

Curriculum vitae of Floris van der Tak (April 2012)

Contact Info

Institute: Netherlands Institute of Space Research (SRON)
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Personal

Surname: Van der Tak
Given names: Floris Frits Sebastiaan
Born: 16 November 1971, Leiden, The Netherlands
Citizenship: Dutch
Family status: Married, two children

Education & Employment

01/2012 – now: Senior Lecturer in Astrophysics, University of Groningen
01/2011 – now: Senior Scientist, SRON Netherlands Institute for Space Research, Groningen
12/2006 – 12-2011: Lecturer in Astrophysics, University of Groningen
02/2006 – 12/2010: Submillimeter Scientist, SRON Netherlands Institute for Space Research, Groningen
10/2000 – 01/2006: Postdoctoral Researcher, Max-Planck-Institut für Radioastronomie, Bonn (D)
03/1996 – 09/2000: Doctoral studies, Leiden University (NL).
PhD thesis title: *The Embedded Phase of Massive Star Formation*
Advisors: prof. dr. E.F. van Dishoeck & prof. dr. N.J. Evans II (Univ. of Texas)
01/1995 – 02/1996: Junior Specialist, Radio Astronomy Laboratory, UC Berkeley (USA)
09/1989 – 12/1994: Master's studies, Astronomy, Leiden University (NL)
09/1983 – 06/1989: Vossius Gymnasium (grammar school), Amsterdam (NL)

Research Interests

Physics of the interstellar medium and the formation of stars
Molecular spectroscopy and radiative transfer
Interstellar chemistry

Publication Record

Articles in peer-reviewed journals: 113 (of which 19 first-authored)
Review papers: 15 (of which 9 single-author invited reviews)
Popular science papers: 6
Other publications: 40
Citations to refereed papers: 2957
Hirsch index: 28

Grants and Awards

2010: NWO 2-yr postdoc (120,000 €)
2009: ERC honorary grant (5,000 €)
2008: NWO 3-yr postdoc (180,000 €)
2008: NOVA PhD student (200,000 €)
2007: SRON PhD student (200,000 €)

Invited presentations to international conferences

10/2012: Invited review, *Molecular Spectroscopy in the Era of Far-IR Astronomy* (Atlanta)
03/2012: Invited talk, H₃⁺ Centennial Meeting (London)
06/2011: Invited review, IAU Symposium *The Molecular Universe* (Toledo)
10/2010: Invited talk, meeting *Molecular Ions in Space* (Kos)
10/2009: Invited talk, meeting *Molecular data for ALMA* (Cologne)
05/2009: Invited talk, meeting *Spectral surveys with Herschel-HIFI* (Toulouse)
12/2007: Invited colloquium, Kavli Institute of Physics (Santa Barbara)
09/2007: Invited review, meeting *Massive Star Formation: Observations confront Theory* (Heidelberg)
12/2006: Invited talk, meeting *Molecular databases for Herschel, ALMA and SOFIA* (Leiden)
01/2006: Invited review, Royal Society discussion meeting on H₃⁺ (London)
10/2005: Invited talk, meeting *Galactic and extragalactic ISM modeling for ALMA* (Onsala)
05/2005: Invited review, IAU Symp. 227, *Massive Star Birth: A Crossroads of Astrophysics* (Catania)
07/2003: Invited review, IAU Symposium 220, *Star Formation at High Angular Resolution* (Sydney)
07/2001: Review talk, Hot Star Workshop III: *The Earliest Stages of Massive Star Birth* (Boulder)

Membership of international review panels

2010–now: Member, ESO OPC (Panel C)
2009–2012: Chair, International Time Allocation Committee, JCMT telescope
2009–2012: Member, JCMT Survey Oversight Committee
2008–2009: Member, Time Allocation Committee, SubMillimeter Array
2008: Member, Scientific Review Panel, SOFIA observatory
2007–2009: Member, Time Allocation Committee, Isaac Newton Group of optical telescopes
2007–2008: Member, Time Allocation Committee, Westerbork Synthesis Radio Telescope
2006–2012: Member, Dutch Time Allocation Committee, James Clerk Maxwell Telescope

Science management experience

2007 – now: Subteam leader of three Key Programs, *Herschel* Space Observatory
2007 – 2009: Molecular data representative, ALMA Regional Center in the Netherlands
2007: Science Coordinator, e-SMA project
2006 – 2007: NL representative, CHAMP+ commissioning & science verification
2006 – now: NL coordinator, JCMT Spectral Legacy Survey
2005 – 2009: Core Users' Group, *Herschel* Space Observatory
2001 – 2007: Leading role in definition of 'key project' for the *Herschel*-HIFI mission
2002 – 2005: Responsible for design and installation of the APEX water vapour radiometer

Teaching experience

2007, 2009, 2010, 2011, 2012: Lecturer, *The Interstellar Medium*, Groningen
2008, 2009: Lecturer, *Managing Space Missions*, Groningen
1997, 1998: Assistant, *Radiative Processes in Astrophysics*, Leiden
1996: Assistant, *Origins of Planetary Systems*, Leiden

Students and postdocs supervised

2012–2014: Woojin Kwon (postdoc, Groningen)
2011–2012: Ke Wang (postdoc, Groningen)
2011–2013: Maja Kazmierczak (postdoc, Groningen)
2011–2015: Evgenia Koumpia (Ph.D., Groningen)
2011–2015: Irene San Jose Garcia (Ph.D., Leiden) [with E.F. van Dishoeck]
2010–2012: Annemieke Janssen (M.Sc., Groningen)
2010–2014: Yunhee Choi (Ph.D., Groningen)
2009–2013: Zsófia Nagy (Ph.D., Groningen)
2009–2013: Kuo-Song Wang (Ph.D., Leiden) [with M.R. Hogerheijde]
2008–2010: Matthieu Marseille (postdoc, Groningen)
2008–2011: Wilfred Frieswijk (postdoc, Groningen)
2008: David Shelton (B.Sc., Hertfordshire)
2008: Sandra de Jong (B.Sc., Groningen)
2007–2011: Kalle Torstensson (Ph.D., Leiden) [with H.J. van Langevelde]

2007–2011: Matthijs van der Wiel (Ph.D., Groningen)

2007: Ytsen Haringa (B.Sc., Groningen)

Organization of scientific meetings

2011: Scientific organization, Dutch Astronomers' Conference

2010 – 2012: Scientific and local organization, SRON Science Forum

2009: Scientific organization, Millimetron workshop (Utrecht)

2008: Scientific and local organization, JCMT-SLS consortium meeting (Groningen)

2006: Scientific organization, workshop *Science with CHAMP+* (Bonn)

2004: Scientific organization, workshop *Radiative Transfer of Interstellar Water* (Leiden)

2001 – 2004: Organization of bi-weekly MPIfR submillimeter group seminar

1999: Local organization, workshop *Radiative Transfer in Molecular Lines* (Leiden)

1998: Local organization, Sackler Visiting Professorship by Prof. C.H. Townes to Leiden

1996 – 1998: Organization of lunch talks, Sterrewacht Leiden

1996: Local organization, IAU Symposium 178, *Molecules in Astrophysics: Probes and Processes*

National and local committees

2011 – now: Colloquium organizer, Kapteyn Institute

2011: Member, Selection Committee, SRON-LEA section head

2009 – 2011: Member, Selection Committee, SRON (senior) scientist position

2009 – now: Chair, SRON Graduate Student Review Committee

2007 – now: Member, SRON Science Committee

1997 – 2000: Member, Computer Advisory Committee, Sterrewacht Leiden

Memberships

International Astronomical Union, Division VI (Interstellar Matter)

Dutch Astronomers' Club

Public outreach activities

Fall 2010: Public lectures *First results from the Herschel telescope*

July 2010: Newspaper article *The Herschel Harvest*

May 2010: Radio broadcast *HIFI: a stunning new molecule hunter*

March 2010: TV broadcast *HIFI discovers organic molecules in Orion*

Fall 2008: Educational movie *Beyond the Red: Science with the Herschel telescope* (director M. Roos)

Spring 2008: Animation movie *How the HIFI instrument works* (director P. Prijs)

November 2007: Press release *Acid water in colliding galaxies*

May 2003: Press release *Interstellar triply deuterated ammonia*

July 2000: Press release *Alcohol helps astronomers to date stars*

Other education and training

Spring 2009: Teaching Lectures at University Level

Fall 2008: Project Management

Spring 2008: Supervising Graduate Students

Languages

Mother tongue Dutch, fluent English and German, reasonable French

Other interests

Classical music performance (cello), in symphonic, opera, baroque, and chamber music groups