

Curriculum vitae of Floris van der Tak (June 2018)

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

07/2013 – now: Professor in Submillimeter Astronomy, University of Groningen
01/2012 – 06/2013: Senior Lecturer in Astrophysics, University of Groningen
01/2011 – now: Senior Scientist, SRON Netherlands Institute for Space Research
12/2006 – 12-2011: Lecturer in Astrophysics, University of Groningen
02/2006 – 12/2010: Submillimeter Scientist, SRON Netherlands Institute for Space Research
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)

Research Interests

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

Publication Record

Articles in peer-reviewed journals: 189 (of which 25 first-authored)
Review papers: 16 (of which 10 single-author invited reviews)
Popular science papers: 6
Books edited: 1
Citations to refereed papers: 8002
Hirsch index: 47

Grants and Awards

2017: Co-I on 2 CSC grants for PhD studentships (2×100,000 €) [PI: Gao]
2017: PI, Grants for astrobiology conference (total 25,000 €)
2016: PI, joint RuG/SRON PhD studentship (100,000 €)
2016: Co-I, NWO grant for LLAMA telescope (495,000 €) [PI: Boland]
2015: PI, NOVA & LKBF funding for Blaauw professor (2000 €)
2015: PI, NWO visitor grant (3325 €)
2012: PI, NOVA PhD student (200,000 €)
2010: Co-I, NWO 2-yr postdoc (120,000 €) [PI: Waters]
2009: PI, ERC honorary grant (5,000 €)
2008: PI, NWO 3-yr postdoc (180,000 €)
2008: PI, NOVA PhD student (200,000 €)
2007: PI, SRON PhD student (200,000 €)

Selected presentations to international conferences

- 07/2018:** Invited talk, conference *Astrochemistry: past, present and future* (Pasadena)
09/2017: Invited talk, NWO-FAPESP workshop *Science with the LLAMA telescope* (São Paulo)
09/2016: Invited talk, conference *The Milky Way as a star formation engine* (Rome)
04/2016: Invited talk, conference *From star and planet formation to life* (Vilnius)
04/2016: Plenary talk, *Water from clouds to oceans* (Noordwijk)
09/2015: Invited review, Annual Meeting of the *Astronomische Gesellschaft* (Kiel)
08/2015: Invited review, IAU Focus Meeting *Water and life's building blocks in the universe* (Honolulu)
10/2013: Plenary talk, *The Universe explored by Herschel* (Noordwijk)
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)

Membership of international review panels

- 2018:** Reviewer, ERC Advanced Grant proposals
2016: Grant proposal reviewer, Czech Science Foundation
2015: Member, German SOFIA TAC
2015: Reviewer, ERC Consolidator Grant proposals
2012–2013: Co-Chair, ESO OPC (Panel C)
2015: Reviewer, ANR proposals (France)
2010–2011: 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
2006–2013: Member, Dutch Time Allocation Committee, James Clerk Maxwell Telescope

Science management experience

- 2013 – now:** Member, GUSTO science team
2014 – now: Coordinator, Spica/Safari working group on Nearby Galaxies
2013 – now: Member, STO-2 science team
2007 – 2015: Subteam leader of WISH, CHESS, and HEXOS 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 – 2013: NL coordinator, JCMT Spectral Legacy Survey

Teaching experience

- 2015–2017:** Lecturer, *Astrophysical Space Missions*, Groningen
2014–2017: Lecturer, *Star and Planet Formation*, Groningen
2013–2018: Lecturer, *Astrochemistry*, Groningen
2008–2009: Lecturer, *Innovation Management*, Groningen
2007–2012: Lecturer, *The Interstellar Medium*, Groningen

Students and postdocs supervised

2018–2019: Akke Corporaal (M.Sc., Groningen) [with M. Min]
2018–2022: Andres Felipe (Ph.D., Groningen) [with L. Wang & S. Trager]
2017–2018: Nick Oberg (M.Sc., Groningen)
2018–2022: José Silva (Ph.D., Groningen) [with J.R. Gao]
2017–2018: Hylke Hoogland (M.Sc., Groningen)
2017–2021: Yuner Gan (Ph.D., Groningen) [with J.R. Gao]
2017–2021: Qian Wang (Ph.D., Groningen) [with J.R. Gao]
2017: Marrick Braam (B.Sc., Groningen)
2017: Miguel Rodin (B.Sc., Groningen)
2016–2020: Ümit Kavak (Ph.D., Groningen) [with A. Tielens]
2016–2017: Marlies van de Weijgaert (M.Sc., Groningen) [with M. Müller]
2015–2019: William Pearson (Ph.D., Groningen) [with L. Wang]
2015–2016: Vedad Hodzic (B.Sc., Madrid) [with D. Teyssier]
2014–2018: Kateryna Frantseva (Ph.D., Groningen) [with M. Müller]
2014–2018: Veronica Allen (Ph.D., Groningen)
2013–2014: Leonardo Santos (B.Sc., Groningen)
2013–2015: Bertrand Delforge (Ph.D., Groningen) [with M. Verheijen & J. Pearson]
2012–2015: Woojin Kwon (postdoc, Groningen)
2011–2012: Ke Wang (postdoc, Groningen)
2011–2014: Maja Kazmierczak (postdoc, Groningen)
2011–2015: Evgenia Koumpia (Ph.D., Groningen)
2011–2015: Irene San José García (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)
2008–2009: David Shelton (B.Sc., Hertfordshire)
2007–2008: 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)
2006–2007: Ytsen Haringa (B.Sc., Groningen)

Organization of international scientific meetings

2019: Chair, SOC, SPICA science conference (Crete)
2018: Chair, SOC, Dutch Astronomers' Conference (Groningen)
2017: Member, SOC, NWO-FAPESP workshop *Science with the LLAMA telescope* (Sao Paulo)
2017: Chair, SOC, KNAW symposium *Fundamentals of Life in the Universe* (Groningen)
2015: Chair, SOC, IAU symposium *From molecular clouds to star-forming galaxies* (Honolulu)
2014: Scientific organization, workshop *Galactic SKA science* (Leiden)
2013: Scientific organization, workshop *Massive star formation with ALMA* (Leiden)
2012: Scientific organization, workshop *The C⁺ ion as an astronomical tool* (Leiden)
2011: Scientific organization, Dutch Astronomers' Conference (Texel)

National and local committees

2018: Chair, Board of Examiners, Kapteyn Astronomical Institute
2016–2018: Meeting organizer, Groninger Origins consortium
2016–2017: Member, Board of Examiners, Kapteyn Astronomical Institute
2015: Chair, NWO-Rubicon funding committee
2014 – now: Member, SRON Program Committee
2011: Member, Selection Committee, Kapteyn faculty position
2011: Member, Selection Committee, SRON scientist position
2011 – 2015: Colloquium organizer, Kapteyn Institute
2011: Member, Selection Committee, SRON-LEA section head
2009 – 2011: Member, Selection Committee, SRON (senior) scientist position
2009 – 2014: Chair, SRON Graduate Student Review Committee
2007 – 2014: Member, SRON Science Committee

Memberships

International Astronomical Union, Division VI (Interstellar Matter)
Dutch Astronomers' Club

Public outreach activities

04/2018: National newspaper interview about launch of TESS mission
01/2018: Blog about prospects for life around TRAPPIST-1
02/2017: Press release about disks around massive young stars with ALMA
12/2016: Press release about first results from STO-2 balloon mission
11/2015: Press release about upcoming launch of STO-2 balloon mission
03/2015: Newspaper interview on the 25th birthday of HST
11/2014: Public talk at CBS Aquamarijn (elementary school) about the Rosetta landing
01/2014: Interview on national radio about HIFI detection of water on Ceres
07/2012: Interview on national radio about the apparent size of the Moon
12/2011: Article in Nederlands Tijdschrift voor Natuurkunde
05/2010: Interview on national radio about First results from HIFI
03/2010: Interview on local TV about First results from HIFI
2010-2012: Public lectures *First results from the Herschel telescope* throughout the Netherlands
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*

Other education and training

Spring 2015: Leading a Research Group
Spring 2014: Grant Proposal Writing
Fall 2012: Academic Leadership
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, bits of Spanish & Italian

Other interests

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