89
Number of citations: 39
5. Jofré, P., **Heiter, U.**, Soubiran, C., Blanco-Cuaresma, S., Worley, C. C., Pancino, E., Cantat-Gaudin, T., Magrini, L., Bergemann, M., González Hernández, J. I., and 15 co-authors, *Gaia FGK benchmark stars: Metallicity*, 2014, *Astronomy and Astrophysics* 564, A133
Number of citations: 54
6. **Heiter, U.**, Soubiran, C., Netopil, M., and Paunzen, E., *On the metallicity of open clusters. II. Spectroscopy*, 2014, *Astronomy and Astrophysics* 561, A93
Number of citations: 21
7. Bailer-Jones, C. A. L., Andrae, R., Arcay, B., Astraatmadja, T., Bellas-Velidis, I., Berihuete, A., Bijaoui, A., Carrión, C., Dafonte, C., Damerdji, Y., and 39 co-authors, *The Gaia astrophysical parameters inference system (Apsis). Pre-launch description*, 2013, *Astronomy and Astrophysics* 559, A74
Number of citations: 34
8. Önehag, A., **Heiter, U.**, Gustafsson, B., Piskunov, N., Plez, B., and Reiners, A., *M-dwarf metallicities. A high-resolution spectroscopic study in the near infrared*, 2012, *Astronomy and Astrophysics* 542, A33
Number of citations: 34

9. Luck, R. E. and **Heiter, U.**,
Giants in the Local Region,
2007, The Astronomical Journal 133, 2464
Number of citations: 107
10. Zima, W., Wright, D., Bentley, J., Cottrell, P. L., **Heiter, U.**, Mathias, P., Poretti, E.,
Lehmann, H., Montemayor, T. J., and Breger, M.,
A new method for the spectroscopic identification of stellar non-radial pulsation modes. II. Mode identification of the δ Scuti star FG Virginis,
2006, Astronomy and Astrophysics 455, 235
Number of citations: 43

The **total number of publications** and the number of citations in different categories are listed in the table below.

Category	Publications	Citations
Peer-reviewed articles, accepted for publication	2	
Peer-reviewed articles	59	1506
Peer-reviewed conference contributions	5	26
Review articles, book chapters, books	2	
Open access databases	4	
Popular scientific articles or web pages	2	

HTML links

Full lists of peer-reviewed articles at ADS – 66 articles, 1532 citations

- Peer-reviewed articles, accepted for publication: http://cdsads.u-strasbg.fr/cgi-bin/nph-abs_connect?db_key=PRE&author=heiter%2C+u&start_year=2015&start_mon=10&ref_stems=arXiv&sort=CITATIONS
- Peer-reviewed articles: http://cdsads.u-strasbg.fr/cgi-bin/nph-abs_connect?db_key=AST&author=heiter%2C+u&jou_pick=NO&ref_stems=-CoSka%2C+PhST%2C+JPhCS%2C+PASP&sort=CITATIONS
- Peer-reviewed conference contributions: http://cdsads.u-strasbg.fr/cgi-bin/nph-abs_connect?db_key=AST&author=heiter%2C+u&jou_pick=NO&ref_stems=CoSka%2C+PhST%2C+JPhCS%2C&sort=CITATIONS

Contributions to open access databases

- *The Gaia FGK Benchmark Stars – Library of high resolution and high signal to noise ratio stellar spectra*: <http://www.blancocuaresma.com/s/benchmarkstars/>
- *The VALD database of atomic and molecular data*: <http://vald.astro.uu.se/>
- *The FGK Stars Spectral Library*: <http://bifrost.astr.cwru.edu/FGKasp/index2.php>
- *Vienna New Model Grid of Stellar Atmospheres*: <http://www.univie.ac.at/nemo/>

Popular scientific publications

- Popular article on Gaia (in Swedish): *Att mäta en miljard stjärnor*
David Hobbs, Lennart Lindegren, Ulrike Heiter och Andreas Korn,
Populär Astronomi 2013, nummer 3,
http://www.popast.nu/wp-content/uploads/2013/09/2013_3_gaia1.pdf
- Popular web page on stellar spectroscopy: *Rainbows in Starlight*
<http://www.astro.uu.se/~ulrike/Spectroscopy.html>