

Curriculum vitae of Floris van der Tak (October 2020)

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: 216 (of which 26 first-authored)
Review papers: 16 (of which 10 single-author invited reviews)
Popular science papers: 6
Books edited: 1
Citations to refereed papers: 10,046
Hirsch index: 52

Supervision Record

B.Sc. students supervised: 8
M.Sc. students supervised: 10
Ph.D. students supervised: 18
Postdocs supervised: 8

Grants and Awards

2020: co-I, NWO grant for PepSci research network (1,600,000 €) [PIs: W. Westreenen & C. Keller]
2019: co-I, Origins Center grant for flux collector telescope (5,000 €) [PI: I. Snellen]
2019: PI, COFUND grant (1,600,000 € EU; 5,700,000 € total) [with W. Roos]
2019: PI, Grants for SPICA conference (total 18,000 €)
2018: Co-I, Startimpuls grant to Origins Center (2,500,000 €) [PI: B. Feringa]
2018: Co-I, Dutch Astrochemistry Network [PI: E.F. van Dishoeck]

2017: Co-I on 2 CSC grants for PhD studentships (2×100,000 €) [PI: J.R. Gao]
2017: PI, Grants for astrobology conference (total 25,000 €)
2016: PI, joint RuG/SRON PhD studentship (100,000 €)
2016: Co-I, NWO grant for LLAMA telescope (495,000 €) [PI: W. 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: R. 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

09/2020: Invited talk, conference *Conditions and impact of star formation* (Puerto Varas)
06/2019: Invited talk, conference *Astrochemistry: from nanometers to megaparsecs* (Göteborg)
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, ESA symposium *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)

Membership of international review panels

2020: Reviewer, ERC Consolidator Grant proposals
2019–2020: Topical Team member, ESA Voyage 2050 program
2019: Grant proposal reviewer, Polish Science Foundation
2019: Chair, German SOFIA Cycle 8 TAC
2018: Reviewer, ERC Advanced Grant proposals
2016: Grant proposal reviewer, Czech Science Foundation
2015: Member, German SOFIA Cycle 4 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

2019 – 2020: Project Scientist, SPICA/SAFARI instrument
2019 – 2024: PI, MT member, and WP1 leader, COFUND project oLife
2017 – 2018: Scientific coordinator, SPICA/SAFARI project
2018 – now: Member, ELT/METIS science team
2015 – now: Member, GUSTO science team
2014 – 2016: 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

Teaching experience

2018–2019: Lecturer, *Planetary Science*, Groningen
2015–2018: Lecturer, *Astrophysical Space Missions*, Groningen
2014–2019: Lecturer, *Star and Planet Formation*, Groningen
2013–2020: Lecturer, *Astrochemistry*, Groningen
2008–2009: Lecturer, *Innovation Management*, Groningen
2007–2012: Lecturer, *The Interstellar Medium*, Groningen

Organization of international scientific meetings

2021: Chair, SOC, Origins Center conference (Bergen aan Zee)
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

2018–2020: Chair, Board of Examiners, Kapteyn Astronomical Institute
2018–2020: Member, Blaauw Prize Committee, Kapteyn Astronomical Institute
2016–2019: Meeting organizer, Groninger Origins consortium
2017: Member, Review committee of NOVA submm instrumentation group
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)
European Astronomical Society
Dutch Astronomers' Club
European Astrobiology Network

Other education and training

Fall 2019: Academic Integrity
Spring 2018: Communicating Science to the Press
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
General aviation (VFR)

Students and postdocs supervised

B.Sc. students

2020: Dewy Peters (B.Sc., Groningen)
2017: Marrick Braam (B.Sc., Groningen)
2017: Miguel Rodin (B.Sc., Groningen)
2015–2016: Vedad Hodzic (B.Sc., Madrid) [with D. Teyssier]
2013–2014: Leonardo Santos (B.Sc., Groningen)
2008–2009: David Shelton (B.Sc., Hertfordshire)
2007–2008: Sandra de Jong (B.Sc., Groningen)
2006–2007: Ytsen Haringa (B.Sc., Groningen)

M.Sc. students

2020–2021: Mark van der Keijl (M.Sc., Groningen)
2019–2020: Mark Oosterloo (M.Sc., Groningen) [with I. Kamp]
2019–2020: Jim Morrison (M.Sc., Groningen)
2019–2020: Marrick Braam (M.Sc., Groningen)
2018–2019: Jesper Tjoa (M.Sc., Groningen) [with M. Müller]
2018–2019: Akke Corporaal (M.Sc., Groningen) [with M. Min]
2017–2018: Nick Oberg (M.Sc., Groningen)
2017–2018: Hylke Hoogland (M.Sc., Groningen)
2016–2017: Marlies van de Weijgaert (M.Sc., Groningen) [with M. Müller]
2010–2012: Annemieke Janssen (M.Sc., Groningen)

Ph.D. students

2020–2024: Alexandra Zetterlind (Ph.D., Utrecht) [with I.L. ten Kate]
2019–2020: Daniele Ronsó (Ph.D., Sao Paulo) [with J. Lepine & A. Baryshev]
2018–2022: Andres Ramos (Ph.D., Groningen) [with L. Wang & S. Trager]
2018–2022: José Silva (Ph.D., Groningen) [with J.R. Gao]
2017–2021: Yuner Gan (Ph.D., Groningen) [with J.R. Gao]
2017–2021: Qian Wang (Ph.D., Groningen) [with J.R. Gao]
2016–2020: Ümit Kavak (Ph.D., Groningen) [with A. Tielens]
2015–2019: William Pearson (Ph.D., Groningen) [with L. Wang]
2014–2018: Kateryna Frantseva (Ph.D., Groningen) [with M. Müller]
2014–2018: Veronica Allen (Ph.D., Groningen)
2013–2015: Bertrand Delforge (Ph.D., Groningen) [with M. Verheijen & J. Pearson]
2011–2015: Evgenia Koumpia (Ph.D., Groningen)
2011–2015: Irene San José García (Ph.D., Leiden) [with E.F. van Dishoeck]
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]
2007–2011: Kalle Torstensson (Ph.D., Leiden) [with H.J. van Langevelde]
2007–2011: Matthijs van der Wiel (Ph.D., Groningen)

Postdocs

2020–2022: Vera Dobos (postdoc, Groningen) [with I. Kamp]
2020–2022: Adi Chopra (postdoc, Groningen) [with F. Weissing]
2017–2019: Tobias Beuchert (postdoc, Amsterdam) [with S. Markoff & M. Hogerheijde]
2012–2015: Woojin Kwon (postdoc, Groningen)
2011–2012: Ke Wang (postdoc, Groningen)
2011–2014: Maja Kazmierczak (postdoc, Groningen)
2008–2010: Matthieu Marseille (postdoc, Groningen)
2008–2011: Wilfred Frieswijk (postdoc, Groningen)