



Europass curriculum vitae

Personal information

First names/ Surname

Dipl. Phys. Dr. Helmut Wilfried Wäsemeyer

Addresses

Instituto de Radioastronomía Milimétrica

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Telephones

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E-mail

wiesemeyer@iram.es

Nationality

German

Date of birth

12 May 1968

Family Status

married, two children

Work experience

Dates

May 1997 to present

Occupation or position held

Astronomer (post-doctoral fellow, since May 2005 staff member)

Main activities and responsibilities

Main research activity: Polarization of thermal and non-thermal radiation from star-forming regions, late-type stars and active galactic nuclei. Radiative transfer. Novel technologies and methods in radio astronomy and polarimetry. Transient phenomena in astrophysics.

Jointly responsible for the development of data processing software for the Pico Veleta observatory, managing heterodyne observations.

Commissioning of receivers and associated spectrometers for the 30m telescope.

Astronomer on duty and local contact for IRAM's observatories.

Lecturer and local organizer for several of IRAM's mm-wave interferometry schools, tutor for interferometer data reduction.

Name and address of employer

Institut de Radio Astronomie Millimétrique, 300 rue de la piscine,
Domaine Universitaire, F-38406 St. Martin d'Hères, France

Type of business or sector

Research company

Education and training

Dates	August 1994 – April 1997
Title of qualification awarded	Dr. rer. nat.
Principal subjects/Occupational skills covered	PhD thesiswork on “The Spectral Signature of Accretion in Low-Mass Protostars – Observations and Non-LTE Modelling”. Elective course in geochemistry.
Name and type of organisation providing education and training	Rheinische Friedrich-Wilhelms-Universität Bonn and Max-Planck-Institut für Radioastronomie
Level in national classification	Summa cum laude.
Dates	October 1990 - July 1994
Title of qualification awarded	Diploma in physics
Principal subjects/Occupational skills covered	Diploma thesis on “High resolution observations of star forming regions”. Elective courses in astronomy and numerical analysis. Practical training at Institut de Radioastronomie Millimétrique (interferometric astrometry of SiO masers in Orion), Grenoble, and at Max-Planck-Institut für Radioastronomie, Bonn.
Name and type of organisation providing education and training	Bayerische Julius-Maximilians-Universität Würzburg, Université Joseph Fourier Grenoble, and Max- Planck-Institut für Radioastronomie, Bonn.
Level in national classification	sehr gut
Dates	October 1988 – October 1990
Title of qualification awarded	Vordiplom (German pre-degree examination) in physics (elective courses in chemistry)
Name and type of organisation providing education and training	Bayerische Julius-Maximilians-Universität Würzburg
Level in national classification	sehr gut
Dates	1978 – 1987
Title of qualification awarded	Abitur (German school leaving examination)
Name and type of organisation providing education and training	König-Wilhelm-Gymnasium, Höxter
Level in national classification	sehr gut
Dates	1974 – 1978
Name and type of organization providing education and training	Grundschule im Petrifeld, Höxter

Personal skills and competences

Mother tongue German

Other language(s)

Self-assessment

European level ^(*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	

English

French

Spanish

C2 proficient user	C2 proficient user	C2 proficient user	C2 proficient user	C2 proficient user
C2 proficient user	C2 proficient user	C2 proficient user	C2 proficient user	C2 proficient user
A2 basic user	B1 independent user	A3 basic user	A2 basic user	A2 basic user

^(*) Common European Framework of Reference (CEF) level

Social skills and competences, teaching

- High degree of capacity for teamwork.
- Teaching experience: digital data analysis (lecture and exercises), mentoring of visiting scientists and of student internships.

Organisational skills and competences, fundraising

- organization of high-level scientific conferences, including fund-raising and budget administration
- coordination of observing campaigns at the 30m telescope (technical and human resources management)

Technical skills and competences

- observing techniques for radio and far-infrared astronomy, characterization of receivers and associated spectrometers, including space projects
- Author of MIRA, a data processing package for spectroscopy at the 30m telescope (part of the GILDAS project, a program library for ground- and space-based radio- to submm-astronomy and interferometric image analysis).
- polarimetry in mm- and submm astronomy (methods, software, observing)
- creation and administration of databases including web-based access
- setting up complex observing programs for the 30m telescope and Plateau de Bure interferometer

Computer skills and competences

- programming in Fortran 90/95 and C (ANSI standard)
- use of libraries for numerical analysis (NAG library, Numerical Recipes)
- software development with configuration management (version control system CVS)
- experience with a relational database management system (mySql) and web-based access to databases (scripting language PHP and its embedding into HTML)
- use of scripting languages