

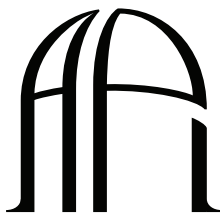
# CURRICULUM VITAE RALPH A.M.J. WIJERS

AUGUST 2018



## Biographical sketch

Ralph Wijers has been professor of high-energy astrophysics at the University of Amsterdam since 2002. He specialises in energetic explosions from extreme objects such as black holes and neutron stars and is PI of the AARTFAAC all-sky radio telescope. He got his MSc from Leiden Observatory and his PhD from the University of Amsterdam. He went on to Princeton on a NASA Compton Fellowship and Cambridge on a Royal Society Fellowship, after which he became assistant professor at Stony Brook University. He is a VICI and ERC Advanced Investigator laureate and winner of the 2002 EU Descartes Prize for his discoveries in gamma-ray bursts, with an international team. He teaches enthusiastically from the broad undergraduate level to highly specialised graduate courses, and is actively involved in outreach. Astrid and he have two daughters. He is a member of several national and international scientific governing and advisory councils. Since 2011, he is director of the Anton Pannekoek Institute for Astronomy.



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This extensive CV is subdivided into two parts. The first lists some major items completely, and gives highlights or summaries on most others. The second part provides extensive listings of some items, such as a complete publication list.

# CURRICULUM VITAE — MAJOR AND SUMMARY FACTS

## 1 Summary information

### Biographic information:

Name: Ralph A.M.J. Wijers  
 Address: Anton Pannekoek Institute for Astronomy, Faculty of Science, University of Amsterdam, Science Park 904, 1098 XH Amsterdam, The Netherlands  
 Personal: Born 31-May-1964 in Sittard (NL), Dutch citizen; married in 1990 to Astrid M. Havinga, two daughters: Nastasha (b. 1993) and Naomi (b. 1994)

### Education and employment:

1987 MSc, Astronomy with Theoretical Physics, cum laude, Leiden Observatory  
 1991 PhD, Physics and Astronomy, University of Amsterdam  
 1991–1994 Research Associate, Princeton University  
 1994–1997 Research Associate, Institute of Astronomy, Cambridge  
 1997–1998 Senior Research Associate, Institute of Astronomy, Cambridge  
 1998–2002 Assistant Professor, Stonybrook University  
 2002–2007 Adjunct Professor, Stonybrook University  
 2002– Professor of High-energy Astrophysics, University of Amsterdam  
 2011– Director, Anton Pannekoek Institute for Astronomy  
 2017– Adjunct Professor, George Washington University

### Honours and awards:

1991 Compton GRO Fellowship  
 1997 Royal Society University Research Fellowship  
 2002 EU Descartes Prize (as member of 20-person team)  
 2004 NWO VICI laureate  
 2010 ERC Advanced Investigator laureate

### Publications:

451 publications (259 refereed), 19,500 citations,  $h = 71$ . 45 papers have over 100 citations, and two have over 1000 (from NASA Astrophysics Data System; Google Scholar lists 25,900 citations and  $h = 81$ ).

### Research interests:

Theoretical and observational work in high-energy astrophysics. I have worked on formation of X-ray spectra, binary stellar evolution, neutron star populations and accretion physics. My current research concerns gamma-ray bursts and their afterglows, progenitors and central engines of gamma-ray bursts, and the search and study of transient radio sources.

### Group leadership:

Since 2004, I have had a significant research group with multiple postdocs, software developers, and PhD students, as well as MSc and BSc students. I have been the daily (co-)supervisor of 18 completed and 5 ongoing PhD students, and play(ed) a formal supervisory role ('promotor') for 24 more. I also (co-)supervised 19 postdocs and software developers. My current group has 1 postdoc and 5 PhD studentst and I formally supervise 10 more PhD students.

**Learned Societies:**

Nederlandse Astronomenclub (since 1985), Vereniging tot bevordering van Natuur- Genees- en Heelkunde (since 1990), American Astronomical Society (since 1992), Royal Astronomical Society (since 1995), Nederlandse Natuurkunde Vereniging (since 2002), International Astronomical Union (since 2003)

**Editorships:**

2006– Editor, Monthly Notices of the Royal Astronomical Society  
 2000–2009 Editor, New Astronomy Reviews  
 2009– Coördinating Editor, New Astronomy Reviews

**Major grants and observing programmes:**

I have been principal or co-investigator on a significant number of grants; I list the major ones below. Also very important in astronomy are observing proposals, via which we competitively obtain the data on which our results are based. I list some of the major succesful observing proposals or series thereof in which I was involved.

2002 EU Research and Training Network grant *Gamma-ray bursts: An enigma and a tool*; co-PI of large European consortium to study gamma-ray bursts (1.8 M€).

2002 LOFAR. Co-investigator and UvA lead on major infrastructure grant to build the LOFAR radio telescope (75 M€ from national and 22 M€ from regional governments).

2004 NWO VICI grant *Gamma-ray bursts: Extreme laboratories of Astrophysics and particle physics*; PI of personal grant to set up a research group in gamma-ray burst astrophysics (1.25 M€).

2006–2011 *Development and Commissioning of LOFAR for Astronomy – DCLA*; one of four co-PIs to develop the science pipelines for LOFAR and commission them (6.1 M€).

2010 ERC Advanced Investigator grant *Amsterdam-ASTRON Radio Transient Facility And Analysis Centre: Probing the Extremes of Astrophysics (AARTFAAC)*; PI of grant to build and use a radio frequency all-sky monitor in the LOFAR core (3.5 M€).

2000–2011 *Gamma-Ray burst Afterglow Collaboration in Europe – GRACE*; co-PI of an observing consortium to do target of opportunity followup of gamma-ray bursts, gaining time each semester on major instruments at VLT, La Palma, AAT, Gemini.

2000–2014 *WSRT radio monitoring of gamma-ray bursts*; PI or co-PI of long programmes at the Westerbork Synthesis Radio Telescope to probe the blast wave physics of gamma-ray burst afterglows.

2011– *LOFAR Transients Key Project*; co-PI of the consortium that gains large shares of LOFAR time to survey the sky for pulsars and radio transients and study them in detail.

2015– *SKA Netherlands*; co-PI of the consortium that develops the science and software for the NL involvement in SKA1 (12 M€).

**Major instrumentation efforts:**

- 2000-2005 ESO VLT RRM. With a small group, I helped build the science case for ESO to implement a fully automated fast reaction capability to external alerts on its Very Large Telescope: the Rapid Response Mode (RRM). It has enabled VLT to observe new gamma-ray bursts within minutes after their detection by a satellite (usually NASA's Swift) and made it the absolutely premier GRB followup observatory.
- 2002-2010 LOw Frequency ARray (LOFAR). I was co-PI on the funding proposals for the transients aspects of the telescope, and led the discussions on its final architecture following a funding de-scope. After that, I was member and chair of the committee overseeing its construction and its scientific exploitation for astronomy.
- 2004-2009 X-Shooter. I helped build the science case for this UV-opt-IR spectrograph for the VLT, which is now the most used instrument at the VLT (PI: prof. Lex Kaper).
- 2010- AARTFAAC. I am PI on the development of a low-frequency all-sky radio monitor. During operations, live all-sky radio images are shown at [aartfaac.org/live.html](http://aartfaac.org/live.html).
- 2012- SKA1 preparation. I am co-PI on the NL Roadmap grant for the preparation and development of the Netherlands' contribution to SKA phase 1.

**Board and committee service:**

- 1998- I have served on 1-3 SOCs of international meetings per year, and have chaired a handful.
- 2002-2011 Chair, Astrophysics Division, Netherlands Physical Society
- 2002-2006 PI, EU Research Training Network 'Gamma-ray Bursts'
- 2003-2009 Member, LOFAR Astronomy Research Committee
- 2003- co-PI, LOFAR Transients Key Project
- 2004-2011 Member, Committee on Astroparticle Physics in the Netherlands
- 2005-2015 Board Member, SRON Netherlands Institute for Space Research
- 2006-2011 Member, Netherlands Committee for Astronomy
- 2006-2007 Member, Astronet Science Vision panel A (high-energy)
- 2007-2014 Member, Astronet Roadmap panel A (high-energy)
- 2007-2010 Chair, LOFAR Astronomy Research Committee
- 2008- Member, Science Advisory Council, ASTRON Netherlands Institute for Radio Astronomy
- 2010-2015 Chair, Astronet European Radio Telescope Review Committee
- 2010-2013 Board Member, International LOFAR Telescope
- 2011- Chair, Netherlands Committee for Astronomy
- 2011- Board Member, NOVA Netherlands Research School for Astronomy
- 2013-2016 Member, TWINS Council (Royal Netherlands Academy of Sciences advisory council on natural sciences)
- 2016- Board Member, Nederlandse Astronomenclub

**Refereeing and jury memberships:**

I referee regularly for most major astronomy journals (although less now due to my editorial duties) and regularly act as referee for funding proposals for diverse agencies, nationally and internationally (including the ERC). I have also served on time allocation panels for ground- and space-based observatories. More senior panel memberships include a NASA Small Explorer panel, and several NWO (Netherlands National Science Foundation) funding panels.

**Teaching:**

- 1987–1998 During my PhD and postdoctoral years, I was TA for numerous courses and labs, and supervised MSc student projects in Amsterdam and Princeton.
- 1998–2002 At Stonybrook University, I taught the Astronomy 101 course for non-science majors (typically 150 students), and several senior physics and astronomy courses: Interstellar Medium; Senior and Graduate Lab; High-energy Astrophysics; Graduate Presentation Course.
- 2002– At the University of Amsterdam, I teach or have taught a wide range of BSc and MSc courses. Among them are big courses (50–200 students): the University-wide non-science major course ‘From Big Bang to Stardust’; the Natural-Science-wide course ‘Symmetry and Pattern Formation in Nature’; the first-year Physics & Astronomy course ‘Astronomy 1’, with practical lab; and ‘Turning Points in Natural Science’. And more specialised BSc and MSc courses with 10–40 students: Radiative Processes; Structure and Evolution of Stars; High-Energy Astrophysics; Astronomy Workshop; Open Problems in Modern Astrophysics; Introduction to Cosmology. I currently teach 1–2 full courses per year. Furthermore, I regularly supervise BSc and MSc thesis projects.

**Examples of university service:**

- Institute* Chair, astronomy PhD progress monitoring committee (‘inquisition’); Member, Physics & Astronomy education council; director, MSc Astronomy; Chair, 6-yearly MSc astronomy accreditation; institute director.
- Faculty* member, Advisory council Bachelor School of Science; member, teaching budgeting advisory group; member, faculty works council; member, dean’s research directors council.
- University* member, President’s Education Advisory Council; member, PhD regulation advisory group; backup member, University Council on Ethics.

**Examples of outreach:**

I find outreach in astronomy very important, as it illustrates the natural sciences in an inspiring way and can help draw interest and talent to natural science. I have done astronomy outreach since age 16, in the form of lectures, events, interviews, popular articles, and the like, and organise or participate in about 10 events per year in recent times. Some examples are:

- 1996–1998 Organised monthly Astronomy Open Nights at Stonybrook University, and expanded the concept to physics, chemistry, and biology.
- 1997– Popular articles in US, UK, and NL magazines such as Science Spectra, Physics World, Zenit, Nederlands Tijdschrift voor Natuurkunde.
- 2002– About 10 appearances on local and national radio and TV on current astronomy topics.
- 2005 Finalist, annual national academic outreach award ‘Academische Jaarprijs’ with project ‘Einsteinflits’.
- 2012 Co-hosted Alumni Day debate on the future of physics.
- 2012 Organised University-wide Venus Transit event.
- 2013 Set up Astronomy Open nights at University of Amsterdam.
- 2013 Lectured on black holes for ‘Universiteit van Nederland’ internet course for general public ([www.universiteitvannederland.nl](http://www.universiteitvannederland.nl)).
- 2015 Lectured on big bang for ‘Universiteit van Nederland’ internet course for general public ([www.universiteitvannederland.nl](http://www.universiteitvannederland.nl)) as one of very few repeat invitees.
- 2014–2016 Helped arrange for a art installation ‘Inverted Night Sky’ by Jeronimo Voss, in Stedelijk Museum Bureau Amsterdam, inspired by research and views of Anton Pannekoek.
- 2015 Supplied imagery and helped fund artistic project on natural science entitled ‘New Realism: The Gaze of Science’.

## 2 Key papers

The papers below are well-known works that represent the breadth and impact of my work from my early career until the present.

- [1] Bhattacharya, D., Wijers, R.A.M.J., Hartman, J.W., and Verbunt, F. 1992, *On the decay of the magnetic fields of single radio pulsars*, A&A, 254, 198
- [2] Wijers, R.A.M.J., Rees, M.J., and Mészáros, P. 1997, *Shocked by GRB 970228: the afterglow of a cosmological fireball*, MNRAS Lett., 288, L51
- [3] Galama, T.J., ....., Wijers, R.A.M.J., et al. 1998, *An unusual supernova in the error box of the  $\gamma$ -ray burst of 25 April 1998*, Nature, 395, 670
- [4] Wijers, R.A.M.J., Bloom, J.S., Bagla, J.S., and Natarajan, P. 1998, *Gamma-ray bursts from stellar remnants - Probing the universe at high redshift*, MNRAS Lett., 294, L13
- [5] Wijers, R.A.M.J. and Galama, T.J. 1999, *Physical Parameters of GRB 970508 and GRB 971214 from Their Afterglow Synchrotron Emission*, ApJ, 523, 177
- [6] Wijers, R.A.M.J. and Pringle, J.E. 1999, *Warped accretion discs and the long periods in X-ray binaries*, MNRAS, 308, 207
- [7] Van Paradijs, J, Kouveliotou, C., and Wijers, R.A.M.J. 2000, *Gamma-Ray Burst Afterglows*, Annu. Rev. Astron. Astrophys, 38, 379
- [8] Lee, H.K., Wijers, R.A.M.J., and Brown, G.E. 2000, *The Blandford-Znajek process as a central engine for a gamma-ray burst*, Phys. Rev. Lett., 325, L83
- [9] Hjorth, J., ....., Wijers, R.A.M.J., et al. 2003, *A very energetic supernova associated with the  $\gamma$ -ray burst of 29 March 2003*, Nature, 423, 847
- [10] Gehrels, N, ....., Wijers, R.A.M.J., et al. 2005, *A short  $\gamma$ -ray burst apparently associated with an elliptical galaxy at redshift  $z = 0.225$* , Nature, 437, 851
- [11] Pe'er, A., Ryde, F., Wijers, R.A.M.J, Mészáros, P., Rees, M.J. 2007, *New Method of Determining the Initial Size and Lorentz Factor of Gamma-Ray Burst Fireballs Using a Thermal Emission Component*, ApJ Lett., 664, L1
- [12] Tanvir, N.R., ....., Wijers, R.A.M.J., et al. 2009, *A gamma-ray burst at redshift  $z \sim 8.2$* , Nature, 461, 1254
- [13] Stappers, B.W., ....., Wijers, R.A.M.J., et al. 2011, *Observing pulsars and fast transients with LOFAR*, A&A, 530, A80
- [14] van Haarlem, M.P., ....., Wijers, R.A.M.J., et al. 2013, *LOFAR: The LOw-Frequency ARray*, A&A, 556, A2

### 3 History of key ideas

Here I list key ideas or advances that I invented, or to the invention of which I contributed significantly, in roughly chronological order.

- Spectral lags in X-ray sources can diagnose the geometry of the inner accretion region.
- Magnetic fields in neutron stars do not decay quickly, nor much spontaneously.
- Whether a massive star leaves a neutron star or a black hole is very strongly affected by its mass loss history in a binary star.
- Gamma-ray bursts are the result of relativistic explosions at cosmological distances.
- Long gamma-ray bursts are caused by exploding massive stars, and may help trace the star formation history of the universe.
- Good multi-wavelength light curves of gamma-ray burst afterglows can determine the physical parameters of a relativistic blast wave.
- Long periods in X-ray binaries are well explained with radiatively driven precession of their accretion disks.
- Collimation of a gamma-ray burst explosion can be diagnosed from the light curve of the afterglow.
- The Blandford-Znajek process delivers a plausible central engine for gamma-ray bursts.
- Polarization is a useful diagnostic tool for beaming and magnetic field geometry in gamma-ray bursts.
- Afterglow spectroscopy of gamma-ray bursts can diagnose evolution of the ISM at high redshift.
- Black holes in close binaries are remnants of gamma-ray bursts.
- Gamma-ray burst environments are transparent surprisingly often.
- Short gamma-ray bursts do not originate from dying massive stars.
- Late-time radio afterglows are very constraining for the physics of gamma-ray burst blast waves.
- Not all long gamma-ray bursts are associated with a strong supernova.
- The thermal component of prompt gamma-ray emission in gamma-ray bursts can strongly constrain the fireball physics.
- Extended slower-decay ‘plateaus’ in gamma-ray burst light curves can be due to late energy injection, but then the plateau need *not* be achromatic.
- All-sky radio monitoring is possible with phased-array telescopes due to new ultrafast signal processing techniques.



## 4 Invited talks and colloquia

- [1] Wijers, R.A.M.J. 2018, *Extreme radio astronomy: Hunting 20,000 sq.deg/s*, invited talk, Insight/HXMT meeting, Chengdu, June 2018
- [2] Wijers, R.A.M.J. 2018, *Transients, transients: A steady hand in a field of change*, invited talk, Neil Gehrels memorial meeting, Washington DC, May 2018
- [3] Wijers, R.A.M.J. 2017, *Rapid searches for radio transients*, invited talk, Insight/HXMT meeting, Beijing, November 2017
- [4] Wijers, R.A.M.J. 2017, *Transients with LOFAR and AARTFAAC*, colloquium, Tsinghua University, physics department, November 2017
- [5] Wijers, R.A.M.J. 2017, *Transients with LOFAR and AARTFAAC*, colloquium, Shanghai Observatory, November 2017
- [6] Wijers, R.A.M.J. 2016, *Causes and Uses of (Stellar) Explosions*, prepared comment, 26<sup>th</sup> Solvay Conference on Physics, Brussels, October 2014
- [7] Wijers, R.A.M.J. 2014, *Exploring the LOFAR Skies*, colloquiumk, University College Dublin, Ireland, February 2014
- [8] Wijers, R.A.M.J. 2014, *Exploring the LOFAR Skies*, colloquium, University College Cork, Ireland, February 2014
- [9] Wijers, R.A.M.J. 2013, *Gamma-ray Bursts and the Black Holes They Make*, invited talk, Gerry Brown Memorial Meeting, Stony Brook, USA, November 2013
- [10] Wijers, R.A.M.J. 2013, *LOFAR (ILT): Some first results and future outlook*, invited talk, Lighthouses in the Universe, Santorini, Greece, September 2013
- [11] Wijers, R.A.M.J. 2013, *Preliminary Conclusions of the European Radio Telescope Review Committee*, invited talk, EWASS, Turku, Finland, July 2013
- [12] Wijers, R.A.M.J. 2013, *How Not to Give a Talk*, invited talk, Second Panda Symposium, Xian, China, April 2013
- [13] Wijers, R.A.M.J. 2012, *Gamma-ray Bursts: Update and Open Problems*, Invited talk, Blaauw Symposium, Groningen, The Netherlands, October 2012.
- [14] Wijers, R.A.M.J. 2012, *Gamma-ray Bursts and Other Transients*, Invited Plenary Lecture, South African Institute of Physics Meeting, Pretoria, South Africa, July 2012.
- [15] Wijers, R.A.M.J. 2012, *Netherlands Astronomy*, Invited review, South African Astronomical Society Town Hall Meeting, Pretoria, South Africa, July 2012.
- [16] Wijers, R.A.M.J. 2011, *LOFT-LOFAR Transient Synergies*, LOFT Meeting, Amsterdam, Netherlands, October 2011.
- [17] Wijers, R.A.M.J. 2011, *Gamma-Ray Bursts: Ultimate Multi-Messengers*, invited talk, JENAM, St. Petersburg, Russia, July 2011.
- [18] Wijers, R.A.M.J. 2011, *Trawling Transients with LOFAR*, invited talk, Nederlandse Astronomenconferentie, Texel, Netherlands, May 2011
- [19] Wijers, R.A.M.J. 2011, *GRBs in Radio: (Meer)KAT( $\gamma$ ) Possibilities*, invited talk, ThunderKAT workshop, Arniston, South Africa, April 2011
- [20] Wijers, R.A.M.J. 2011, *Trawling Transients with LOFAR*, invited talk, AAS Meeting, Seattle, WA, January 2011
- [21] Wijers, R.A.M.J. 2010, *Sursauts Gamma en Ondes Radio*, invited talk, Atelier ‘Sursauts Gamma’, Toulouse, September 2010
- [22] Stappers, B., Fender, R.P., & Wijers, R.A.M.J. 2009, *The LOFAR Transients Key Science Project*, 8th International e-VLBI Workshop, p.21 (published online)

- [23] Wijers, R.A.M.J. 2008, *Gamma Ray Bursts - where are we going?*, Proceedings of the 7th INTEGRAL Workshop, September 2008, Copenhagen, p.2 (published online)
- [24] Wells, A., Wijers, R. A. M. J., & Rees, M. J. 2007, *Introduction: recent developments in the study of gamma-ray bursts*, Royal Society of London Philosophical Transactions Series A, 365, 1111-1118
- [25] Wijers, R.A.M.J. 2003, *Gamma-ray Bursts*, plenary talk, APS Spring Meeting, Philadelphia, PA, USA, April 2003
- [26] Wijers, R.A.M.J. 2003, *Some Cosmological Implications of Gamma-ray Bursts*, in E.P.J. van den Heuvel, L. Kaper, E. Rol, & R.A.M.J. Wijers (eds.) *Jan van Paradijs Memorial Symposium*, Amsterdam, June 2001, APS Conf. Proc., 308, 387
- [27] Wijers, R.A.M.J. 2003, *Signs and Consequences of a Supernova - Gamma-Ray Burst Association*, in G.R. Ricker & R.K. Vanderspek (eds.) *Gamma-Ray Burst and Afterglow Astronomy 2001*, in proceedings of the meeting in Woods Hole, MA, November 2001, AIP Conf. Proc. 662, (AIP:Melville, NY), 396–402
- [28] Wijers, R.A.M.J. 2002, *Gamma-ray bursts*, The Century of Space Science, Volume I, 499
- [29] Wijers, R.A.M.J. 2001, *The GRB-afterglow transition: Black holes, bullets, and beams*, in H.Y. Chang, C.H. Lee, M. Rho, I. Yi (eds.) *Explosive Phenomena in Astrophysical Compact Objects*, proc. of the first KIAS Astrophysics Workshop, Seoul, June 2000. AIP Conf. Proc. 556, 268–275
- [30] Wijers, R.A.M.J. 2001, *Strange Afterglows from Embedded GRBs: Reconciling Hypernovae with Slow Decays*, in E. Costa, F. Frontera, & J. Hjorth (eds.) *Gamma-Ray Bursts in the Afterglow Era*, Rome, October 2000, (Springer: Berlin), 306–311
- [31] van Paradijs, J., Kouveliotou, C., & Wijers, R.A.M.J. 2000, *Gamma-Ray Burst Afterglows*, Annu. Rev. Astron. Astrophys., 38, 379-425
- [32] Brown, G.E., Lee, C.-H., Wijers, R.A.M.J., & Bethe, H.A. 2000, *Evolution of black holes in the galaxy*, in Brown, G., Kamionkowski, M., Turner, M.S. (eds.) *David Schramm's Universe. Special volume dedicated to the memory of David Norman Schramm, 1945–1997* Phys. Rep., 333, 471–504
- [33] Wijers, R.A.M.J. 1999, *Gamma-Ray Bursts: Perspectives and Prospects*, in J. Poutanen and R. Svensson (eds.) *Gamma-Ray Bursts: The First Three Minutes*, ASP Conf. Series vol. 190 (ASP:San Francisco), 297–305
- [34] Wijers, R.A.M.J. 1999, *Gamma-ray bursts at high redshift,  $2 < z < 5$* , in S.S. Holt and E.P. Smith (eds.) *After the Dark Ages: When Galaxies Were Young (The Universe at  $2 < z < 5$ )*, proc. of ninth Astrophysics Conference, College Park, MD, October 1998, AIP Conf. Proc. 470, 380–387
- [35] Wijers, R.A.M.J. 1998, *Gamma-ray bursts near the horizon*, in C. Meegan, R. Preece, and T. Koshut (eds.) *Gamma-ray Bursts. 4<sup>th</sup> Huntsville Symposium*, AIP Conf. Proc. 428 (New York:AIP), 803–807 (refereed)
- [36] Wijers, R.A.M.J. 1996, *Black Holes in Binary Stars*, in R.A.M.J. Wijers, M.B. Davies and C.A. Tout (eds.) *Evolutionary Processes in Binary Stars*, proc. of the NATO ASI, Cambridge, UK, 10–21 July 1995, 327–344
- [37] Wijers, R.A.M.J. 1996, *Diagnosing Structure and Evolution of Clusters with Neutron Star Binaries*, in P. Hut and J. Makino (eds.) *Dynamical Evolution of Star Clusters — Confrontation of Theory and Observations*, proc. of IAU Symp. 174, Tokyo, Japan, 22–25 August 1995, 203–212

# CURRICULUM VITAE — COMPLETE LISTINGS

## 5 PhD students and postdocs supervised

### 5.1 PhD students

In the Dutch system, the formal advisor (‘promotor’) is required by law to be a full professor. Thus, starting in 2002, I am regularly promotor of a PhD student who is mainly supervised by someone else who is not a full professor. In the overview below, I indicate the roles of all those involved with a given PhD. I list myself also as supervisor if my involvement has inspired partly the direction of the work and/or has led to co-authorship of some papers with the candidate. For completed PhD’s, the graduation date and thesis title are given, for others the thesis topic. For all PhD students I give some ultrabrief biographical information. In addition, I am regularly on the reading, defense, or examination committee of PhD’s in various countries (NL, US, UK, Iceland), which I do not list here.

#### 1. Titus J. Galama

1996–1999 supervisor

promotor Prof. Jan van Paradijs

8-Dec-1999 *Gamma-ray burst afterglows*; cum laude

*MSc from U. of Amsterdam. After PhD, postdoc at Caltech, followed by faculty offer from the U. of Amsterdam, which he declined. Works for the Rand Corporation in California. As part of this research work, he obtained a second PhD in Economics.*

#### 2. Paul Vreeswijk

1998–2002 supervisor, with Dr. Lex Kaper and Prof. Ed van den Heuvel

promotor Prof. Ed van den Heuvel

12-Jun-2002 *Gamma-ray burst afterglows and the nature of their host galaxies*

*MSc from U. of Amsterdam. After PhD, postdocs at ESO, support scientist, postdoc at University of Iceland, and now postdoc at Weizmann Institute.*

#### 3. Evert Rol

1999–2004 promotor, with Prof. Ed van den Heuvel

supervisor, with Dr. Lex Kaper

29-Jan-2004 *The physics of gamma-ray burst afterglows*

*MSc from Free U. of Amsterdam. After PhD, postdocs at U. of Leicester and U. of Amsterdam, then scientific software developer at U. of Amsterdam and SRON, now reserach associate at Monash U.*

#### 4. Mieke Bouwhuis

1999–2004 supervisor, with Dr. Maarten de Jong

Promotor Prof. Karel Gaemers

7-Jul-2005 *Detection of neutrinos from gamma-ray bursts*

*After PhD, postdocs at U. of Amsterdam and Nikhef, then tenured staff position at Nikhef.*

**5. Alexander van der Horst**

2003–2007      promotor  
                   supervisor

7-Sep-2007      *Broadband view of blast wave physics*

*After PhD, postdocs at NASA Marshall (Huntsville) and U. of Amsterdam, now tenure-track assistant professor at George Washington U. (Washington DC).*

**6. Klaas Wiersema**

2003–2007      promotor  
                   supervisor

13-Sep-2007      *Delving into the dragon's den: The host galaxies of gamma-ray bursts*

*After PhD, postdoc at U. Leicester, now senior research associate at U. Leicester.*

**7. Hylke Koers**

2003–2007      promotor, with Prof. Karel Gaemers  
                   supervisor

21-Sep-2007      *The astrophysical herald: Neutrinos as probes for particle physics and astronomy*

*After PhD, postdoc at U. Libre de Bruxelles, then publisher and managing editor at Elsevier, then content innovation manager at Elsevier, now Head of Content Innovation.*

**8. Peter Curran**

2004–2008      promotor  
                   supervisor

25-Sep-2008      *Multi-wavelength analyses of gamma-ray bursts: Features of Swift GRBs and the blast wave model*

*MSc from U.C. Cork. After PhD, postdoc at U. College London's MSSL and CEA-Saclay, then at ICRAR, Curtin U., Perth. Deceased.*

**9. Evghenii Gaburov**

2004–2008      promotor, with Prof. Peter Sloot  
                   supervisor Dr. Simon Portegies Zwart

4-Nov-2008      *Stellar collisions in young star clusters*

*MSc from U. Leicester; After PhD, postdoc at Leiden Observatory, then CIERA Fellow and Hubble Fellow at Northwestern U., now High Performance Computing specialist at SURFsara, Amsterdam.*

**10. Hendrik van Eerten**

2006–2010      promotor  
                   supervisor

26-Feb-2010      *Gamma-ray burst afterglows from jet simulation to light curve*

*MSc from U. of Amsterdam. After PhD, postdoc at NYU, then Humboldt Fellow at MPA (Garching, Germany), now tenured faculty (lecturer) at U. of Bath.*

**11. Hanno Spreeuw**

2005–2010      promotor  
                   supervisor

18-Jun-2010      *Search and detection of low frequency radio transients*

*MSc from U. of Amsterdam, then worked in financial administration before PhD. Did his PhD as part-time (80%) position. After PhD, postdoc at KNMI (Netherlands meteorological institute) then postdoc at NKI (Netherlands cancer institute), Amsterdam, now senior software specialist, Netherlands e-Science Centre, Amsterdam.*

**12. Bart Scheers**

2005–2011 promotor  
supervisor

20-Jan-2011 *Transient and variable radio sources in the LOFAR sky: An architecture for a detection framework*

MSc from U. of Amsterdam, then worked in databasing for financial industry before PhD. Did his PhD as part-time (80%) position. After PhD, was postdoc and developer at U. of Amsterdam and CWI; now postdoc in database research at CWI.

**13. Daan Meerburg**

2007–2011 promotor  
supervisor, with Dr. Jan-Pieter van der Schaar

27-Sep-2011 *Exploring the early universe through the CMB sky; cum laude*

MSc from U. of Amsterdam, then got NWO TOPTALENT scholarship to fund his own PhD position. After PhD, postdoc at Princeton U. on NWO Rubicon Fellowship, extended via his own US funding application, then postdoc at CITA, now vidi fellow at U. Groningen.

**14. Konstantinos Leventis**

2009–2013 promotor  
supervisor

28-Feb-2013 *The many phases of GRB afterglows*

MSc from U. of Amsterdam. After PhD, R&D engineer at Petrotech Data Systems BV, Amsterdam.

**15. Tri Astraatmadja**

2009–2013 promotor prof. M. de Jong  
supervisor (minor)

26-Mar-2013 *Starlight beneath the waves: In search of TeV photon emission from gamma-ray bursts with the ANTARES neutrino telescope*

BSc from IT Bandung, MSc from U. Leiden; after PhD, postdoc at MPIA Heidelberg, with the GAIA project, Thompson postdoctoral Fellow at Carnegie Institution of Washington.

**16. Samia Drappeau**

2009–2013 promotor  
supervisor Dr. Sera Markoff

2-Apr-2013 *The ins and outs of emission from accreting black holes*

MSc's from U. Claude Bernard Lyon 1 and U. de la Méditerranée (Marseille); after PhD, postdoc at U. Paul Sabatier and CNRS, Toulouse. Now independent data scientist.

**17. Peter Polko**

2009–2013 promotor  
supervisor Dr. Sera Markoff

3-Apr-2013 *Exploring jet properties in magnetohydrodynamics with gravity*

MSc from U. Groningen. After PhD, JSI Postdoctoral Fellowship at U. Maryland, then postdoc at Los Alamos.

**18. Alexandros Chiotellis**

2009–2013 promotor  
supervisor Dr. Jacco Vink

16-Dec-2013 *Interaction of type Ia supernovae with their circumstellar medium*

BSc from U. Athens, MSc from U. Utrecht; after PhD, postdoc at National Observatory of Athens.

**19. Salome Dibi**

- 2009–2014      promotor  
                   supervisor Dr. Sera Markoff
- 1-Jul-2014      *Studying MHD and radiative processes in Sgr A\**  
                   BSc and MSc from U. Joseph Fourier, Grenoble; after PhD, postdoc at Radboud U. of Nijmegen.

**20. Sjors Broersen**

- 2010–2014      promotor  
                   supervisor Dr. Jacco Vink
- 27-Sep-2011    *X-ray spectral analysis of non-equilibrium plasmas in supernova remnants*  
                   MSc. from U. of Amsterdam. After PhD, consultant in Business Analytics (Big Data) at Deloitte.

**21. Olga Hartoog**

- 2010–2014      promotor, with Prof. Lex Kaper  
                   supervisor, with Profs. Lex Kaper & Joop Schaye
- 10-Dec-2014    *Spectroscopy of the environments of long gamma-ray bursts and their progenitors*  
                   MSc from U. of Amsterdam. After PhD, consultant data analytics at Deloitte.

**22. Pieter van Oers**

- 2010–2016      promotor  
                   supervisor Drs. Phil Uttley & Sera Markoff
- 6-Sep-2016      *Multi-wavelength studies of AGN samples*  
                   MSc from U. Amsterdam, started PhD at U. Southampton, transferred. After PhD, independent software developer.

**23. Thijs van Putten**

- 2011–2015      promotor  
                   supervisor, with Dr. Anna Watts
- 16-Feb-2016    *Magnetised outflows from extreme neutron stars*  
                   MSc from U. Amsterdam. After PhD, scientific software engineer at TASS international, working on autonomous car radar systems.

**24. Dario Carbone**

- 2011–2016      promotor  
                   supervisor
- 21-Oct-2016    *Exploring the Transient Sky: From Surveys to Simulations*  
                   MSc from U. Milan. After PhD, postdoc with A. Corsi at Texas Tech University.

**25. Yvette Cendes**

- 2011–2017      promotor  
                   supervisor
- Studies of radio transients with LOFAR and AARTFAAC*  
                   MSc from Case Western U. Ms. Cendes left without completing a PhD in 2017, and is now pursuing a PhD in the group of prof. Gaensler (Dunlap Institute).

**26. Mark Bryan**

2013–2018      promotor  
                   supervisor Dr. David Berge  
                   *Improved detection techniques for Cherenkov telescopes*  
 MSc from U. Leicester. Mr. Bryan left without completing a PhD in 2018.

**27. Riley Connors**

2013–2017      promotor  
                   supervisor Dr. Sera Markoff  
 30-Nov-2017    *Accretion and jets from stellar-mass to supermassive black holes*  
 MSc from U. Leicester. After PhD, postdoc at Caltech.

**28. Chris Elenbaas**

2013–2018      promotor  
                   supervisor Dr. Anna Watts  
 23-Feb-2018    *On magnetar burst mechanisms*  
 MSc from U. Amsterdam. After PhD, looking for job outside academia.

**29. Georgi Kokotanekov**

2013–2018      promotor  
                   supervisor Dr. Michael Wise  
 6-Jul-2018      *Radio studies of AGN feedback with LOFAR*  
 MSc from U. Amsterdam. After PhD, looking for job outside academia.

**30. Liliana Rivera Sandoval**

2013–2017      promotor, with Prof. Rudy Wijnands  
                   supervisor Drs. Maureen van den Berg & Rudy Wijnands  
 14-Dec-2017    *Multi-wavelength studies of compact binaries*  
 MSc from UNAM. After PhD, postdoc at Texas Tech.

**31. Smriti Vats**

2013–2018      promotor, with Prof. Rudy Wijnands  
                   supervisor Drs. Maureen van den Berg & Rudy Wijnands  
 26-Jun-2018    *Populations of faint X-ray binaries*  
 MSc from Christ University, Bangalore, India. After PhD, looking for job outside academia.

**32. Catia Vanessa de Jesus Silva**

2013–2018      promotor  
                   supervisor Drs. Phil Uttley & Elisa Costantini  
 25-Apr-2018    *A spectral-timing approach to the study of AGN outflows*  
 MSc from U. Amsterdam. After PhD, looking for job outside academia.

**33. Amruta Jaodand**

2014–            promotor  
                   supervisor Dr. Jason Hessels  
                   *Beamformed searches for transients with LOFAR*  
 MSc from Birla Institute of Technology & Science, Hyderabad.

**34. Rachel Simoni**

2014– promotor  
 supervisor Dr. Jacco Vink  
*TeV gamma-ray studies of the Milky Way*  
 MSc from U. Libre de Bruxelles.

**35. Chao Kang Tai**

2014– promotor, with Prof. Jeroen van Dongen  
 supervisor, with Prof. Jeroen van Dongen  
*Connections between the science and political philosophy of Anton Pannekoek*  
 MSc from Utrecht U.

**36. Leon Oostrum**

2015– promotor  
 supervisor Dr. Joeri van Leeuwen  
*The ALERT survey for fast radio bursts with WSRT*  
 MSc from U. Amsterdam.

**37. Nina Gusinskaya**

2015– promotor  
 supervisor Dr. Jason Hessels  
*Transitional millisecond pulsars and MeerKAT pulsar surveys*  
 MSc from St. Petersburg State U.

**38. María Arias**

2015– promotor  
 supervisor Dr. Jacco Vink  
*LOFAR studies of supernova remnants*  
 MSc from St. Petersburg State U.

**39. Mark Kuiack**

2015– promotor  
 supervisor, with Dr. Antonia Rowlinson  
*AARTFAAC all-sky radio transient searches*  
 MSc from Leiden U.

**40. Martijn de Vries**

2015– promotor  
 supervisor Dr. Michael Wise  
*A detailed X-ray and radio study of AGN feedback, in particular in Cygnus A*  
 MSc from U. Amsterdam.

**41. Vladimír Domček**

2016– promotor  
 supervisor Dr. Jacco Vink  
*X-ray studies of supernova remnants*  
 MSc from Masaryk U. Brno.



**42. Koushik Chatterjee**

2016– promotor  
 supervisor and promotor Prof. Sera Markoff  
*Numerical studies of magnetised jets*  
 MSc from Indian Institute of Technology Kharagpur.

**43. Matteo Lucchini**

2016– promotor  
 supervisor and promotor Prof. Sera Markoff  
*Semi-analytical studies of magnetised jets*  
 MSc from U. Milan.

**44. David Gardenier**

2016– promotor  
 supervisor Dr. Joeri van Leeuwen  
*Pulsars with ALERT*  
 MSc from U. Amsterdam.

**45. M. Deniz Aksulu**

2017– promotor  
 supervisor  
*Connecting GRB and AGN outflows*  
 MSc from Middle East Technical University, Istanbul.

**46. Kelly Gourdji**

2017– promotor  
 supervisor Dr. Antonia Rowlinson  
*LOFAR transients associated with gravitational-wave events*  
 MSc from U. of Amsterdam.

**47. Alexander Cooper**

2018– promotor  
 supervisor, with Dr. Antonia Rowlinson  
*Theory and detection of fast radio transients*  
 MSc from U. of Amsterdam.

**5.2 Postdoctoral fellows and software developers**

Postdoctoral fellows have a considerably greater measure of independence than PhD students, of course, and often work with multiple faculty; nonetheless, I involve them closely in the work of my group. I include software developers in the same category because the difference with postdocs is gradual: some software developers in my group have been PhD astronomers with a strong technical inclination who have evolved into software development, others have come from a computer science background directly into software development. I list those who were funded by my grants, or were fully in my group, or with whom joint work has led to papers or joint supervision of BSc or MSc theses.

**1. Dr. Rhaana Starling**

2003–2006 postdoctoral fellow in the EU Research Training network on gamma-ray bursts, working on observations and analysis of afterglows

*PhD from U. College London (MSSL); after Amsterdam, postdoctoral fellow and Royal Society Dorothy Hodgkin Fellow at U. Leicester, now (tenured) reader at U. Leicester.*

**2. Dr. Asaf Pe'er**

2004–2007 postdoctoral fellow working on theory of gamma-ray bursts and their afterglows.

*PhD from Weizmann Institute of Science; after Amsterdam, Riccardo Giacconi Fellow at Space Telescope Science Institute, postdoc at Harvard's Institute of Theory and Computation, now (tenured) lecturer at U. College Cork.*

**3. Dr. James Miller-Jones**

2004–2007 postdoctoral fellow working on radio observational high-energy astrophysics.

*PhD from Oxford; after Amsterdam, Jansky Fellow at NRAO Charlottesville, Curtin Research Fellow, now (tenured) senior lecturer at Curtin U., Perth.*

**4. Dr. Mieke Bouwhuis**

2004–2005 postdoctoral fellow working on detection of neutrinos from gamma-ray bursts.

*PhD from U. of Amsterdam (Nikhef); afterwards, tenured staff member in computing at Nikhef.*

**5. Dr. Atish Kamble**

2008–2010 postdoctoral fellow working on gamma-ray burst afterglows, especially in radio.

*PhD from Raman Research Institute; afterwards, postdoc at Center for Gravitation and Cosmology (U. Wisconsin) and now postdoc at Harvard's Institute of Theory and Computation.*

**6. Dr. Hanno Spreew**

2010–2010 postdoctoral fellow working on LOFAR data pipeline, especially its source finder.

*MSc from U. of Amsterdam, then worked in financial administration before PhD. Did his PhD as part-time (80%) position. After PhD, postdoc at KNMI (Netherlands meteorological institute) then postdoc at NKI (Netherlands cancer institute), Amsterdam, now senior software specialist, Netherlands e-Science Centre, Amsterdam.*

**7. Dr. Michael Wise**

2006–2008 Senior software developer/software group leader for LOFAR science pipelines (employed by ASTRON), as well as X-ray and radio astronomer.

*PhD from U. of Virginia, then software developer and leader at the Chandra X-ray Science Center; after Amsterdam, leader of the LOFAR software development at ASTRON, then tenured researcher at ASTRON, now head of the Astronomy Group at ASTRON.*

**8. Dr. Kenneth Anderson**

2006–2009 Software developer for LOFAR science pipelines.

*After Amsterdam, software specialist at NRC's Dominion Astrophysical Observatory, Penticton, Canada.*

**9. Joseph Masters MSc**

2006–2009 Software developer for LOFAR science pipelines.

*MSc from Boston College, IT specialist at Chandra X-ray Science Center; after Amsterdam, software engineer at NRAO Charlottesville (tenured).*

**10. Anastasia Alexov**

2009–2012 Software developer and Data Formats Group Leader, LOFAR.

*BSc in astronomy from Wesleyan, Scientific Systems Analyst/Programmer at ESO, Applications Developer at Caltech; after LOFAR, Senior Systems Software Engineer (tenured) at Space Telescope Science Institute.*

**11. Dr. Evert Rol**

2009–2011 Software developer, LOFAR.

*MSc from Free U. of Amsterdam. After PhD, postdocs at U. of Leicester and U. of Amsterdam, then scientific software developer at U. of Amsterdam and SRON, now research associate at Monash U.*

**12. Dr. Bart Scheers**

2011–now Postdoctoral Fellow in ultrafast databasing and software developer for LOFAR, at API and CWI.

*MSc from U. of Amsterdam, then worked in databasing for financial industry before PhD. Did his PhD as part-time (80%) position. After PhD, was postdoc and developer at U. of Amsterdam and CWI; now postdoc in database research at CWI and independent software consultant.*

**13. Dr. John Swinbank**

2006–2014 Postdoctoral Fellow in ultrafast databasing and software developer for LOFAR, at API and CWI.

*MPhys and DPhil from U. Oxford, then first postdoctoral fellow and later software developer and software group leader for the AARTFAAC and LOFAR pipelines; then software scientist for LSST at Princeton U.; now senior software manager for LSST at U. Washington, Seattle.*

**14. Dr. Peeyush Prasad**

2011–2013 (and 2015–now) Postdoctoral Fellow working on developing and calibrating the AARTFAAC radio imaging system.

*PhD from Raman Research Institute after career in engineering, then postdoc in my group, then postdoc at ASTRON working on the APERTIF system for Westerbork, then postdoc at U. Amsterdam. Now tenured quality engineer at ASML, Eindhoven, Netherlands.*

**15. Dr. Antonia Rowlinson**

2011–2014 Postdoctoral Fellow working on commissioning and early science with LOFAR, and gamma-ray bursts.

*PhD from U. Leicester; after Amsterdam, postdoctoral fellow in radio astronomy at CSIRO, Sydney. Now tenure-track assistant professor at U. Amsterdam and tenure-track researcher at ASTRON.*

**16. Dr. Alexander van der Horst**

2011–2014 Postdoctoral Fellow working on commissioning and early science with LOFAR, and gamma-ray bursts.

*PhD from U. Amsterdam, then NASA Postdoctoral Fellow at NSSTC, Huntsville, AL, USA; then postdoc in my group. Now tenure-track assistant professor at George Washington U., Washington, DC.*

**17. Folkert Huizinga MSc**

2012–2017 Software Developer/Scientific Programmer for the AARTFAAC project.

*MSc in Artificial Intelligence from U. Amsterdam, various programmer positions in industry, then scientific software developer in my group. Now self-employed in start-up company applying AI methods to detection problems in industry.*

**18. Gijs Molenaar MSc**

2012–2017 Software Developer/Scientific Programmer for the AARTFAAC project.

*MSc in Artificial Intelligence from U. Amsterdam, various scientific programmer positions in industry, then in my group; now also parttime scientific software engineer for SKA South Africa and PhD candidate with Prof. Oleg Smirnov at Rhodes University. Now self-employed freelance software developer (parttime) and PhD candidate at Rhodes U.*

**19. Dr. Aleksandar Shulevski**

2018– Postdoc for calibration and diffuse emission imaging with AARTFAAC.

*PhD from U. Groningen, then support scientist for LOFAR at ASTRON.*

## 6 Publications

Publications are in reverse chronological order, in five categories: (5.1) Reviews, including writeups of invited reviews at conferences and invited lectures at major meetings (to be complete in this section with all publications, this repeats the reviews from sect. 4 that appeared in print); (5.2) Books, authored or edited, and book chapters; (5.3) Refereed publications, including refereed conference proceedings; (5.4) Non-refereed publication, subdivided into (5.4.1) conference proceedings and other non-refereed publications and (5.4.2) abstracts, telegrams and circulars; (5.5) Popular publications.

### 6.1 Reviews

- [1] Stappers, B., Fender, R.P., & Wijers, R.A.M.J. 2009, *The LOFAR Transients Key Science Project*, 8th International e-VLBI Workshop, p.21 (published online)
- [2] Wijers, R.A.M.J. 2008, *Gamma Ray Bursts - where are we going?*, Proceedings of the 7th INTEGRAL Workshop, September 2008, Copenhagen, p.2 (published online)
- [3] Wells, A., Wijers, R. A. M. J., & Rees, M. J. 2007, *Introduction: recent developments in the study of gamma-ray bursts*, Royal Society of London Philosophical Transactions Series A, 365, 1111-1118
- [4] Wijers, R.A.M.J. 2003, *Some Cosmological Implications of Gamma-ray Bursts*, in E.P.J. van den Heuvel, L. Kaper, E. Rol, & R.A.M.J. Wijers (eds.) *Jan van Paradijs Memorial Symposium*, Amsterdam, June 2001, APS Conf. Proc., 308, 387
- [5] Wijers, R.A.M.J. 2003, *Signs and Consequences of a Supernova - Gamma-Ray Burst Association*, in G.R. Ricker & R.K. Vanderspek (eds.) *Gamma-Ray Burst and Afterglow Astronomy 2001*, in proceedings of the meeting in Woods Hole, MA, November 2001, AIP Conf. Proc. 662, (AIP:Melville, NY), 396–402
- [6] Wijers, R.A.M.J. 2002, *Gamma-ray bursts*, The Century of Space Science, Volume I, 499
- [7] Wijers, R.A.M.J. 2001, *The GRB-afterglow transition: Black holes, bullets, and beams*, in H.Y. Chang, C.H. Lee, M. Rho, I. Yi (eds.) *Explosive Phenomena in Astrophysical Compact Objects*, proc. of the first KIAS Astrophysics Workshop, Seoul, June 2000. AIP Conf. Proc. 556, 268–275
- [8] Wijers, R.A.M.J. 2001, *Strange Afterglows from Embedded GRBs: Reconciling Hypernovae with Slow Decays*, in E. Costa, F. Frontera, & J. Hjorth (eds.) *Gamma-Ray Bursts in the Afterglow Era*, Rome, October 2000, (Springer: Berlin), 306–311
- [9] van Paradijs, J., Kouveliotou, C., & Wijers, R.A.M.J. 2000, *Gamma-Ray Burst Afterglows*, Annu. Rev. Astron. Astrophys., 38, 379-425
- [10] Brown, G.E., Lee, C.-H., Wijers, R.A.M.J., & Bethe, H.A. 2000, *Evolution of black holes in the galaxy*, in Brown, G., Kamionkowski, M., Turner, M.S. (eds.) *David Schramm's Universe. Special volume dedicated to the memory of David Norman Schramm, 1945–1997* Phys. Rep., 333, 471–504
- [11] Wijers, R.A.M.J. 1999, *Gamma-Ray Bursts: Perspectives and Prospects*, in J. Poutanen and R. Svensson (eds.) *Gamma-Ray Bursts: The First Three Minutes*, ASP Conf. Series vol. 190 (ASP:San Francisco), 297–305
- [12] Wijers, R.A.M.J. 1999, *Gamma-ray bursts at high redshift,  $2 < z < 5$* , in S.S. Holt and E.P. Smith (eds.) *After the Dark Ages: When Galaxies Were Young (The Universe at  $2 < z < 5$ )*, proc. of ninth Astrophysics Conference, College Park, MD, October 1998, AIP Conf. Proc. 470, 380–387
- [13] Wijers, R.A.M.J. 1998, *Gamma-ray bursts near the horizon*, in C. Meegan, R. Preece, and T. Koshut (eds.) *Gamma-ray Bursts. 4<sup>th</sup> Huntsville Symposium*, AIP Conf. Proc. 428 (New York:AIP), 803–807 (refereed)

- [14] Wijers, R.A.M.J. 1996, *Black Holes in Binary Stars*, in R.A.M.J. Wijers, M.B. Davies and C.A. Tout (eds.) *Evolutionary Processes in Binary Stars*, proc. of the NATO ASI, Cambridge, UK, 10–21 July 1995, 327–344
- [15] Wijers, R.A.M.J. 1996, *Diagnosing Structure and Evolution of Clusters with Neutron Star Binaries*, in P. Hut and J. Makino (eds.) *Dynamical Evolution of Star Clusters — Confrontation of Theory and Observations*, proc. of IAU Symp. 174, Tokyo, Japan, 22–25 August 1995, 203–212

## 6.2 Books and book chapters

- [1] Kouveliotou, C., Wijers, R. A. M. J., & Woosley, S.E (eds.) 2012, *Gamma-Ray Bursts*, Cambridge University Press
- [2] Mészáros, P. & Wijers, R. A. M. J. 2012, Basic Gamma-Ray Burst Afterglows, in *Gamma-Ray Bursts*, (eds. Kouveliotou, Wijers, & Woosley), Cambridge University Press
- [3] Wijers, R. A. M. J., van der Klis, M., & Kaper, L. (eds.), 2010, *A Life with Stars*, New Astronomy Reviews
- [4] van den Heuvel, E. P. J., Wijers, R. A. M. J., & in ‘t Zand, J. J. M. (eds.) 2004, *BeppoSAX. Proceedings of the BeppoSAX Conference “The Restless High-Energy Universe”*, Nuclear Physics B Proceedings Supplements
- [5] Wijers, R. A. M. J., Davies, M. B., & Tout, C. A. (eds.) 1996, *Evolutionary processes in binary stars*, NATO ASI Proc. 477

## 6.3 Refereed publications

- [1] Lyman, J.D. et al. 2018, *The optical afterglow of the short gamma-ray burst associated with GW170817*, Nat Astron., DOI link
- [2] Arias, M. et al. 2018, *Low-frequency radio absorption in Cassiopeia A*, A&A, 612, A110
- [3] Carbone, D. et al. 2018, *PySE: Software for extracting sources from radio images*, Astron. & Comput., 23, 92
- [4] Cendes, Y. et al. 2018, *RFI flagging implications for short-duration transients*, Astron. & Comput., 23, 103
- [5] Broderick, J.W. et al. 2018, *LOFAR 150-MHz observations of SS433 and W50*, MNRAS, 475, 5360
- [6] Wijers, R.A.M.J. 2018, *A chirp, a roar and a whisper*, Nat 554, 178
- [7] Anderson, G.E. et al. 2018, *The Arcminute Microkelvin Imager catalogue of gamma-ray burst afterglows at 15.7 GHz*, MNRAS, 473, 1512
- [8] Covino, S. et al. 2017, *The unpolarized macronova associated with the gravitational wave event GW170817*, Nat Astron., 1, 791
- [9] Levan, A.J. et al. 2017, *The environment of the binary neutron star merger GW170817*, ApJ, 848, L28
- [10] Tanvir, N.R., et al. 2017, *The emergence of a Lanthanide-rich kilonova following the merger of two neutron stars*, ApJ, 848, L27
- [11] Abbott, B.P., et al. 2017, *Multi-messenger observations of a binary neutron star merger*, ApJ, 848, L12
- [12] Carbone, D., Van der Horst, A.J., Wijers, R.A.M.J., & Rowlinson, A. 2017, *Calculating transient rates from surveys*, MNRAS, 465, 4106-4117

- [13] Coughlan, C.P., et al. 2017, *LOFAR detection of the low-mass young star T Tau at 149 MHz*, ApJ, 834, 206
- [14] Abbott, B.P., et al. 2016, *Localization and broad-band followup of the gravitational-wave transient GW150914*, ApJ, 826, :L13
- [15] Abbott, B.P., et al. 2016, *Supplement: "Localization and broad-band followup of the gravitational-wave transient GW150914"*, ApJ Supp., 225:8
- [16] Prasad, P., et al. 2016, *The AARTFAAC all-sky monitor: System design and implementation*, J. Astron. Instrum., 5, 1641008
- [17] Buitink, S., et al. 2016, *Corrigendum: A large light-mass component of cosmic rays at  $10^{17}$ - $10^{17.5}$  electronvolts from radio observations*, Nat, 537, 572
- [18] Carbone, D., et al. 2016, *New methods to constrain the radio transient rate: results from a survey of four fields with LOFAR*, MNRAS, 459, 3161-3174
- [19] Broderick, J. W., et al. 2016, *Low-radio-frequency eclipses of the redback pulsar J2215+5135 observed in the image plane with LOFAR*, MNRAS, 459, 2681-2689
- [20] van Putten, T., Watts, A. L., Baring, M. G., & Wijers, R. A. M. J. 2016, *Radiative transfer simulations of magnetar flare beaming*, MNRAS, 461, 877-891
- [21] Broderick, J. W., et al. 2016, *Low-radio-frequency eclipses of the redback pulsar J2215+5135 observed in the image plane with LOFAR*, MNRAS, 459, 2681-2689
- [22] Buitink, S., et al. 2016, *A large light-mass component of cosmic rays at  $10^{17}$ - $10^{17.5}$  electronvolts from radio observations*, Nat, 531, 70-73
- [23] Stewart, A. J., et al. 2016, *LOFAR MSSS: detection of a low-frequency radio transient in 400 h of monitoring of the North Celestial Pole*, MNRAS, 456, 2321-2342
- [24] Girard, J. N., et al. 2016, *Imaging Jupiter's radiation belts down to 127 MHz with LOFAR*, A&A, 587, A3
- [25] Marcote, B., et al. 2016, *Orbital and superorbital variability of LS I +61 303 at low radio frequencies with GMRT and LOFAR*, MNRAS, 456, 1791-1802
- [26] Pilia, M., et al. 2016, *Wide-band, low-frequency pulse profiles of 100 radio pulsars with LOFAR*, A&A, 586, A92
- [27] Kondratiev, V. I., et al. 2016, *A LOFAR census of millisecond pulsars*, A&A, 585, A128
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## 6.5 Popular publications

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- [2] Wijers, R. A. M. J. December 2008, *Gammaflitsen*, Spui 28, p.18–19
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## 7 Media and outreach events

Popular articles are listed in sect. 6.5. Events are in reverse chronological order, in categories: (6.1) Popularising activities, split into, (6.1.1) popular lectures and (6.1.2) other activities; (6.2) Written media (papers, web magazines, etc), split into (6.2.1) items about own work and (6.2.2) items about other work; (6.3) Radio, television, and streaming media, split into (6.3.1) items about own work and (6.3.2) items about other work. All lists are in reverse chronological order.

These lists are no doubt incomplete: when media pay attention to work of which one is a co-author, one will quite often not be made aware of it since journalists often write based on papers and press releases, without consulting the researcher. Also my record of popular lectures before my return to the Netherlands in 2002 was too spotty to include.

### 7.1 Popularising activities

#### 7.1.1 Popular lectures

- [1] *A century of astronomy on the Amstel – With a recent example*, UvA alumni chapter, Washington, DC, 2018 May 23
- [2] *De waarheid in de sterren?*, Studium Generale Maastricht, 2018 April 12
- [3] *Tot aan de sterren en daar voorbij*, College Club, Amsterdam, 2017 December 13
- [4] *Gouden bergen in het Heelal, en de draken die ze bewaken*, Probusclub Roosendaal lustrumlezing, 2017 November 28
- [5] *Over tijd, ruimte en zwaartekracht*, College Club, Amsterdam, 2017 November 22
- [6] *The not so quiet night sky – Unexpected extremes*, Tsinghua University student popular lecture, Beijing, 2017 November 10
- [7] *Travelling through space and time*, University of Amsterdam 385th anniversary lecture, Schiphol Airport, 2017 September 27
- [8] *Zwarte gaten nader belicht*, lecture for amateur astronomy observatory 'Saturnus', Heerhugowaard, 2017 May 12
- [9] *Zwarte gaten nader belicht*, lecture for VGSW student society, Wageningen University, 2017 March 7
- [10] *Zwarte gaten nader belicht*, astronomy open night lecture, University of Amsterdam, 2017 February 24
- [11] *Zwarte gaten nader belicht*, lecture at Ashram College (secondary school), Alphen aan den Rijn, 2017 February 1
- [12] *Het licht in den beginne*, lecture for Fresh Academy, Utrecht, 2016 November 18
- [13] *Monsters aan de hemel: Onverwachte extremen*, lecture for 'Nacht van de nacht', Fort Vechten, 2016 October 29
- [14] *A lapsed Catholic's journey in astronomy*, lecture and debate at Veritas student society, Middelburg, 2016 February 22
- [15] *Tales from the Heavens: Research at the Anton Pannekoek Institute*, Lecture at Industriële Groote Club, Amsterdam, 2015 September 25
- [16] *De Oerknal: Het begin van alles*, Lecture for 'Academie voor Nutteloze Kennis', Amsterdam, 2015 March 30
- [17] *First Light*, Lecture for Amsterdam Excellence Scholarship Symposium, Amsterdam, 2015 March 13
- [18] *De Oerknal: Het begin van alles*, Astronomy open night lecture, University of Amsterdam, 2014 December 16

- [19] *De Oerkrnal: Het begin van alles*, Astronomy open night lecture, University of Amsterdam, 2014 December 16
- [20] *Een knallend Heelal: Onverwachte extremen*, Lecture for Arago Society, University of Twente, 2014 December 2
- [21] *Ruimtetijdreizen in het heelal*, Lecture for special summer school on sailing ship 'De Wylde Swan', 2014 May 23
- [22] *The first light*, Honours student lecture at Utrecht University College, 2014 March 26
- [23] *Een knallend heelal*, Astronomy open night lecture, University of Amsterdam, 2013 October 25
- [24] *Een knallend heelal*, 40th anniversary lecture of high school astronomy club, Norbertuscollege, Roosendaal, 2013 September 27
- [25] *Vallen en opstaan of vallen en vliegen?*, UvA alumni children's lecture, with astronaut André Kuipers, 2013 June 1
- [26] *Nieuws uit de sterrenkunde: Tsjeljabinsk en ander geweld*, University of Amsterdam, 2013 March 22
- [27] *Monsters aan de hemel: Onverwachte wetenschap*, Artis Planetarium, Amsterdam, 2012 November 6
- [28] *Gammaflitsen en andere explosies*, Probusclub Roosendaal, 2012 October 23
- [29] *Gaan sterren ook naar de hemel?*, Museumjeugduniversiteit, Rotterdam, 2012 April 15
- [30] *Een bizar heelal: Steeds snellere uitdijing*, Viva Fysica, Amsterdam, 27 January 2012
- [31] *Duistere materie en energie: Evolutie in een vreemd heelal*, Zaanlands Lyceum, Zaandam, 2011 December 19
- [32] *Het heelal en onze plaats daarin*, Studium Generale, Universiteit Maastricht, 2011 November 23
- [33] *Het heelal anders bezien: Nieuwe en extreme vergezichten*, Probusclub Roosendaal, 2010 December 28
- [34] *Gammaflitsen: Extreem nieuws uit de oertijd*, Jong Diligentialezing, Diligentia, Den Haag, 2010 October 11
- [35] *Het eetbare heelal*, Lectures at elementary school 'De Boomladder', i Heerhugowaard, 2010 April 13
- [36] *AARTFAAC: Extreme astrofysica door 24/7 radiohemelcameratoezicht*, Lecture at Dies FNWI, University of Amsterdam, 2010 March 25
- [37] *Gammaflitsen: Extreme blikken terug in de tijd*, Studium Generale, University of Eindhoven, 2010 February 10
- [38] *Het heelal anders bezien: Ongewone en blikverruimende telescopen*, Studium Generale, Universiteit Maastricht, 2010 January 14
- [39] *Kosmologie en duistere materie*, Studium Generale, Universiteit Maastricht, 2009 February 5
- [40] *NEMO kinderlezing 'Waarom draait de aarde rond?'*, Amsterdam, 2009 January 18
- [41] *Gammaflitsen*, Academische Club, UvA, 2008 June 19
- [42] *Het verre heelal*, voor basisschoolleraars beta-stimuleringsplatform, 2008 January 30
- [43] *Duistere materie*, UvA alumnidag, 2007 June 6
- [44] *Gammaflitsen*, Artis, 2007 April 27
- [45] *GRBs in het verre heelal*, op symposium voor basisschoolleraars, Artis, 2006 September 27
- [46] *Gammaflitsen van heel ver*, KNVWS Venlo, 2006 May 12
- [47] *Gammaflitsen van heel ver*, KNVWS Venlo, 2006 April 28
- [48] *Korte gammaflitsen*, Viva Fysica, Amsterdam, 2006 January 20
- [49] *Gammaflitsen in het nieuws*, Norbertuscollege Roosendaal, 2006 January 13
- [50] *Kosmische straling UvA- $\beta$ festival*, NEMO, 2005 December 5

- [51] *Gammaflitsen met Swift*, KNVWS Delft, 2005 October 18
- [52] Kinderlezing *Waarom draait de aarde rond?*, Teylers museum Haarlem, 2005 May 22
- [53] *Het einde van het heelal?*, op symposium ‘Het einde van de fysica in zicht?’, Nijmegen, 2005 May 11
- [54] *Gammaflitsen: De grootste knallen in de natuur*, JWG symposium, Leiden, 2005 January 15
- [55] *Gammaflitsen*, lezing, NVWS vereniging ‘Astra Alteria’, Putten, 2003 September
- [56] *NEMO kinderlezing ‘Waarom draait de aarde rond?’*, Amsterdam, 2003 June
- [57] *Donkere materie en zwarte gaten*, lezing, Artis, 2002 December 9

### 7.1.2 Other popularising activities

- [1] *How old is the Universe?*; Recording of MOOC, released in 2017
- [2] *Hoe oud is het Heelal?*, five 15-minute internet lectures on astronomy on [www.universiteitvannederland.nl](http://www.universiteitvannederland.nl), recorded on 2015 June 3
- [3] *Waarom zien aliens holbewoners als ze naar de aarde kijken?*, five 15-minute internet lectures on astronomy on [www.universiteitvannederland.nl](http://www.universiteitvannederland.nl), recorded on opening night of Universiteit van Nederland, with Minister for Science and Education, 2013 October 8
- [4] Jury member, Techniektoernooi, Alkmaar, 2012 March
- [5] *Neutrino’s sneller dan het licht?*, betabreak Faculty of Science Student discussion forum, 2011 October 5
- [6] Jury chair, Techniektoernooi, Alkmaar, 2011 March
- [7] Guest teacher Astronomy, Cygnusgymnasium Amsterdam, 2010 November 4
- [8] *Cameratoezicht op hemelmonsters*, workshop at ESERO onderwijsconferentie, Maarssen, 2010 November 3
- [9] Jury member, Techniektoernooi, Arnhem, 2010 June 3
- [10] *Stand van de wetenschap*, Lecture/discussion forum at Spui 25, Amsterdam, 2010 May 10
- [11] *Het extreme heelal*, Lecture/tour at photo museum Huis Marseille, 2010 April 25
- [12] Jury member, Techniektoernooi, Alkmaar, 2010 March 18
- [13] Jury member, Techniektoernooi, Arnhem, 2009 June 4
- [14] Jury chair, Techniektoernooi, Alkmaar, 2009 April 18
- [15] Guest teacher Astronomy, Cygnusgymnasium Amsterdam, 2009 January 22
- [16] Forum discussion *Honderd jaar na Einstein*, UvA alumni day, 2005 June 12
- [17] Jury member, Techniektoernooi, Land van Ooit, 2005 June 10
- [18] Finalist, Academische Jaarprijs NRC, 2005/6 (with a team of MSc students, project named ‘Einsteinflits’)

## 7.2 Written media

### 7.2.1 About own work

- [1] *Noordelijke radiotelescoop ziet eerste pulsars*, Volkskrant, 2010 April 22
- [2] *Kort: Oud sterlicht biedt zicht op prille jeugd van heelal*, Volkskrant, 2009 October 31
- [3] *Oercreet uit het vroege heelal*, Kennislink, 2009 October 30
- [4] *Verre flits toont kosmische middeleeuwen*, Volkskrant, 2009 October 29
- [5] *Astronomen zien tot nu toe verste object in heelal*, NRC, 2009 April 28

- [6] *Nieuwe gammaflits is verste object ooit ontdekt*, Kennislink, 2009 April 30
- [7] *Sterrenkijker als tijdmaschine*, Interview/artikel, BN/De Stem, 2009 January 31
- [8] *Swift ziet gammaflits op 12,8 miljard lichtjaar afstand*, Volkskrant, 2008 September 20
- [9] *Westerbork meet radiostraling van recente record-gammaflits*, Volkskrant, 2008 September 11
- [10] *Supernova 2008D was ‘zwakke’ gammaflits*, Volkskrant, 2008 July 24
- [11] *Hubble fotografeert nagloeier van extreem heldere gammaflits*, Volkskrant, 2008 April 10
- [12] *Gammaflits brak woensdag alle records*, Volkskrant, 2008 March 20
- [13] *Dubbel beeld van gammaflits*, Kennislink, 2007 September 5
- [14] *Recordsnelle waarneming van gammaflits*, Volkskrant, 2007 March 30
- [15] *Gammaflitsen gaan op andere plekken af dan supernovae*, Kennislink, 2006 May 11
- [16] *Waterstofmoleculen aan rand heelal*, Kennislink, 2006 March 13
- [17] *Team Wijers: Wetenschap? Meedoen is het leukst!*, NRC Science Supplement, related to ‘Academische Jaarprijs’, 2006
- [18] *Korte gammaflitsen thuisgebracht*, Kennislink, 2005 December 16
- [19] *Een verklaring voor de korte gammaflits*, Het Parool, 2005 October 6
- [20] *Verste gammaflits ooit*, Kennislink, 2005 September 12
- [21] *Swift ziet geboorte zwart gat*, Kennislink, 2005 May 10
- [22] *Sterexplosie verblindt aarde*, Volkskrant, 2005 February 19
- [23] *Sterkste gammaflits ooit*, Kennislink, 2005 February 18
- [24] *Swift-satelliet gaat de gammaflits lik-op-stuk geven*, Kennislink, 2004 November 27
- [25] *Kinderlezing ‘Waarom draait de aarde rond?’*, Het Parool, 2003 June 23

### 7.2.2 About other work

- [1] *Tallose verklaringen voor de (te) snelle neutrino’s*, NRC, 2011 October 8
- [2] *Terughoudendheid over ‘Kaboem-verhaal’ neutrino’s*, FoliaWeb, [www.foliaweb.nl/wetenschap/terughoudendheid-over-'kaboem-vehaal'-neutrino's/](http://www.foliaweb.nl/wetenschap/terughoudendheid-over-'kaboem-vehaal'-neutrino's/) 2011 October 6
- [3] *Nobelprijs voor sneller uitdijen heelal*, Volkskrant, 2011 October 5
- [4] *Een klap voor theoretici*, Volkskrant, 2009 November 7
- [5] *De ster van Bethlehem*, interview, UvA web news, 2008

## 7.3 Radio, TV, and streaming media

### 7.3.1 About own work

- [1] Interview on Radio Live Swammerdam FM, Amsterdam, 2010 October 17
- [2] *Professor houdt hemel in de gaten*, TV-interview, [www.at5.nl/artikelen/36657/professor-houdt-hemel-in-de-gaten](http://www.at5.nl/artikelen/36657/professor-houdt-hemel-in-de-gaten), AT5, 2010 March 4
- [3] *De oudste gammaflits*, radio interview FunX radio, 2009 October 30
- [4] *De oudste gammaflits*, TV-interview, RTL Nieuws, 2009 October 29
- [5] *De oudste gammaflits*, radio interview BNR Nieuwsradio, 2009 October 28
- [6] *De oudste gammaflits*, radio interview Radio 1 nieuws, 2009 October 28
- [7] *De oudste gammaflits*, radio interview Hoe?Zo! radio 5, 2009 October 28
- [8] Interview ‘De Buren’, for the International Year of Astronomy, Brussels, 2009 April 16

- [9] Movie in series *De fascinatie*, on own research, for UvA website and TELEAC TV, 2006. [flashmedia.uva.nl/avc/uvatv/fascinatie/r\\_w.html](http://flashmedia.uva.nl/avc/uvatv/fascinatie/r_w.html)
- [10] Interview on Radio Ping-Pong (local A'dam channel), 2005 December 22
- [11] Interview on Noorderlicht Nieuws Radio, 2005 October 6
- [12] Interview on Noorderlicht Nieuws Radio, 2005 January 12

### **7.3.2 About other work**

- [1] Interviews on National evening news (NOS and RTL4 channels) on the possible BICEP discovery of CMB polarization, 2014 March 17
- [2] Hoe?Zo! Radio kettingvraag *Wat gebeurt er met zwarte gaten aan het eind van het heelal*, 2006 February 17