

Johannes Sahlmann – CV

Address: Space Telescope Science Institute (STScI)
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Date of birth: June 27, 1980 in Hamburg, Germany

Citizenship: Germany, France

Languages: German, French, English, Portuguese, Spanish, Swedish

Website: <https://johannessahlmann.com>

Github handle: <https://github.com/Johannes-Sahlmann>

Professional experience

11.2016 – present Support Scientist at Space Telescope Science Institute (STScI), Baltimore, USA (80% functional duties and 20% self-directed research)

09.2013 – 08.2016 European Space Agency (ESA) Research Fellow at European Space Astronomy Centre, Madrid, Spain and STScI, Baltimore, USA

07.2012 – 08.2013 Post-doctoral fellow at Observatoire de Genève, Switzerland

03.2009 – 06.2012 Ph.D. candidate at Observatoire de Genève, Switzerland

09.2005 – 02.2009 Undergraduate and Postgraduate associate at the European Southern Observatory (ESO)

11.2003 – 06.2004 Research assistant at Kiepenheuer Institute for Solar Physics, Germany

09.1999 – 07.2000 Eleven months of alternative service in lieu of compulsory military service in Germany, performing social aid services.

Education

03.2007 – 06.2012 Ph.D. in Astronomy and Astrophysics, Université de Genève, Switzerland. Thesis entitled *Observing Exoplanet Populations with High-Precision Astrometry* and supervised by Prof. Dr. Didier Queloz. Includes two years (2007–2009) of research stay at ESO in Germany and Chile.

09.2003 – 02.2007 *Diplom*-degree in physics, Albert-Ludwigs-Universität Freiburg, Germany. Includes 18 months (2005–2007) of thesis project at ESO Germany. The thesis entitled *System Performance Characterisation of the PRIMA Fringe Sensor Unit* and supervised by Prof. Dr. Oskar von der Lühe.

09.2002 – 08.2003 Student of physics and astrophysics at Göteborg Universitet, Sweden.

09.2000 – 08.2002 *Vor-Diplom* in physics, Albert-Ludwigs-Universität Freiburg, Germany.

Skills

Programming languages:	Python, Java, Matlab, SQL, Yorick
Version control:	git, SVN, github, gitlab
Continuous delivery:	Travis, Jenkins, pytest, Anaconda, PyPI
Documentation:	Sphinx, Read the Docs
Web:	Django, HTML, Javascript
Methodologies:	Waterfall, Agile
Model fitting:	General least-square and other methods, Genetic Algorithms, Markov Chain Monte Carlo techniques, Wavelets
Issue tracking:	JIRA, github projects
Document preparation:	L ^A T _E X, macOS Keynote, Microsoft Office
Operating systems:	macOS, Linux, Windows

Professional achievements

51 peer-reviewed papers (13 as lead author); 36 contributed papers (12 as lead author)
 6 STScI technical reports (4 as lead author), 10 ESA technical reports (8 as lead author)
 7 ESO technical reports (5 as lead author)

Conferences and talks

Participation in 29 international conferences presenting 16 talks and 15 posters
 19 science seminars in internationally renowned institutes

Awards

STScI individual achievement award for *Major Calibration Advances for HST and JWST*, 2019
 ESA Research Fellowship in Space Science, 2013
 Best PhD Dissertation Prize, SPIE conference Optical and Infrared Interferometry III, 2012

Services and memberships

Member of International Society for Optics and Photonics SPIE (2006–2010), Swiss Society for Astrophysics and Astronomy (2010–), American Astronomical Society (2015–), International Astronomical Union (2018–), European Astronomical Society (2019–)
 Member of the Gaia Data Processing and Analysis Consortium DPAC (since 2013)
 Referee for *Astrophysical Journal*, *Astronomical Journal*, *Astronomy & Astrophysics*, *Monthly Notices of the Royal Astronomical Society*, *Experimental Astronomy*, *Astrophysics and Space Science*, and *Publications of the Astronomical Society of the Pacific* (19 papers since 2011)
 Scientific Organising Committee Co-chair for symposium at International conference European Week of Astronomy and Space Science (2014)
 Outreach activities in the form of public presentations of the Geneva Observatory and its research activities in French, English, and German (2009-2012)

Astronomical observations at professional observatories

45 nights of scientific observations with a 1.2 m telescope (Swiss telescope, La Silla, Chile)
 91 nights of technical observations for Very Large Telescope and VLTI commissioning
 >25 nights on 8m-class telescopes as Principal Investigator, competitively awarded