

Curriculum vitae and publication list

Curriculum vitae

Name:

VAN DER KRUIT, Pieter Corijnus

Birth:

September 18, 1944 – Schiedam, the Netherlands

Nationality:

Netherlands

Paternal genealogy:

Son of Krijn van der Kruit (1912–1997) and Hermina van den Tol (1913–2002)

Son of Pieter van der Kruit (1887–1957) and Aagje van der Sloot (1888–1977)

Son of Krijn van der Kruit (1861–1927) and Willemine van Loenen (1859–?)

Son of Pieter van der Kruit (1816–1880) and Marie van der Horst (1820–1888)

Son of Kaatje van der Kruit (?–?)

Family Status:

Married to Cornelia Arends on March 21, 2003.

Three children from a previous marriage, born in 1976 (Vera), 1978 (Sylvia) and 1980 (Maurits).

One granddaughter Loes Sylvia Slink (September 18(!), 2008).

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Academic degrees:

- Candidaat (Bachelors), Leiden University (Majors: astronomy and physics; minor: mathematics) – May 1966
- Doctorandus (Masters), Leiden University (Major: astronomy; minor: physics) – November 1968
- Ph.D., Leiden University (“*Evidence for Past Activity in the Galactic Nucleus*”; Supervisor: Prof. Dr. J.H. Oort) – October 1971

Academic Positions:

- Mar 1968 - Dec 1968 : Student assistant, Sterrewacht, Leiden University
- Jan 1969 - Sep 1970 : Doctoraal assistent, Sterrewacht, Leiden University
- Oct 1970 - Sep 1972 : Wetenschappelijk medewerker (Scientific assistant), Sterrewacht, Leiden University
- Oct 1972 - Dec 1974 : Postdoctoral fellow of the Carnegie Institution of Washington at the Mount Wilson and Palomar Observatories, Pasadena, California, U.S.A.
- Jan 1975 - Mar 1979 : Wetenschappelijk medewerker eerste klasse (assistent professor), Kapteyn Astronomical Institute, University of Groningen (tenure appointment per 1 Mar 1977)
- Apr 1979 - Nov 1985 : Wetenschappelijk hoofdmedewerker (associate professor), Kapteyn Astronomical Institute, University of Groningen
- Sep 1982 - Aug 1983 : Visiting fellow of the Australian National University at the Mount Stromlo and Siding Spring Observatories, Canberra, Australia
- Dec 1985 - May 1987 : Universitair hoofddocent (associate professor), Kapteyn Astronomical Institute, University of Groningen
- Jun 1987 - Dec 1993 : Hoogleraar A in de sterrenkunde (full professor of astronomy - grade A), Kapteyn Astronomical Institute, University of Groningen
- Jun 1987 - Aug 1987 : Visiting scientist, Institute of Astronomy, Cambridge, U.K.
- May 1991 - Jul 1991 : Visiting scientist, Space Telescope Science Institute, Baltimore, Maryland, U.S.A.
- Jan 1994 - Dec 2003 : Hoogleraar B in de sterrenkunde (full professor of astronomy - grade B), Kapteyn Astronomical Institute, University of Groningen
- Dec 2003 - Sep 2009 : Jacobus C. Kapteyn Hoogleraar in de Sterrenkunde (Jacobus C. Kapteyn Distinguished Professor of Astronomy), Kapteyn Astronomical Institute, University of Groningen
- Jan 07 - Mar 07: Visiting Scientist at the European Southern Observatory, Vitacura, Santiago, Chile
- Oct 2009 - *present* : Jacobus C. Kapteyn Hoogleraar Honorair in de Sterrenkunde (Jacobus C. Kapteyn Honorary Professor of Astronomy), Kapteyn Astronomical Institute, University of Groningen

Honors, memberships, etc.:

a. Honors

1973: Dr. Knut Lundmark Award, Carnegie Institution of Washington.

1982-1985: Vice-president, Commission 28 “Galaxies”, I.A.U.

1985-1988: President, Commission 28 “Galaxies”, I.A.U.

1994: First Whitford Colloquium (*Surface Photometry of Spiral Galaxies*), University of Wisconsin, Madison, Wisconsin, U.S.A.

2001: Asteroid 10437 (6085P-L) named “van der Kruit” by the International Astronomical Union.

2003: Appointment as Jacobus C. Kapteyn distinguished Professor of Astronomy; University of Groningen.

2006: Royal Decoration as Knight in the Order of the Dutch Lion (Ridder in de Orde van de Nederlandse Leeuw).

b. Scientific

General

- 1968-*present*: Member Nederlandse Astronomen Club (professional society for astronomers in The Netherlands and Belgium).
- 1973-*present*: Member, International Astronomical Union (I.A.U.).
- 1979-1982: Member, Organising Committee, Commission 28 “Galaxies”, I.A.U.
- 1982-1985: Vice-president, Commission 28 “Galaxies”, I.A.U.
- 1985-1988: President, Commission 28 “Galaxies”, I.A.U.
- 1988-1991: Member, Organising Committee, Commission 28 “Galaxies”, I.A.U.
- 1984: External examiner of the Ph.D. Thesis “*A Study of the Kinematics and Nuclear Structure of the Barred Spiral Galaxies NGC1365 and NGC1512 and of the Nuclear Jet in NGC3309*” by Steven Jörsäter, Stockholm University, Sweden.
- 1986: External Examiner of the Ph.D. Thesis “*Kinematics and Chemical Properties of the Old Disk*” by James R. Lewis, Australian National University, Canberra, Australia.
- 1986: External Examiner of the Ph.D. Thesis “*An Infrared and Optical Study of Edge-on Galaxies*” by Richard J. Wainscoat, Australian National University, Canberra, Australia.
- 2001: External Examiner of the Ph.D. Thesis “*Properties of Galaxies found in a Deep Blind Neutral Hydrogen Survey*” by Robert F. Minchin, University of Wales, Cardiff, U.K..

Advisory and evaluation panels

- 1984: Member, Working Group on Key-projects for Hubble Space Telescope, panel Galaxies and Clusters.
- 1985-1993: Member, Science Advisory Board, Space Research Organisation Netherlands (SRON).
- 1986-1989: Chairman, User’s Committee, Space Telescope European Coordinating Facility.
- 1988-1991: Chairman, La Palma Users Committee.
- 1988-1991: Member, Astronomy Working Group, European Space Agency (ESA).
- 1988-1992: Member, Space Telescope Advisory Team, ESA.
- 1992: Delegate for the Netherlands, Astronomy Expert Meeting, Megascience Forum, Organisation for Economic Development and Cooperation (OECD).
- 1993-1994: Member CODEST Physics Panel, Human Capital and Mobility program, European Commission (EC).
- 1994: Member, Study Panel on Astronomy and Astrophysics (EC).
- 1995-1998: Member, Access to Large Scale Facilities Evaluation Panel, Training and Mobility of Researchers program (EC).
- 1999: Ad hoc member, Advisory Board for the Joint Infrastructure Fund, Particle Physics and Astronomy Research Council, UK.
- 2000: Member, Physics Evaluation Panel for the Marie Curie Fellowships, Human Potential Programme, (EC).
- 2001: Member, Evaluation Panel for Enhancing Access to Research Infrastructures (EC).
- 2008: Member of the selection panel for the Hubble Fellowship (Space Telescope Science Institute, Baltimore).

- 2008-*present*: Member, Advanced Grants Review Panel for Universe Sciences of the European Research Council (ERC).
- 2011-2012 Member, Jury of the Laboratoires d'Excellence initiative of the Agence Nationale de la Recherche (ANR)
- 2012: Member, Hubble Fellowship Selection Committee (STScI)

Time assigning committees

- 1980-1995: Member (1986-1987 chairman), Program Committee Westerbork Synthesis Radio Telescope (WSRT).
- 1983-1988: Member, Observing Programmes Committee, European Southern Observatory (ESO).
- 1989: Member, Hubble Space Telescope Time Allocation Committee for cycle 1, co-chairman of panel Galaxies and Clusters.
- 1991: Member, Reconvening Hubble Space Telescope Time Allocation Committee for cycle 1.
- 1991: Member, Hubble Space Telescope Time Allocation Committee for cycle 2 and chairman of panel Galaxies and Clusters.
- 1993: Member at large, Hubble Space Telescope Time Allocating Committee for cycle 4.
- 2004: Member, Hubble Space Telescope Time Assigning Committee for cycle 13 and chairman of the panel "Extragalactic II".
- 2005: Member, Hubble Space Telescope Time Assigning Committee for cycle 14 and chairman of the panel "Extragalactic III".
- 2006: Member-at-large, Hubble Space Telescope Time Assigning Committee for cycle 15.
- 2007: Member, Hubble Space Telescope Time Assigning Committee for cycle 16 and chairman of the panel "Extragalactic II".
- 2008: Member of the Cycle 16 Supplementary Proposal Review for Hubble Space Telescope.

Conference scientific organising Committees

- 1979: Member, Scientific Organising Committee, "Kinematics and Dynamics of Galaxies", Austin, Texas, U.S.A.
- 1984: Member, Scientific Organising Committee, "New Aspects of Galaxy Morphology", Toulouse, France.
- 1988: Member, Scientific Organising Committee, "The World of Galaxies", Paris, France.
- 1989: Member, Scientific Organising Committee, "The Galactic and Extragalactic Background Radiation" (IAU Symp. **139**), Heidelberg, Germany.
- 1990: Member, Scientific Organising Committee, "Morphological and Physical Classification of Galaxies", Sant'Agata, Italy.
- 1994: Co-chairman, Scientific Organising Committee, "Stellar Populations" (IAU Symposium **164**), The Hague, the Netherlands.
- 1999: Co-chairman, Scientific Organising Committee, "The Legacy of Jacobus Cornelius Kapteyn", Groningen, the Netherlands.
- 2000: Member, Scientific Organising Committee, "Galaxy Disks and Disk Galaxies", Rome/Vatican, Italy.

- 2001: Chairman of the Scientific Organising Committee, “Evolution from Large to Small”, international conference at the occasion of the 200-th anniversary of the Koninklijk Natuurkundig Genootschap (Royal Natural Sciences Society) te Groningen.
- 2001: Member, Scientific Organising Committee, ESO-CERN-ESA Symposium: “Astronomy, Cosmology and Fundamental Physics”, Garching bei München, Germany.
- 2005: Member, Scientific and Local Organising Committee, “Island Universes: Structure and evolution of disk galaxies”, Terschelling.
- 2006-2007: Member of the Scientific Organising Committee, Formation and evolution of galaxy disks, Rome/Vatican.
- 2008-2010: Member of the Scientific Organising Committee, “Conference in honour of Ken Freeman”, Sossusvlei Lodge, Namibia.

Journals

- 1990-1994: Member, Editorial Board, *Astrophysics Letters & Communications*.
- 2000-2003: Member Editorial Board, “De Academische Boekengids” (Amsterdam University Press).

c. Administrative

Groningen

- 1981-1982: Member of the Board, Faculty of Mathematics and Natural Sciences, University of Groningen.
- 1991-1994: Chairman, Department of Astronomy, University of Groningen (equivalent to director of the Kapteyn Institute).
- 1994-1997: Dean, Faculty of Mathematics and Natural Sciences, University of Groningen (encompasses education and research in mathematics, computer science, physics, astronomy, chemistry, environmental science, biology and pharmacy).
- 1998-2005: Director, Kapteyn Astronomical Institute, University of Groningen.
- 1997-1998: Member of the Board, Koninklijk Natuurkundig Genootschap (Royal Physical Sciences Society, KNG), Groningen.
- 1998-*present*: Chairman of the Board, Koninklijk Natuurkundig Genootschap (KNG).
- 1997-2004: Member of the Board and treasurer, Stichting Groninger Universiteits Fonds (Foundation Groningen University Fund, GUF).
- 2004-*present*: Chairman of the Board, Stichting Groninger Universiteits Fonds (GUF).
- 1998-2001: Member of the Board, Stichting Expo-Noord (organised the exposition “Magiorama”, Martinihal, Groningen, in 2000 to enhance public interest in science and technology).
- 1998-2008: Member, Ubbo Emmius Collegie.
- 2004-2011: Chairman of the Board, Studiefonds J.C. Kapteyn (Jacobus C. Kapteyn Fund).
- 2004-2011: Chairman of the Board, Foundation Pastoor Schmeits Prijs (prize for young, excellent Dutch astronomers).
- 2006-2009: Member of the Board and treasurer, Foundation WeTeX (supports scientific and technical expositions; now part of the GUF).

National

- 1987-1995: Chairman of the Board, Netherlands Foundation for Research in Astronomy (Stichting Astronomisch Onderzoek in Nederland; ASTRON/NFRA), formerly Netherlands Foundation for Radioastronomy (Stichting Radiostraling van Zon en Melkweg) (funded graduate students at universities, operates the Westerbork Synthesis Radio Telescope, was responsible for the Netherlands share in the UK/NL Isaac Newton Group of (optical) Telescopes, La Palma, Canary Islands, and UK/CAN/NL James Clerk Maxwell (millimeter) Telescope at Mauna Kea, Hawaii, U.S.A.).
- 1986-1992: Chairman, Netherlands Steering Group for UK/NL Collaboration.
- 1987-1991: Member, Netherlands Committee for Astronomy (NCA).
- 1991-1994: Member and vice-chairman, Netherlands Committee for Astronomy (NCA).
- 1998-2003: Member and vice-chairman, Netherlands Committee for Astronomy (NCA).
- 2003-2007: Chairman, Netherlands Committee for Astronomy (NCA).
- 2007-*present*: Member, Netherlands Committee for Astronomy (NCA).
- 1994-1997: Member and vice-chairman, Committee for Natural and (Fundamental) Technical Sciences (DNT), Association of Universities in the Netherlands (VSNU).
- 1991-1994: Member of the Board, Netherlands Research School for Astronomy (NOVA).
- 1998-2003: Member and vice-chairman of the Board, Netherlands Research School for Astronomy (NOVA).
- 2003-2007: Chairman of the Board, Netherlands Research School for Astronomy (NOVA).

- 1996-1997: Chairman, National Committee “Vijfde Jaar Beta Studies” (Five Years Study for Natural Sciences Studies).
- 1998-2003: Member, Area Board for the Exact Sciences, Netherlands Organisation for Scientific Research (NWO), encompassing mathematics, computer science, physics and astronomy.
- 2007-2010: Member, Area Board for the Exact Sciences, encompassing mathematics, computer science and astronomy (NWO).
- 2010-*present*: Vice-chairman, Area Board for the Exact Sciences (NWO).
- 2000-2011: Member, Board of Directors, Leids Sterrewacht Fonds.
- 2000-2011: Member, Board of Directors, Jan Hendrik Oort Fonds.
- 2000-2004: Member, Board of Directors, Leids Kerkhoven-Bosscha Fonds.
- 2004-2011: Chairman, Board of Directors, Leids Kerkhoven-Bosscha Fonds.
- 2000-2003: Chairman, ESO Contact Commissie (KNAW).
- 2003-2006: Member, ESO Contact Commissie (KNAW).
- 2006-2007: Chairman, ESO Contact Commissie (KNAW).

International

- 1986-1990: Member, Isaac Newton Group Programme and Coordinating Committee.
- 1986-1988: Member and vice-chairman, SERC/ZWO (later PPARC/NWO) Joint Steering Committee (“Board” for the UK/NL Isaac Newton Group of Telescopes at the Observatorio del Roque de los Muchachos, La Palma, Canary Islands, Spain).
- 1988-1991: Chairman, SERC/NWO Joint Steering Committee.
- 1991-1997: Member and vice-chairman, PPARC/NWO Joint Steering Committee.
- 1988-1994: Observer, International Scientific Committee (CCI) for collaboration in astronomy at the Canary Islands.
- 2000-2003: Observer, International Scientific Committee (CCI).
- 1995-2001: Member, Institute Visiting Committee, Space Telescope Science Institute (STScI), Baltimore, U.S.A.
- 2002: Member, Time Allocation Review Committee, STScI.
- 1996: Member, Access to Large Scale Facilities Audit Panel, Human Capital and Mobility program, European Commission (EC).
- 1997: Chairman, Visiting Committee, Faculty of Mathematics and Natural Sciences, Göteborg University, Sweden.
- 1998: Member, Access to Large Scale Facilities Audit Panel, Training and Mobility of Researchers program (EC).
- 2000: Member, Preparatory Panel on Programme Management and Coordination, Conference on “Research Infrastructures”, Strassbourg, France (EC).
- 2000: Consultant, Evaluation of Funding for UK Civil Space Activity (Technopolis Group, London).
- 2000: Member of Council, European Southern Observatory (ESO).
- 2001/02: Vice-president of Council, ESO.
- 2003/04/05: President of Council, ESO.
- 2006-2007: Member of Council, ESO.
- 2001: Co-chairman, ESO/PPARC joint In-Kind Working Group for the possible assession of the UK to ESO.
- 2003-2004: Chair of the ESO/Finland Negotiating Team for the possible assession of Finland to ESO.
- 2004-2005: Chair of the ESO/Spain Negotiating Team for the possible assession of Spain to ESO.
- 2003/04: Chairman of the Board, Atacama Large Millimeter Array (ALMA).

- 2005: Vice-chairman of the Board, ALMA.
2003/04: Member, European ALMA Board.
2005: Chairman, European ALMA Board.
2002-2005: Co-chair, Search committee for the Key Personnel in the Joint ALMA Office.
2003-2005: Co-chair, ALMA/Japan Negotiating Team.
2006-2011: Chairman, E-ELT (European Extremely Large Telescope) Prep Steering Committee, ESO.
2009: Chairman of the Mid-term Review Committee of the ESO E-ELT Phase B Design Study.

List of publications

Research Papers

Note: Papers in refereed journals are numbered in **bold**; * indicates an invited review.

1. P.C. van der Kruit: *Evidence for a possible expulsion of gas from the Galactic nucleus*, *Astron. Astrophys.* **4**, 462-481 (1970)
2. D.S. Mathewson, P.C. van der Kruit and W.N. Brouw: *A high-resolution radio continuum survey of M51 and NGC5195 at 1415 MHz*, *B.A.A.S.* **3**, 369.
3. P.C. van der Kruit: *Attempt to explain the motions of the gas in the central region of the Galaxy by explosive events in its nucleus*, *Astron. Astrophys.* **13**, 405-425 (1971)
4. P.C. van der Kruit: *Observations of core sources in Seyfert and normal galaxies with the Westerbork Synthesis Radio Telescope at 1415 MHz*, *Astron. Astrophys.* **15**, 110-122 (1972)
5. D.S. Mathewson, P.C. van der Kruit and W.N. Brouw: *A high-resolution radio continuum survey of M51 and NGC5195 at 1415 MHz*, *Astron. Astrophys.* **17**, 468-486 (1972)
6. P.C. van der Kruit, J.H. Oort and D.S. Mathewson: *The radio emission of NGC4258 and the possible origin of spiral structure*, *Astron. Astrophys.* **21**, 169-184 (1972) [Erratum: *Astron. Astrophys.* **22**, 479]
7. G.K. Miley, G.C. Perola, P.C. van der Kruit and H. van der Laan: *Active galaxies with radio trails in clusters*, *Nature* **237**, 269-272 (1972)
8. P.C. van der Kruit: *High-resolution observations of the nucleus, spiral structure and elliptical companions of M31 at 1415 MHz*, *Astrophys. Lett.* **11**, 173-180 (1972)
9. P.C. van der Kruit and P. Katgert: *Positions and flux densities at 1415 MHz of 5C3 sources near M31*, *Astrophys. Lett.* **11**, 181-185 (1972)
10. P.C. van der Kruit: *High-resolution radio continuum observations of bright spirals at 1415 MHz*, *B.A.A.S.* **5**, 30.
11. P.C. van der Kruit: *Spiral structure and nuclear activity in galaxies*, *Nature Phys. Sci.* **243**, 127-130 (1973)
12. P.C. van der Kruit: *Angular diameters of quasars and cosmology*, *Astrophys. Lett.* **15**, 27-33 (1973)
13. P.C. van der Kruit: *The compression strength of NGC4321 and comparison with M51*, *Astrophys. J.* **186**, 807-813 (1973)
14. P.C. van der Kruit: *High-resolution radio continuum observations of bright spiral galaxies in an optically complete sample at 1415 MHz*, *Astron. Astrophys.* **29**, 231-247 (1973)
15. P.C. van der Kruit: *Further high-resolution radio continuum observations of bright spiral galaxies at 1415 MHz*, *Astron. Astrophys.* **29**, 249-262 (1973) [Erratum: *Astron. Astrophys.* **31**, 477]
16. P.C. van der Kruit: *High-resolution radio continuum observations of bright spiral galaxies at 1415 MHz: A general discussion*, *Astron. Astrophys.* **29**, 263-275 (1973)

17. F.P. Israel and P.C. van der Kruit: *Radio observations of HII regions in M33*, Galactic Radio Astronomy (IAU Symp. **60**), 227-228 (1974)
18. F.P. Israel and P.C. van der Kruit: *Radio observations of HII regions in external galaxies: I. HII regions in M33*, Astron. Astrophys. **32**, 363-374 (1974)
19. P.C. van der Kruit: *The motions in the central region of NGC4736*, The Formation and Dynamics of Galaxies (IAU Symp. **58**). 431-437 (1974)
20. P.C. van der Kruit: *The motions in the central region of NGC4736: Evidence for an expanding ring*, Astrophys. J. **188**, 3-17 (1974)
21. P.C. van der Kruit: *The velocity field of NGC4258*, Astrophys. J. **192**, 1-19 (1974)
22. P.C. van der Kruit and H.C. Arp: *Discovery of a supernova in NGC3310*, IAU Central Bureau for Astronomical Telegrams, No. 2641 (1974)
23. P.C. van der Kruit: *Rotation properties of the infrared spiral galaxy NGC3675*, Astrophys. J. **195**, 611-615 (1975)
- 24.*. P.C. van der Kruit and R.J. Allen: *The radio continuum morphology of spiral galaxies*, Ann. Rev. Astron. Astrophys. **14**, 417-445 (1976)
25. P.C. van der Kruit and A.G. de Bruyn: *The peculiar spiral galaxy NGC3310: I. General properties; far ultraviolet and radio continuum observations*, Astron. Astrophys. **48**, 373-382 (1976)
26. P.C. van der Kruit: *The peculiar spiral galaxy NGC3310: II. The velocity field of the ionized gas*, Astron. Astrophys. **49**, 161-171 (1976)
27. P.C. van der Kruit: *Observations of the velocity fields in three spiral galaxies using optical emission lines*, Astron. Astrophys. Suppl. **25**, 527-548 (1976)
28. P.C. van der Kruit: *The velocity field in the inner part of NGC4736*, Astron. Astrophys. **52**, 85-92 (1976)
29. P.C. van der Kruit, R.J. Allen and A.H. Rots: *Radio continuum emission from the HII complexes and the non-thermal disk of NGC6946*, Astron. Astrophys. **55**, 421-433 (1977)
30. P.C. van der Kruit: *The radio continuum emission of M51*, Astron. Astrophys. **59**, 359-366 (1977)
31. P.C. van der Kruit: *The velocity field in the central region of the peculiar, hot-spot nucleus galaxy NGC2782*, Astron. Astrophys. **61**, 171-176 (1977)
- 32.*. P.C. van der Kruit: *The large-scale radio continuum structure of spiral galaxies*, Structure and Properties of Nearby Galaxies (IAU Symp. **77**), 33-48 (1978)
- 33.*. P.C. van der Kruit and R.J. Allen: *The kinematics of spiral and irregular galaxies*, Ann. Rev. Astron. Astrophys. **16**, 103-139 (1978)
34. P.C. van der Kruit and A. Bosma: *Optical surface photometry of the barred spiral galaxy NGC5383*, Astron. Astrophys. **70**, 63-68 (1978)
35. P.C. van der Kruit and A. Bosma: *The rotation curves and orientation parameters of the spiral galaxies NGC2715, 5033 and 5055*, Astron. Astrophys. Suppl. **34**, 259-266 (1978)

36. P.C. van der Kruit: *Optical surface photometry of eight spiral galaxies studied in Westerbork*, Astron. Astrophys. Suppl. **38**, 15-38 (1979)
37. A. Bosma and P.C. van der Kruit: *The local mass-to-light ratio in spiral galaxies*, Astron. Astrophys. **79**, 281-286 (1979)
- 38.*. P.C. van der Kruit: *Dynamics of galaxies*, ESO/ESA conference on the Astronomical Uses of Space Telescope, 241-247 (1979)
39. P.C. van der Kruit and L. Searle: *The Palomar-Westerbork survey of bright northern-hemisphere galaxies*, Photometry, Kinematics and Dynamics of Galaxies, 93-95 (1980)
40. P.C. van der Kruit, G.S. Shostak and T.S. van Albada: *The z-distribution of the HI in the spiral galaxy NGC3938*, Photometry, Kinematics and Dynamics of Galaxies, 277-281 (1980)
41. P.C. van der Kruit and L. Searle: *On the distribution of light and colours in disks and bulges of edge-on spiral galaxies*, Two-Dimensional Photometry, 281-284 (1980)
- 42.*. R. Sancisi and P.C. van der Kruit: *Distribution of non-thermal emission in galaxies*, Origin of Cosmic Rays (IAU Symp. **94**), 209-214 (1981)
43. P.C. van der Kruit and L. Searle: *Surface photometry of edge-on galaxies: I. A model for the three-dimensional distribution of light in galactic disks*, Astron. Astrophys. **95**, 105-115 (1981)
44. P.C. van der Kruit and L. Searle: *Surface photometry of edge-on galaxies: II. The distribution of light and colour in the disk and spheroid of NGC891*, Astron. Astrophys. **95**, 116-126 (1981)
45. P.C. van der Kruit: *The thickness of the hydrogen layer and the three-dimensional mass distribution in NGC891*, Astron. Astrophys. **99**, 298-304 (1981)
46. P.C. van der Kruit and G.S. Shostak: *Studies of nearly face-on galaxies: I. The velocity dispersion of the HI gas in NGC3938*, Astron. Astrophys. **105**, 351-358 (1982)
47. P.C. van der Kruit and L. Searle: *Surface photometry of edge-on galaxies: III. Properties of the three-dimensional distribution of light and mass in disks of spiral galaxies*, Astron. Astrophys. **110**, 61-78 (1982)
48. P.C. van der Kruit and L. Searle: *Surface photometry of edge-on galaxies: IV. The distribution of light, colour and mass in the disk and spheroid of NGC7814*, Astron. Astrophys. **110**, 79-94 (1982)
49. G.S. Shostak, E. Hummel, P.S. Shaver, J.M. van der Hulst and P.C. van der Kruit: *NGC1961: Stripping of a supermassive spiral galaxy*, Astron. Astrophys. **115**, 293-307 (1982)
- 50.*. P.C. van der Kruit: *Structure and evolution of galaxies*, Trans. IAU **XVIII A**, 310-313 (1982)
- 51.*. P.C. van der Kruit and G.S. Shostak: *Vertical motions and the thickness of HI disks: Implications for galactic mass models*, Internal Kinematics and Dynamics of Galaxies (IAU Symp. **100**), 69-76 (1983)
52. G.S. Shostak and P.C. van der Kruit: *Studies of nearly face-on spiral galaxies: II. HI synthesis observations and optical surface photometry of NGC628*, Astron. Astrophys. **132**, 20-32 (1983)

- 53.*. P.C. van der Kruit: *Populations and mass distributions in spiral galaxies*, Proc. Astron. Soc. Australia **5**, 136-143 (1983)
54. N. Visvanathan, I.G. Tuohy, D.T. Wrickramasinghe, P.C. van der Kruit and K.C. Freeman: *HO 139-68*, IAU Circ **3833**, 2 (1983)
55. P.C. van der Kruit and K.C. Freeman: *The vertical velocity dispersion of the stars in the disks of two spiral galaxies*, Astrophys. J. **278**, 81-88 (1984)
56. P.C. van der Kruit and G.S. Shostak: *Studies of nearly face-on spiral galaxies: III. HI synthesis observations of NGC1058 and the mass distribution in galactic disks*, Astron. Astrophys. **134**, 258-267 (1984)
57. B. Baud, R. Waters, J. de Vries, G.D. van Albada, F. Boulanger, P.R. Wesselius, F. Gillet, H.J. Habing and P.C. van der Kruit: *A giant asymmetric dust shell around Betelgeuse*, B.A.A.S. **16**, 404-405 (1984)
58. P.C. van der Kruit: *A comparison of our Galaxy to NGC891 and NGC4565 and the structure of their spheroids*, Astron. Astrophys. **140**, 470-475 (1984)
- 59.*. P.C. van der Kruit: *Spiral Galaxies* (abstract), Observatory **105**, 162-163 (1985)
60. P.C. van der Kruit and K.C. Freeman: *Stellar kinematics and the stability of disks in spiral galaxies*, Astrophys. J. **303**, 556-572 (1986)
61. P.C. van der Kruit: *Surface photometry of edge-on galaxies: V. The distribution of luminosity in the disk of the Galaxy derived from the Pioneer 10 background experiment*, Astron. Astrophys. **157**, 230-244 (1986)
- 62.*. P.C. van der Kruit: *Structure and evolution of galaxies*, Trans. IAU **XIX A**, 317-323 (1985)
- 63.*. P.C. van der Kruit: *Observational searches for dark halos*, Dark Matter in the Universe (IAU Symp. **117**), 426-424 (1986)
64. B.M.H.R. Wevers, P.C. van der Kruit and R.J. Allen: *The Palomar-Westerbork survey of northern spiral galaxies*, Astron. Astrophys. Suppl. **66**, 506-662 (1986)
65. R. Bottema, G.S. Shostak and P.C. van der Kruit: *The thickness of the HI layer in the edge-on dwarf galaxy NGC5023*, Astron. Astrophys. **167**, 34-40 (1986)
66. P.C. van der Kruit: *The radial distribution of surface brightness in galactic disks*, Astron. Astrophys. **173**, 59-80 (1987)
67. R. Bottema, P.C. van der Kruit and K.C. Freeman: *The stellar velocity dispersion in the disk of the spiral galaxy NGC5170*, Astron. Astrophys. **178**, 77-90 (1987)
- 68.*. P.C. van der Kruit: *Comparison of the Galaxy to external galaxies*, The Galaxy (NATO Advanced Study Inst. Proc.), 27-50 (1987)
69. F.X. Hu, R.J. Allen, P.C. van der Kruit and J.H. You: *Some features of the galactic halo in NGC891*, Astroph. Space Science **135**, 389-392 (1987) [Erratum: Astroph. Space Science **139**, 423]
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Note: Before the nineties it was customary –contrary to the present practice– in general not to co-author papers of Ph.D. students unless one had a major contribution to the data collection, the reduction and/or the modelling. Starting with Kregel I did co-author in principle most papers that came out of thesis research that I actively (co-)supervised.

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Bibliometric indicators

CWTS - Leiden:

The impact ratio used by the Centre for Science and Technology Studies in Leiden is defined as the number of citations to a person's papers over a certain period divided by the number of citations expected on the basis of a comparison set (average number of citations of all papers from the same years in either the same journals or in all journals in the field).

The CWTS works with windows as follows. E.g. 1980 – 1995 means publications that appeared between start of 1980 and the end of 1995, and citations to those until the end of 1995. The field is 'astronomy and astrophysics'.

1980 – 1995: My impact ratio w.r.t. journals is **3.28**; w.r.t. the field it is **2.89**.

1991 – 2001: My impact ratio w.r.t. journals is **2.64**; w.r.t. the field it is **1.80**.

1994 – 2003: My impact ratio w.r.t. journals is **2.67**; w.r.t. the field it is **2.04**.

Henk Spruit's "curve of growth" method.

For a large set of astronomers their total number of citations for first-author papers is listed as a function of years since their Ph.D. This follows a curve with a universal shape, which is then fitted for each individual with an amplitude scaling factor α .

Up to 1998: My $\alpha = 3.07 \pm 0.19$.

Dave Burstein's compilation.

Burstein has made a compilation of paper and citation counts of 4617 astronomers.

1981.0 – 1997.5: The compilation lists me with an average of **47.16** citations per paper. This is **1.75** times the average value and **2.58** times the median. Of the sample, **90.3%** of astronomers have fewer citations per paper than I do.

NASA ADS:

These are impact ratio's analogous to those of the CWTS derived by myself with the NASA Astronomy Database System.

1970 – 2002: My impact ratio w.r.t. journals **2.54**; w.r.t. the field (the major astronomical journals) it is **2.28**.

In 2004 I performed a comparative study of bibliographic indices of astronomers at institutes in the Netherlands, using the NASA Astrophysics Data System (ADS). The results of that exercise are available through my homepage or directly at <http://www.intra.astro.rug.nl/~vdkruit/jea3/homepage/ads.pdf>.

In the table below my own scores are compared to the distribution among the 98 active astronomical researchers in the Netherlands. The data are as of summer 2004 and concern only papers in refereed journals according to the definition of ADS. In "normalised" scores the number publications or of citations to these have been divided by the number of authors of the publications involved.

Publication scores (**refereed papers only!**) up to 2004 for myself and the distribution among Dutch astronomers; for comparison my current values (January 2010).

parameter		median	quartile	90%-tile	current
number of papers	74	60	102	175	86
citations to papers	3894	2051	3203	5196	5245
citations per paper	52.6	24.7	33.1	43.8	70.0
year of first publication	1970	1980	1972	1966	1970
papers per year	2.2	2.8	4.8	6.8	2.2
citations to papers per year	114.5	76.0	126.4	178.9	131.1
expected number of citations per paper	24.4	23.9	24.5	24.6	31.5
impact ratio	2.16	1.11	1.45	2.08	2.22
h-index	39	25	32	38	40
normalised number of papers	50	22	33	52	54
normalised citations to papers	2454	420	1025	1636	3192
normalised citations per normalised paper	49.1	22.0	30.8	49.1	59.1
normalised number of papers per year	1.5	1.0	1.4	2.0	1.4
normalised citations to papers per year	72.2	19.7	36.0	56.9	79.9
average number of authors on papers	1.5	3.3	2.4	2.0	1.6
normalised h-index	32	12	18	22	33

The **bold** parameters indicate where I score within the 90%-tile.

In terms of number of papers I do certainly better than the median person, and in terms of number of citations I am in the upper quartile. The number of papers per year and number of citations per year are heavily influenced by the fact that I have mostly published papers with small numbers of authors. In addition, up till recently I have generally not been co-author on papers of my Ph.D. students. As a result, my average is 1.5 authors per paper¹ and in that distribution (which has a median of 3.3) I am well into the (lower) ninety-percentile. This has been my style of doing research; I have been most comfortable working in small collaborations, often with a single colleague or graduate student.

In terms of normalised properties my scores in numbers of publications or citations (both absolute and per year) are excellent. My score in the number of normalised citations and those per paper or per year are actually above the ninety-percentile.

My number of citations per paper is very high (well above the ninety-percentile). Also the impact ratio (actual number of citations per paper relative to the expected number based on the length of one's career) is over 2 and above the ninety-percentile of the distribution of that parameter.

More recently the use of the h -index (the number of papers that have received more citations than their rank in a list sorted according to number of citations; if the h -index is n then the person –or group– has n papers that have received n citations or more) is replacing the impact ratio. The disadvantage of the index is that it grows with the length of one's career and it does not allow for the number of authors (many papers with many authors gives more chance for a high h -index).

In connection with the review of the Netherlands Research School for Astronomy (NOVA) Peter Kamphuis and I produced a comparative study of citations for a number of samples of as-

¹This has been estimated by dividing the number of papers by the number of normalised papers.

tronomers in February 2010 (see www.astro.rug.nl/~vdkruit/jea3/homepage/NOVA_ADS.pdf). It compared various measures of citation scores for staff members of NOVA research institutes at the Dutch universities, faculty of the 10 top-institutes in the U.S.A., a random sample of astronomers from the AAS (American Astronomical Society) membership list and one from the IAU (International Astronomical Union) membership list, and the ‘key-researchers’ of NOVA (leading astronomers in the Netherlands). We also derived the h -index for first author papers and normalised citations (normalised means the number of publications or citations divided by the number of authors on each paper).

In the table I reproduce these results together with my individual scores. These data have been derived from ADS in January 2010.

parameter	NOVA	TopUS	AAS	IAU	NOVA-kr	PCK
number of people in sample	79	177	172	193	26	1
number of papers	90	94	26	58	123	124
number of first-author papers	21	22	8	19	23	62
normalised number of papers	26	25	7	20	33	73
number of normalised first-author papers	11	10	3	9	13	50
number of citations	3325	4175	544	1042	4558	5255
number of first-author citation	795	971	112	256	1166	3618
number of normalised citations	704	929	86	271	1213	2571
h -index	31	34	12	17	39	40
first-author h -index	13	14	4	8	14	30
normalised h -index	14	16	5	9	16	33
first-author normalised h -index	9	10	3	6	10	27
citations per paper	36	43	21	18	38	42
citations per first-author paper	39	39	13	15	45	58
normalised citations per normalised paper	33	35	17	14	37	35
papers per year	3.9	3.3	1.6	1.9	5.6	3.1
citations per year	131	141	34	34	229	131
normalised papers per year	1.1	0.9	0.4	0.7	1.5	1.8
normalised citations per year	34	33	6	10	57	64
first-author papers per year	0.9	0.9	0.5	0.6	1.2	1.6
first-author citations per year	40	33	8	9	59	90
number of publishing years	25	30	18	30	22	40

I compare very favorably with astronomers in top-US institutes and with the best colleagues in the Netherlands (NOVA key-researchers), especially when the papers are normalised by the number of authors or have been restricted to first-author papers.

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