

Curriculum Vitae — Fabian Walter

Personal Details

Name: Fabian Walter
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Present Occupation

- Aug 2004–present: Group Leader/Staff Scientist
 Max Planck Institut für Astronomie, Heidelberg, Germany

Previous Occupations

- 2002–2004: Jansky Postdoctoral Fellow (Research Associate)
 National Radio Astronomy Observatory, USA
- 1999–2002: Postdoctoral Scholar in Radio Astronomy
 Owens Valley Radio Observatory
 California Institute of Technology, USA

Education

- *Ph.D.* in Astronomy (Summa Cum Laude), 1999
 Institute for Radio Astronomy, University of Bonn, Germany
 Title of Ph.D. Thesis: ‘*The Violent Interstellar Medium of Nearby Dwarf Galaxies*’,
 Advisors: Prof. E. Brinks (U. of Guanajuato) and Prof. U. Klein (U. of Bonn)
- *M.Sc.*, Physics (GPA: 4.00/4.00), 1995
 University of New Mexico (UNM), Albuquerque, NM, and
 National Radio Astronomy Observatory, Socorro, NM
 Title of Master Thesis: ‘*A Search for Dark Matter in II Zwicky 33 and its Companion*’,
 Advisors: Prof. N. Duric (UNM) and Prof. E. Brinks (NRAO)
- *Vordiplom*, Physics (grade: sehr gut, A)
 Department of Physics, University of Würzburg, Germany (May 1993)
- *Abitur*, majors: Mathematics & Physics (grade: 1.7/1.0)
 Friedrich–List–Gymnasium, Reutlingen, Germany (June 1990)

Fields of Interest

- The Highest–Redshift Quasars/Epoch of Reionization.
- Evolution of Galaxies/QSOs through Cosmic Times.
- The Structure and Evolution of the Interstellar Medium in Galaxies.
- Star Formation in Nearby and Distant Galaxies.
- (Sub)mm Astronomy.

Postdocs/Students in my group:

Name	years	Where they came from...	Where they are now...
Dr. John Cannon	04–06	University of Minnesota	Assistant Professor Macalester College, USA
Dr. Kirsten Knudsen	04–07	Leiden University	Staff, Onsala, Sweden
Dr. Jaron Kurk	04–09	Arcetri Observatory	MPE
Dr. Helene Roussel	05–07	CalTech	Staff Astronomer, IAP, France
Dr. Adam Leroy	06–10	Berkeley	Staff, NRAO
Dr. Thomas Greve	07–10	CalTech	Professor, Copenhagen
Dr. Sebastian Jester	07–09	Univ. Southampton/MPIA	BMBF
Dominik Riechers	04–07	MPIfR Bonn	Senior Postdoc, Caltech
Frank Bigiel	05–08	Heidelberg University	Gliese Fellow, Heidelberg
Gisella de Rosa	08–11	Trieste University	Postdoc, Ohio State
Andreas Schrubba	08–11	Heidelberg University	Postdoc, Caltech
Dr. Eric Morganson	09–present	Stanford	MPIA
Dr. Karin Sandstrom	09–present	Berkeley	MPIA
Dr. Roberto Decarli	09–present	Como, Italy	MPIA
Dr. Jacqueline Hodge	10–present	UC Davis	MPIA
Dr. Bram Venemans	11–present	ESO	MPIA
Dr. Elisabete da Cunha	11–present		MPIA
Anahi Caldu Primo	11–present	UNAM, Mexico	MPIA
Eduardo Banados Torres	11–present	Catolica, Chile	MPIA

Awards/Honors

- Member of the International Astronomical Union (since 2002).
- Jansky Postdoctoral Fellowship, National Radio Astronomy Observatory, 2002
- PhD, Summa Cum Laude, Bonn University, 1999
- “Hörlein Prize” for outstanding PhD Thesis, Bonn University, Germany, 1999
- Full Member of the American Astronomical Society (since 1998)
- Fellowship in the Graduate School ‘The Magellanic Clouds and other dwarf galaxies’ by the German Science Foundation (DFG), 1996–1999
- Award of a place at the University of New Mexico at Albuquerque (Würzburg 1993)
- Scholarship for outstanding students, Baden–Württemberg, Germany, 1989, 1990

Meetings/Conferences/Workshops attended, Aug 2004–present

- Aug 2004, Bad Honneff, ‘Evolution of Starbursts’
- Sep 2004, Cambridge, ‘Starbursts - from 30 Doradus to Lyman break galaxies’
- Sep 2004, Garching, ‘ALMA community day’ (*invited talk*)
- Oct 2004, Heidelberg, ‘SED in gas–rich galaxies’
- Oct 2004, Paris, ‘The Dusty and Molecular Universe — A Prelude to HERSCHEL and ALMA’ (*invited talk*)
- Nov 2004, Bad Honneff, Meeting of DFG Priority Program

- Jan 2005, Bad Honneff, Meeting of Bonn/Bochum Graduate School (*invited talk*)
- Jan 2005, Heidelberg Colloquium (*invited talk*)
- Jan 2005, Basel Colloquium (*invited talk*)
- Feb 2005, Göttingen Colloquium (*invited talk*)
- Feb 2005, Obergurgl, ‘Surveying the Universe – Spectroscopic and Imaging Surveys for Cosmology’ (*invited talk*)
- Mar 2005, Ringberg, “Multi-Wavelength Surveys” (*invited talk*)
- Jun 2005, Boston (CfA), ‘Submillimeter Astronomy in the era of the SMA’ (*invited talk*)
- Aug 2005, Garching, MPA/ESO conference ‘Open questions in Cosmology’ (*invited talk*)
- Sep 2005, Irsee, Meeting of the DFG Priority Program
- Sep 2005, Köln, Annual Meeting of the ‘Astronomische Gesellschaft’
- Oct 2005, Leiden, ‘Science Requirements for a Far-Infrared Mission (FIRM)’ (*invited talk*)
- Nov 2005, Pasadena, ‘Spitzer Galaxy Evolution’
- Nov 2005, Pasadena, SINGS team meeting
- Jan 2006, Washington, 207th Meeting of the American Astronomical Society
- Jan 2006, Charlottesville, ‘From Z-machines to ALMA’ (*invited talk*)
- Feb 2006, Garching, ESO Colloquium (*invited talk*)
- Mar 2006, Ringberg, ‘Dwarf Galaxies as Cosmological Probes’ (*organizer*)
- Jun 2006, Ishigaki, ‘Mapping the Galaxy and Nearby Galaxies’
- Aug 2006, Prague, 26th General Assembly of the IAU (2 talks) (*invited talk*)
- Oct 2006, Granada, IRAM Program Committee meeting
- Nov 2006, Madrid, ‘Science with ALMA: a new era for Astrophysics’ (*invited talk*)
- Dec 2006, Heidelberg, THINGS team meeting (*organizer*)
- Dec 2006, Honolulu, PanSTARRS meeting
- Jan 2007, Bad Honneff, Meeting of the DFG Priority Program
- Feb 2007, Noordwijk, ‘Herschel Open Time Key Projects’
- Feb 2007, Cambridge Colloquium (*invited talk*)
- Apr 2007, Granada, IRAM Program Committee meeting
- May 2007, Charlottesville, NRAO User’s Committee meeting
- May 2007, Hirschhorn, THINGS team meeting (*organizer*)
- Jun 2007, Charlottesville, ‘NRAO 50th Anniversary’ (*invited talk*)
- Jul 2007, Sydney, ‘Galaxies in the Local Universe’ (*invited talk*)
- Aug 2007, Baltimore, PanSTARRS meeting

- Sep 2007, Garching, ‘ALMA Community day/ALMA surveys’
- Sep 2007, Garching, MPA/ESO, ‘Gas Accretion and Star Formation in Galaxies’ (*invited talk*)
- Sep 2007, Würzburg, Annual Meeting of the ‘Astronomische Gesellschaft’ *Splinter meeting organizer*

- Dec 2007, Ringberg, Meeting of the ‘MPIA Galaxy/Cosmology’ group
- Apr 2008, Granada, IRAM Program Committee meeting
- Apr 2008, MPIA, Pan-STARRS Science Council Meeting
- May 2008, Green Bank, USA, NRAO User’s Committee meeting
- May 2008, Charlottesville Colloquium UV/NRAO (*invited talk*)
- Jun 2008, Garching, ‘Gas and Stars in Galaxies – A Multi-Wavelength 3D Perspective’ (*invited talk*)
- Jul 2008, Aspen, ‘Active Galactic Nuclei: Interplay-Supermassive Black Holes, Star Formation & Galaxy Evolution’
- Aug 2008, Bad Honnef, ‘Black Holes and their environment’ (*invited lecturer*)
- Sep 2008, Heidelberg, ‘Cosmic Dust — Near and Far’ (*invited talk*)
- Oct 2008, Madrid, IRAM Program Committee meeting
- Jan 2009, Leuven, JWST MIRI European consortium meeting
- Feb 2009, Obrigheim, MPIA GC staff meeting
- Feb 2009, Edesheim, MPIA strategy meeting
- Mar 2009, Garching, ESO workshop ‘ELTs and ALMA: A deeper, finer view of the universe’ (*contributed talk*)
- Mar 2009, Garching, Discussions on potential new DFG SPP program
- Apr 2009, Granada, IRAM Program Committee meeting
- Apr 2009, Leicester, JWST MIRI European consortium meeting
- May 2009, Socorro, VLA–AOC (lunch talk)
- May 2009, Mt Graham, Visit of the Large Binocular Telescope
- May 2009, Flagstaff, Colloquium at Lowell Observatory
- Jun 2009, Pasadena, AAS meeting
- Aug 2009, Cambridge, MA, Pan-STARRS Science Council meeting
- Sep 2009, Copenhagen, JWST MIRI European consortium meeting
- Sep 2009, Potsdam, Annual Meeting of the German Astronomical Society (*highlight talk*)
- Sep 2009, Grenoble, IRAM 30th anniversary (*invited talk*)
- Oct 2009, Heidelberg, workshop ‘First Star Formation’ (*invited talk*)
- Oct 2009, Bonn, German ALMA community day

- Nov 2009, Ringberg, Workshop on ‘The Gaseous Evolution of Galaxies’ (*organizer*)
- Dec 2009, Obergurgl, Workshop on ‘The Origin of Galaxies’ (talk)
- Jan 2010, Madrid, JWST MIRI European consortium meeting (talk)
- Jan 2010, Castle Neuburg, MPIA Staff Retreat
- Feb 2010, Heidelberg, Herschel KINGFISH Science Team Meeting
- Feb 2010, Heidelberg, HERACLES Team Meeting (*organizer*)
- Mar 2010, Paris, JWST MIRI European consortium meeting (talk)
- Mar 2010, Heidelberg, LITTLE THINGS Team Meeting (*organizer*)
- Apr 2010, Maulbronn, MPIA retreat (talk)
- May 2010, Ringberg, Workshop on ‘Galaxies in the Distant Universe’ (talk)
- May 2010, Rome, Workshop on ‘ALMA Band 5’ talk, (*SOC member*)
- Jul 2010, Ringberg, Herschel KINGFISH Science Team Meeting (talk)
- Jul 2010, Socorro, NRAO PASEO meeting
- Jul 2010, Oxford, ‘Molecules in Galaxies’ (invited talk, *SOC member*)
- Aug 2010, Socorro, Collaboration meeting
- Sep 2010, Aspen Workshop ‘Star Formation in Galaxies: From Recipes to Real Physics’
- Oct 2010, Rome, Colloquium and Special Seminar
- Oct 2010, Ringberg, JWST MIRI European consortium meeting
- Nov 2010, Tucson, ‘Massive Galaxies Over Cosmic Time 3’ (invited talk)
- Nov 2010, Pasadena, Collaboration Meeting
- Nov 2010, Garching, ‘The Impact of Herschel Surveys on ALMA Early Science’ (talk)
- Dec 2010, Bonn, LABOCA collaboration meeting (talk)
- Feb 2011, ALMA ARC meeting Bonn
- May 2011, Pan-STARRS1 collaboration meeting Boston, MA
- Apr 2011, Ringberg, Workshop on Galaxy formation (invited talk)
- Jun 2011, Leiden, Colloquium (invited talk)
- Jun 2011, Ringberg, Star Formation in Galaxies: The Herschel Era (invited talk)
- Jul 2011, Santiago, ESO ALMA meeting (talk, member of SOC)
- Jul 2011, APEX / ALMA site visit
- Sep 2011, Hornberg, MPIA GC staff retreat
- Oct 2011, Cologne, CCAT Meeting (invited talk)
- Oct 2011, Castle Engers, MPIA GC group retreat
- Jan 2012, Pasadena, Collaboration Meeting

- Jan 2012, Pan-STARRS1 collaboration meeting IfA, Hawaii
- Jan 2012, Collaboration visit NRAO

Institutional Functions

- Teaching Assistant, Dept. of Physics & Astronomy, Univ. of New Mexico, 1994–1995
- Astronomer on Duty at Owen’s Valley Radio Observatory (OVRO) 1999–2002
- Member of the CalTech Colloquium Committee (2000–2002)
- Scheduler of OVRO observers (2000–2001)
- Member of the NRAO/ALMA Antenna Evaluation Group (2002–2004)
- Organizer of NRAO Lunch Talk series (2002–2004)
- Organizer of Heidelberg Joint Astronomical Colloquium (2004–2006)
- Member of the ‘Wissenschaftlicher Berater Kreis (WBK)’, MPIA (2004–2010)
- Strategic Time Allocation Committee (STAC), MPIA (2005–2011)

Member of Large Projects/Collaborations

- THINGS, The HI Nearby Galaxy Survey, VLA Large Project PI: Walter
- HERACLES, IRAM 30m CO Survey of Nearby Galaxies, Co-PIs: Walter & Leroy
- LABOCA ESO/MPG Large project to map the ECDFS, ESO Co-PI’s: Smail & Walter
- PanSTARRS–1 Key Project 10: High Redshift QSOs, Co-Leads: Chambers & Walter
- SINGS, Spitzer Infrared Nearby Galaxies Survey, PI: Kennicutt
- LVL, Spitzer Local Volume Legacy, PI: Kennicutt
- LITTLE THINGS, VLA Large Project, PI: Hunter
- VLA–ANGST, VLA Large Project, PI: Ott
- Herschel Guaranteed Time Key Project (GTKP) on high- z QSOs “The Dusty Young Universe”, PI: Meisenheimer
- Herschel GTKP, “Star formation and activity in infrared bright galaxies at $0 < z < 1$ ”, PI: Sturm
- KINGFISH, “Key Insights on Nearby Galaxies: a Far-Infrared Survey with Herschel” Herschel Open Time Key Project (OTKP), PI: Kennicutt
- HerCULES, “Herschel Comprehensive ULIRGs Emission Survey”, Herschel OTKP, PI: van der Werf
- VIDEO Vista Deep Extragalactic Observations, PI: Jarvis
- VHS Vista Hemisphere Survey, PI: McMahon
- Co-I on SPACE proposal to ESA.

Community Service

- Caltech ‘OVRO Time Allocation Committee’ (1999–2002)
- Co-Organizer of Topical Session 52 (‘The Cosmological Impact of Galactic Winds’) during AAS meeting 198 (Pasadena 2001)

- Reviewer: Science, Nature, Astronomy and Astrophysics, Astronomy and Astrophysics Letter, Astrophysical Journal Letters, Astronomical Journal, Astrophysical Journal Supplement Series, Monthly Notices of the Royal Astronomical Society
- Proposal Review, Green Bank Telescope of the NRAO (2004–2007)
- Mar 2006, Organizer, Ringberg Meeting ‘Dwarf Galaxies as Cosmological Probes’
- Sep 2007, Organizer, Splinter Meeting at Astronomische Gesellschaft Meeting Würzburg
- Jun 2008, Member of SOC of ‘3D Conference’, Garching
- IRAM program committee (2005–2009), Chair: 2007
- NRAO Users’ Committee (2007–2010)
- Nov 2009, Organizer, Ringber Meeting ‘The Gaseous Evolution of Galaxies’
- Jul 2010, Member of SOC of ‘Molecules in Galaxies’ Conference, Oxford
- Jul 2010, Member of ‘Panel to Advise on Science and EVLA Operations’ (PASEO), NRAO
- Nov 2010, Member of SOC of ‘High–redshift galaxies in the ALMA era’, Santiago (2011)