

CURRICULUM VITAE

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INTERESTS (IN NO PARTICULAR ORDER)

Stellar Physics, Stellar evolution, Stellar evolution under extreme conditions
Gravitational Wave Astrophysics, Astrophysics of their progenitors
Stellar Transients, Progenitors of Supernovae and Gamma-ray bursts
Interacting binary systems, Mass transfer, Accretion, Binary mergers, Common envelope evolution
Nucleosynthesis, Abundances, Chemical Enrichment
Stellar Interiors, Internal mixing processes, Asteroseismology
Spectral synthesis, Radiative and Mechanical Stellar feedback Radiative
Stellar populations (nearby and at high redshift)
Applied statistics and machine learning for inference and population modelling
Diversity in Academia, Participation of Women in Theoretical and Computational Astrophysics

RESEARCH POSITIONS

2019 – present **Associate Professor**, Harvard University, Cambridge, MA.
2018 – present **Associate Professor**, University of Amsterdam, NL. Part time of Aug 1st, 2019

- PI of VIDI and Aspasia grant BinWaves (2018-2023)
- PI of the ERC starting grant BinCosmos (2017-2019)

2014 – 2018 **MacGillavry Assistant Professor**, University of Amsterdam, NL

- Marie Curie Incoming Fellowship (2015-2017)

2013 – 2014 **Einstein & Princeton Lyman Spitzer Fellow** (NASA prize fellowship, independent research)
California Institute for Technology & Carnegie Observatories, Pasadena, CA, USA

2010 – 2013 **Hubble postdoctoral Fellow** (NASA prize fellowship, independent research)
Space Telescope Science Institute, Baltimore, MD, USA

2010 **Argelander Postdoctoral Fellow**
Institute for Astronomy, University of Bonn, Germany

2006-2010 **PhD Student**, Utrecht University, The Netherlands

2004 **IAC summer internship**, Instituto d'Astrofísica de Canarias, Spain

VISTING RESEARCH POSITIONS

2019 – present **Visiting Professor**, University of Amsterdam, NL.
2017, 2016 **Short term visitor**, Kavli Institute for Theoretical Physics, Santa Barbara, CA, USA
2015 **Short term visitor**, Center for Astrophysics, Harvard University, Cambridge, MA, USA
2013 – 2014 **Visiting Associate**, California Institute for Technology (Caltech), Pasadena, CA, USA
2010 – 2013 **Visiting Associate**, Johns Hopkins University, Baltimore, MD, USA

EDUCATION

2006-2010	PhD, Astrophysics, Utrecht University, NL, Awarded April 12, 2010 Thesis: Stellar evolution at low metallicity, Supervisor: Dr. O.R. Pols	Cum Laude
2003-2005	MSc, Astrophysics, Utrecht University, NL, Awarded Oct. 24 2005	Cum Laude
2000-2004	BSc, Mathematics, Utrecht University, NL, Awarded Oct. 31 2005	Cum Laude
2000-2003	BSc, Physics, Utrecht University, NL, Awarded Oct. 24 2005	Cum Laude

SELECTED AWARDS, HONORS, PRIZES

2019	Pastoor Schmeits Prize link	
2019	Elected as Member of the Young Scientific Academy , the Netherlands	
2018	Aspasia Grant Laureate , awarded by Netherlands Science Foundation (NWO)	100 k€
2017	Vidi laureate , awarded by Netherlands Science Foundation (NWO)	800 k€
2017	MERAC Prize in Theoretical Astrophysics 2017 , European Astronomical Society	
2017	Beller Lectureship , awarded by American Physical Society	
2016	ERC starting grant , awarded by European Research Council	1,900 k€
2016	Nominated for New Scientist Science Talent 2016 , Dutch and Flemish Universities	
2015	Top grant laureate , Netherlands Science Foundation (NWO)	220 k€
2015	Marie Curie Fellowship , awarded by European Council	166 k€
2014	MacGillavry Fellowship , Amsterdam Univ. (estimated)	450 k€
2013	Princeton Lyman J. Spitzer Fellowship , awarded by Princeton University	180 k€
2013	Einstein Fellowship , awarded by NASA	266 k€
2010	Hubble Fellowship , awarded by NASA	260 k€
2004	IAC summer Fellowship , Instituto d'Astrofiscia de Canarias, Spain	
2000	International Physics Olympiad, Honorable Mention , Leicester UK	

SELECTED PUBLICATIONS AND CITATIONS STATS

Papers with > 100 citations:	14	Total number of refereed papers	~ 100
Papers with > 50 citations:	32	Total number of publications	~ 180
Total number of citations:	>5719	Hirsch factor	37

Citations based on the NASA/ADS database, updated Aug 8, 2019.

Selection of highest cited papers as 1st, 2nd or 3rd author (abbreviated titles)

≥ 728 citations	Sana & de Mink et al. (2012), Science 337, 444 “ Binary interaction dominates evolution of massive stars ”
≥ 399 citations	Brott & de Mink et al. (2011), A&A 530, 115 “ Grids of Rotating massive main-sequence stars ”
≥ 293 citations	De Mink et al. (2009) A&A, 507, 1 “ Massive binaries as source of abundance anomalies in glob. clusters ”
≥ 205 citations	Sana, de Koter & de Mink et al. 2013, A&A 550, 107, “ Multiplicity of the Tarantula O-type stars ”
≥ 205 citation	De Mink et al. (2013) ApJ 764, 166, “ Rotation Rates of Massive Stars: The Role of Binary Interaction ”
≥ 185 citations	Bastian, Lamers & de Mink et al. MNRAS, 436, 2398, “ Early disc accretion & glob. cluster abundances ”
≥ 176 citation	Mandel & de Mink (2016) MNRAS, 458, “ Merging binary BHs through chem. homogeneous evol. ”
≥ 146 citations	De Mink et al. (2009) A&A 497, 243, “ Rotational mixing in detached short-period massive binaries. ”
≥ 145 citations	De Mink et al. (2014) ApJ, 782, 7, “ Incidence of Mergers and Mass Gainers among Massive Stars ”
≥ 124 citations	Bastian & de Mink (2009) MNRAS, 398, 11, “ Effect of rotation on colour-magnitude diagrams ”
≥ 117 citations	De Mink & Mandel (2016), MNRAS, 460, “ LIGO binary black holes through chem. hom. channel ”
≥ 105 citations	Glebbeek, Gaburov, de Mink et al. A&A, “ Evolution of runaway stellar collision products ”
≥ 82 citations	De Mink & Belczynski (2015), ApJ, 814, 58, “ Merger Rates of Double Neutron Stars and Black Holes ”
≥ 80 citations	De Mink et al (2007), A&A, 469,1181 “ Efficiency of mass transfer in massive close binaries. ”
≥ 67 citations	Claeys & de Mink et al. (2011), A&A, 528, 131, “ Binary progenitor models of type IIb supernovae ”

Selection of recent papers (abbreviated titles)

≥	<u>Zapartas*</u> & de Mink et al. (2019) A&A “ Diverse lives of the progenitors of core collapse supernovae ”
≥	Vigna-Gomez, <u>Justham</u> et al. w/ deMink “ Stellar mergers as the progenitors of H-rich PISNe ”
≥	<u>Renzo*</u> & de Mink et al. (2019) MNRAS letters “ Gaia/HST Astrometry of a 150 Msun runaway star ”
≥	<u>Renzo*</u> , <u>Zapartas*</u> & de Mink et al. (2018), A&A “ Massive runaway and walkaway stars ”
> 24 citations	<u>Götberg*</u> & de Mink et al. (2018) A&A “ Unifying Subdwarfs and Wolf-Rayet stars: spectral models ”
≥	<u>Schootemeijer*</u> , <u>Götberg*</u> , de Mink et al. (2018) “ Clues about the scarcity of stripped envelope stars ”
≥ 55 citations	<u>Zapartas*</u> & de Mink et al. (2017b) A&A “ Delay-time distribution of core-collapse supernovae ”
≥ 39 citations	<u>Götberg*</u> , de Mink & Groh (2017) A&A “ Ionizing spectra stripped binary stars ”
≥ 33 citations	De Mink & King (2017) ApJ “ Electromagnetic Signals Following Stellar-mass Black Hole Mergers ”
≥ 26 citations	<u>Renzo*</u> et al. (2017) A&A “ Effects of wind mass loss algorithms on the evolution of massive stars ”
≥ 13 citations	<u>Zapartas*</u> & de Mink et al. (2017a) A&A “ Companions for Stripped-envelope Supernovae ”
≥	<u>Broekgaarden*</u> , <u>Justham</u> , de Mink et al. (2019) subm “ STROOPWAFEL: Simulating rare events ”
≥	<u>Götberg*</u> & de Mink et al. (2019) subm. “ Impact of stripped stars on Integrated spectra ”

*Marks PhD students I supervised. Members of my team are underlined.

INVITED AND CONTRIBUTED TALKS (SELECTION, FOR COLLOQUIA SEE BELOW)

2019 Jul. 1	Invited Plenary Talk , Royal Astronomical Society National Astronomy Meeting, UK
2019 May	Prize lecture Pastoor Schmeits prize , NAC, NL. (Cancelled due to illness)
2019 May	Invited Review , Massive Binary Stars and Common Envelope Evolution, CCA, NY.
2019 April	Invited review , Spring symposium Death of Massive Stars, Baltimore, Md, USA
2018 Sept.	Invited Plenary Talk , Physics of stellar feedback, Leibniz Inst. for Astrop. Potsdam, Germany
2018 July	Invited Talk , Diversity in Astronomy, Dark Cosmology Center, Copenhagen, Denmark
2018 July	Invited Review , Unsolved Problems in Astrophysics and Cosmology, Budapest, Hungary
2018, June	Invited Review , Ultra Luminous X-ray sources, Madrid, Spain
2018 May	Invited Review , Supernovae and their interaction with the ISM, Stockholm, Sweden
2018, May	Invited Talk , Sackler Conference on Gravitational waves, Cambridge, MA, USA
2018, April 5	Invited Talk , EWASS Gamma-ray bursts, UK
2018, March 21	Plenary Talk , Finish Physics Days, Turku, Finland,
2018, Jan 23	Invited Talk , Physics days, Veldhoven, The Netherlands
2017 Nov 21	Invited Talk , Flatiron meeting on binary neutron star mergers, NY, USA
2017 Sept, 11	Invited Review , Progenitors of Gravitational Wave sources, Royal Society, UK
2017 June, 28	Invited Review , Gravitational wave Physics, Paris, France
2017 June, 27	MERAC prize lecture, Invited talk , European Astronomical Society, Prague, CR
2017 June, 1	Invited Review , Transients and the LSST revolution, Chicago, USA
2017 April, 18	Invited Participant/panel member , Cas A topical workshop, Princeton, NJ, USA
2017 Feb, 27	Invited Review , Strong Grav workshop, Oxford, MI, USA
2017 Jan, 30	Beller Prize Lecture, Invited talk , American Physical Society meeting, DC, USA
2016 Oct. 20	Invited Talk , Emission line galaxies at high redshift, Lorentz Center Workshop, Leiden, NL
2016 Sep. 21	Invited Talk , Year opening of the Department of physics and astrophysics, Amsterdam, NL
2016 Sep. 13	Invited Review Gravitational wave progenitors, MIAPP, Munich, Germany
2016 Sep. 13	Plenary Talk Invited , Astronomische Gesellschaft, Bochum Germany
2016 Aug.	Invited Review , Gravitational wave progenitors Gravitational Waves in Paris, France,
2016 Aug.	Invited Review , Binary evolution Stars on the run, Bamberg, Germany
2016 Aug.	Invited Talk , Astrophysics of the first gravitational waves, KITP, Santa Barbara, CA, USA
2016 July 26	Invited Talk Conference Binaries, Cambridge, UK
2016 July 7	Invited Talk , Conference of European society EWASS, Athens, Greece
2016 June 1	Invited Talk , Bridging the Gap, Supernova Royal Society Meeting UK
2016 May 17	Invited Talk , Sackler Conference Transients, Harvard, Cambridge MA, USA
2016 April 7	Invited Talk , Massive Stars and Star formation conference, Gainesville Florida
2016 Feb. 23	Invited Talk , DARK Cosmology Center Feedback Workshop, Copenhagen, Denmark
2015 Aug.	Invited Talk , General Assembly, Focus meeting Galaxies and Stellar populations, Honolulu, HI, USA
2015 Aug.	Invited Talk , General Assembly, Focus meeting Stellar Explosions, Honolulu, HI, USA
2015 May 11	Invited Talk , Gravitational wave meeting Cardiff, UK
2015 May 6	Contributed talk Gaia-ESO survey, Brussels, Belgium
2015, April 21	Invited talk , 25 th years of Hubble celebration meeting, STScI, Baltimore, Md, USA
2015, Jan 23	Contributed talk, Aspen meeting on Black holes, CO, USA
2014 Oct 8	Invited Talk , Time Domain Astrophysics with the Giant Magellan Telescope, Washington DC, USA
2014 Aug	Invited Review , Supernova in the local universe, Coffs Harbour, New South Wales, Australia
2014 Aug	Invited Talk , Gravitational Wave Astrophysics at COSPAR assembly, Moscow, Russia
2014 July	Invited Keynote Talk , A Critical Look at Globular Cluster Formation Theories, Sexten, Italy
2014 March	Invited Talk , Stellar Tango at the Rockies, Lake Louise, Alberta, Canada
2013 Nov	Invited Talk , Palomar Transient Factory, Science meeting, Santa Barbara, CA, USA
2013 Oct	Invited Talk , Einstein Fellow Symposium, Harvard, Cambridge, MA, USA
2013 Oct	Invited Talk , Palomar Transient Factory Sky House meeting, Santa Barbara, CA, USA
2013 Oct	Invited Talk , Massive Stars from alpha to omega, Rhodes, Greece
2013 Sep	Invited Seminar , TAPIR center for theoretical astrophysics, California Institute of Technology, CA, USA
2013 March	Invited Talk , Hubble Fellow Symposium, STScI, Baltimore, MD, USA
2012 Oct	Contributed Talk, Outstanding problems in Massive Star Research, St Paul, MN, USA
2012 Oct	Contributed Talk, 30 Dor, the starburst next door, STScI, Baltimore, MD, USA
2012, July	Invited Talk , Aspen workshop on Massive stars and Gamma-ray bursts, Aspen, CO, USA

2011 Dec	Invited Talk , Lorentz Center Workshop Modelling Dense Stellar systems, Leiden, NL
2011 Sept	Invited Seminar , Stellar rotation: nature or nurture, KITP, Santa Barbara, CA, USA
2011 Sept	Invited Talk , CIERA inaugural meeting, Fellows at the Frontier of Science, Northwestern, USA
2011 July	Contributed Long talk, Conference in honor of A. Moffat, Canada
2011 March	Invited Talk , Hubble Fellow symposium, Spitzer Science Center, Pasadena, CA, USA
2010 July	Contributed Talk, meeting of the astronomische gesellschaft, Bonn, Germany
2010 July	Contributed Talk, 39 th Liege Meeting, multi-wavelength view of massive stars, Liege, Belgium
2010 June	Contributed Talk, Binary star meeting, Mykonos, Greece
2010 May	Contributed Talk, STScI May Symposium, Baltimore, MD, USA
2010 April	Invited Review , JINA workshop Building virtual galaxies, Lansing, MI, USA
2009 Sept	Invited Talk , Lorentz Center workshops on stellar mergers, Leiden, NL
2009 Aug	Contributed Talk, IAU General Assembly in Rio, Brazil
2009 June	Contributed Talk, Binaries Key to understanding the universe, Brno Czech Republic
2009 April	Invited Talk , European week of astronomy and space science, Hertfordshire, UK
2008 July	Contributed talk, Evolution and pulsation of massive stars, Liege, Belgium
2008 April	Contributed talk, Stellar modeling in the 21 st century, Sanya, Hainan, China

INVITED COLLOQUIA AND SEMINARS (SELECTION, FOR REVIEWS ETC SEE ABOVE)

2019 Jan 17	Invited Seminar , Max Planck Institute for Astrophysics, Garching, Germany
2018, Nov 26	Invited Colloquium , Oxford University, UK
2018, March 20	Invited Colloquium , Oscar Klein Center, Stockholm, Sweden
2018, Feb 27	Invited Colloquium , Max Planck Institute for Astronomy, Heidelberg, Germany
2017, Oct 27	Invited Colloquium , NIKHEF, Amsterdam, The Netherlands
2017, Oct 18	Invited Seminar , Max Planck Institute for Astrophysics, Garching, Germany
2017, May 9	Invited City-wide colloquium , Heidelberg combined astrophysical institutes, Germany
2016	Invited Colloquium , Saclay, Paris, France Invited Colloquium , Kapteyn Institute Groningen, The Netherlands
2015	Invited Seminar , Princeton University, NJ, USA Invited Colloquium , Harvard Center for Astrophysics, Cambridge MA, USA Invited city-wide Colloquium , Joint Astrophysics Colloquium Munich MPA/MPE/ESO, Germany Invited Colloquium , Lund Observatory, Sweden
2014	Invited Colloquium , Dep of Astrophysics, California Institute for Technology, Pasadena, CA, USA Invited Colloquium , UC Berkeley, Dep. of astrophysics, CA, USA Invited Colloquium , UC Los Angeles, Dep. of astrophysics, CA, USA Invited Colloquium , UC Riverside, Dep. of astrophysics, CA, USA Invited Seminar , University of Birmingham, Dep. of astrophysics, UK Invited Colloquium , University of Warsaw, Poland Invited Colloquium , Monash University, Melbourne, Australia Invited Colloquium , American Museum of Nat History, NY, USA Invited Colloquium , University of Michigan, Ann Arbor, MI, USA Invited Colloquium , Michigan State University, Lansing, MI, USA
2013	Invited Colloquium , University of Arizona, Tucson, AZ, USA Invited Seminar , Anton Pannekoek Institute, University of Amsterdam, NL Invited Colloquium , University de Montreal, Canada Invited Colloquium , University of Florida Gainesville, FL, USA Invited Colloquium , University of Maryland, College Park, MD, USA Invited Seminar , Canadian Institute for Theoretical Astrophysics, Toronto, Canada
2012	Invited Colloquium , Princeton University, NJ, USA, Invited Colloquium (main astrophysics colloquium) Invited Seminar , University of California, Berkeley, Dep of astrophysics, theory seminar, CA USA Invited Colloquium , Center for Cosmology and Particle Physics, NYU, NJ, USA Invited Colloquium , Astronomisches Rechnen-Institut, U. Heidelberg, Germany Invited Colloquium , University of Minnesota, MN, USA Invited Colloquium , Inst. d'Astrofiscia de Canarias de Canarias, Tenerife, Spain Invited Colloquium , University of Delaware Newark, DE, USA

OBSERVING TIME (AND ASSOCIATED RESEARCH FUNDING)

Awarded Observing time as Principle Investigator

2016	ALMA 2016.1.01015.S, “The Extreme UV through ALMA's Eyes: a unique probe of the ionizing spectrum of OB Stars”	6.6 h
2013/2014	Hubble Space Telescope/Wide Field Camera 3 GO13446-1 & 2, 4+2 orbits “Siblings of Massive Stars: Extreme End of the Companion Mass Function”	56 k\$+26 k\$
2014	Hubble Space Telescope/Fine Guidance Sensor GO13447, 1 orbit, “Massive monsters living deep inside the Tarantula Nebula”	34 k\$*

Awarded Observing time as Co-Investigator

Very Large Telescope (ESO)

2019	Testing the physics of massive overcontact binaries as candidate progenitors of binary black hole mergers via the chemically homogeneous evolution pathway (XShooter, PI: Abdul-Masih), 12 hr	
2019	The dearth of short period binaries among very young massive stars (XSHOOTER, PI: Ramirez), 48 hrs	
2018	ESO large program , Demographics of stellar-mass black holes (XSHOOTER, PI: Jonker), 135 hrs	
2018	The multiplicity properties of 70 early B-type stars in NGC~6231 - Part II. the period range corresponding to common envelope and gravitational wave progenitors (Flames, PI: Sana), 4 hrs	
2017	The multiplicity properties of 70 early B-type stars in NGC~6231: a mile stone towards understanding the evolution of about half of the supernovae progenitors (Flames, PI: Sana), 18.3 hrs	
2015	Uncovering the fate of the Tarantula's B-type binaries, (Flames, PI Taylor) 31 hrs	
2013	Tracing the star formation history of the double stage H,scii super-bubble N,44 in the LMC (FLAMES/FORS, PI Sabbì), 9.5 h	
2012	Orbital solutions for >100 massive binaries in 30 Dor, (Flames, 090.D-0323, PI: H. Sana), 31 hrs	
2012	Massive YSOs in the periphery of R136 (Xshooter, 090.C-0346, PI: L. Kaper), 16 hrs	
2008	ESO large program , The VLT-FLAMES Tarantula Survey (FLAMES 82.D-0222, PI: C. Evans, cons. member), 94.5 hrs	

Hubble Space Telescope

2019	UV spectroscopy of He stars: the elusive stripped-envelope SN progenitors (PI N. Smith), 10 orbits	
2017	Dwarfs and Giants: Massive Stars in Little Dwarf Galaxies (PI Andrews), GO15093, 18 orbits	
““	Stars and gas in the most metal-deficient galaxies in the universe (Wofford), GO15220, 9 orbits	
2016	A Definitive Test of Rotational Mixing in Massive Stars (PI Proffitt), GO14673, 14 orbits	
2015	Primordial Binary Fraction in Trumpler 14 (PI E Sabbì) GO14107, 11 orbits	
““	Long-Lost Companions: Binary Secondaries of Three Nearby Supernovae (PI Fox) GO14075, 9 orbits	
2014	The Orion Nebula Cluster as a Paradigm of Star Formation.” (PI M. Robberto) GO13826, 52 orbits	
““	Most massive overcontact binary known: on the verge of coalescence? (PI Sana), GO13806, 8 orbits	
““	A 3D view of massive cluster formation in the SMC. (PI Sabbì), GO13680, 5 orbits	
2013	Time-Lapse Movie of the Kinematics Across the Carina Nebula (GO13390, PI N. Smith), 31 orbits	
““	LEGUS: Legacy Extra Galactic UV Survey (GO13364, PI Calzetti), 154 orbits	
2012	HTTP: Hubble Tarantula Treasury Project (GO12939, Pi: E. Sabbì), 60 orbits	
““	Proper Motions of Massive Stars near the Galactic Center (GO12915, PI: D. Lennon), 36 orbits	
““	Westerlund 2, top to bottom: how massive star clusters form (GO13038, PI: A. Nota), 7 orbits	
““	Searching for prolonged star cluster formation in H alpha (GO12011, PI: Th. Puzia), 2 orbits	
2011	Proper Motions of Massive Stars in 30 Doradus (GO12499, PI: D. Lennon), 30 orbits	
““	CCC: The Cosmic Carbon Conundrum (GO12472, PI: C. Leitherer), 29 orbits	
““	A Massive Star Census of the Starburst Cluster R136 (GO12465, PI: P. Crowther), 9 orbits	
““	Multiple populations in stellar clusters (AR12642, PI: V. Kozhurina-Platais & A. Dotter), Archival	

Other facilities (Chandra, ALMA, NuStar, VLA, CFHT)

2016	Very Large Array (VLA): DDT VLA/16A-447 Probing the Sub-Parsec Environment of the Type 1b SN2016bau (PI Margutti)	
2016	Chandra – NuSTAR: Mapping extreme mass loss from evolved massive stars with coordinated Chandra-NuSTAR observations, proposal 18500379 (PI Margutti), 30 ks Chandra + 100ks NuSTAR	

- 2014 **ALMA** The extreme UV through ALMA's eyes: a unique probe of the ionizing power of starbursts and SMBHs (PI Scoville) Cycle 2: 2013.1.00111.S, 6.6 h
- 2013 **Chandra X-ray Observatory:** T-ReX: The Tarantula Revealed by X-rays (X-ray Visionary Project 15900142, PI Townsley), 2000 Ksec
- 2012 **Canadian French Hawaiian telescope (CFHT),** BinaMIcS: Binarity and Magnetic Interactions in various classes of stars, (ESPaDOs Large Program, PI: Alecian, involved as cons. member) 606 hrs

ORGANISATION OF (INTERNATIONAL) SCIENTIFIC MEETINGS

- As primary/main organizer, Chair or CoChair**
- 2015 – now **Colloquium Organizer** Anton Pannekoek Colloquium Series, Amsterdam, NL
- 2017 **Chair (co-chaired w/Mandel)** Lorentz Center Workshop, EM signatures of BH mergers, Leiden NL
- 2017 **Organizer/SOC:** KITP workshop Massive Stars Santa Barbara, CA, USA
- 2015 **Chair (co-chaired w/Sana)** Lorentz Center Workshop Impact of binaries on the Universe, NL
- 2012 – 2013 **Colloquium Organizer** STScI, weekly audience ~100 people, Baltimore, MD, USA
- As co-organizer / member of Scientific/Local Organizing Committee (SOC/LOC)**
- 2019 Scientific Advisor: Gravitational-Wave Physics and Astrophysics, KITP workshop, Santa Barbara, US
- 2018 SOC: Physics of Massive Stars from ZAMS to LIGO, Ensenada, Mexico
- 2018 SOC: IAU General Assembly "Binaries, Multis and Astrostatistics at the Crossroads", Vienna, Austria
- 2017 SOC: Ages²: Taking stellar ages to the next power, Elba, Italy
- 2017 SOC: Kavli Summer Program, Astrophysics with gravitational wave detections, Copenhagen, DM
- 2017 SOC: The Physics of evolved stars II, the role of binarity, Nice, France
- 2017 SOC: Impact of Binaries on Stellar Evolution, Garching, Germany
- 2016 SOC: From Stars to Massive stars, Gainesville, ~ 100 participants, FL, USA
- 2016 SOC: COSPAR symposium Massive Binaries Turkey~ 30 participants, (cancelled)
- 2015 SOC: The dynamic Universe, Aspen, ~ 30 participants, CO, USA
- 2015 SOC: Understanding Nebular Emission in High redshift Galaxies, ~ 50 participants Pasadena, CA, USA
- 2014 SOC: Binary Systems ~120 participants, Ulaan Bataar, Mongolia
- 2014 SOC: Orion Nebula Cluster, ~50 participants Baltimore, Md, USA
- 2013 SOC: Massive stars from alpha to omega, ~150 participants, Rhodes, Greece
- 2012 SOC: 30 Doradus, ~50 participants, Baltimore, MD, USA
- 2012 SOC: Intermediate Transients, ~40 participants, Baltimore, MD, USA
- 2006 LOC: Mass loss from Stars & Clusters, Lunteren, NL
- 2006 LOC: Dutch Astronomy Conference, Vlieland, NL

MAJOR INTERNATIONAL COLLABORATIONS / CONSORTIA

- 2017 – now Science Case Team Working Group Compact Binaries, Science Case for 3G detectors
- 2016 – now Management team COST Action Network “CheTECH”, Lead of Dutch participation
- 2015 – now Member of LISA-NL consortium
- 2015 – now Member of PLATO complementary science team
- 2008 – now VLT-FLAMES Massive Stars Consortium: pan-European collaboration organized a large ESO spectroscopic program, PI Evans (Edinburgh, UK)
- 2013 – now LEGUS: HST Legacy Extra Galactic UV Survey collaboration organized around a Hubble Treasury imaging program PI Calzetti/Lee (Baltimore, Md)
- 2012 – now HTTP: HST Treasury data set of the Tarantula Nebula: proper motion and photometric program with the Hubble Space Telescope
- 2012 – now BinaMIcS: Binarity and Magnetism in Stars PI Alecian (Paris, France)

SELECTION COMMISSIONS OF TRUST AND MEMBERSHIP OF SOCIETIES

- 2010 - now Reviewer for various refereed journals including Monthly Notices of the Astronomical Society, Astronomy and Astrophysics, the Astrophysical Journal and the Astrophysical Journal Letters
- 2018 EAS Prize committee
- 2018 - 2014 NASA Time Allocation Committee Hubble Space Telescope: panel member (2014, 2018) and external reviewer (2015, 2016)

2018	Expert Reviewer Israeli Science Foundation
2014, 2015	Expert reviewer for OPTICON
2013	Expert Reviewer for Science and Technology Foundation Council (STFC), UK
2015 - now	Member of the European Astronomical Society
2012 - now	Member of the International Astronomy Union
2016 - 2017	Member of the American Physics Society
2010 - 2014	Member of the American Astronomical Society

UNIVERSITY & NATIONAL SERVICE WORK

2016 - now	Committee for the Van der Waals Lectureship series
2017 - 2019	NOVA Research Committee: advisory committee to the board of the Netherlands Astronomy School
2015 - 2019	Primary Organizer/coordinator of API weekly astrophysics colloquium series
2018	Committee tasked with redesigning the curriculum of the combined VU-UvA Physics Bachelor
2017	Organizer of the Dutch Theory Retreat
2017	Chair of API MSc thesis prize committee
2016	Member of the API 2016 MSc thesis prize committee
2015 - 2019	Member of the committee for joint activities UvA/VU Department of Physics and Astronomy
2015 - 2017	Member of the sounding board UD/UHD/TT for the dean
2001 - 2003	Member of the educational advisory committee (Onderwijs Advies Commissie) at Utrecht University
2001 - 2002	Board Member of the student council of the faculty of physics and Astronomy, Utrecht University
2001 - 2002	Student Member of the Management Team of the Educational institute of the faculty, Utrecht University
1997 - 2000	President (1998-1999) and member of the student council, Geert Groote College, Deventer, NL
1998	Member of the “Sollicitatie / Benoeming Advies Commissie”, a committee tasked with the selection of candidates for the position of section coordinators, Geert Groote College, Deventer, NL
1997-1999	Member of the Nationale Medezeggenschapsraad (representative advisory board), Stichting Carmel <i>Stichting Carmel is the national organization that unites 50 high schools throughout the country, among which my former high school. I acted as student member in the (representative advisory board) at the national level.</i>
1997-1999	Member of the “Medezeggenschapsraad” (representative advisory board), Geert Groote College, Deventer <i>This council consisting of teachers, parents and students acted as a formal sounding board and advised in various matters regarding any educational and management matters.</i>

MENTORSHIP AND STUDENT SUPERVISION

As Primary Supervisor or Mentor

Senior group members: Associates and Postdoctoral Researchers (4)

2018 – now	Prof. Stephen Justham, associate researcher and visiting professor
2018 – now	Dr. Athira Menon, postdoctoral researcher
2017 – now	Dr. Robert Farmer, postdoctoral researcher
2016 – 2019	Dr. Silvia Toonen, independent prize fellow, VENI fellowship, now faculty at Birmingham Univ.

PhD students (5)

2019 – now	Lieke van der Son, transitioning to Harvard University
2017 – now	Eva Laplace, University of Amsterdam
2015 – now	Mathieu Renzo, graduating Dec 18, 2019, accepted CCA prize fellowship at FlatIron institute
2014 – 2019	Dr. Ylva Götberg, graduated Feb 7, 2019, now Carnegie Nashman Theory Prize Fellow
2014 – 2018	Dr. Emanouil (Manos) Zapartas, graduated Dec 7, 2018, now a Swiss Excellence Prize Fellow

MSc Students (12)

2019 – now	Sarah Kok, UvA MSc student (w/Farmer)
2018 – 2019	Javier Moran Fraille, UvA MSc student (w/Farmer), starting PhD position in Heidelberg University
2018 – 2019	Miron van der Kolk, UvA MSc student (w/Farmer)
2017 – 2018	Floor Broekgaarden, UvA MSc student (w/Justham), now PhD position at Harvard University
2017 – 2018	Karel Temmink, UvA MSc student (w/Toonen), now PhD student at Nijmegen University
2017 – 2018	David Hendriks, UvA MSc student (w/Renzo), now PhD student at Surrey University

- 2016 – 2018 Walter van Rossem, UvA MSc student, now **PhD student at Birmingham University**
 2016 – 2017 Louise Edstam, UvA MSc student, continued in finance
 2015 – 2016 Coen Neijssel, UvA MSc student, now **PhD student at Melbourne University**
 2015 – 2016 Ruben Boots, UvA MSc student, continued in education
 2014 – 2015 Abel Schootemeijer, UvA MSc student, now **Postdoctoral fellow at Argelander Institute Bonn**
 2013 – 2014 Emanouil Zapartas, UvA MSc student, **see above**

BSc Students (9)

- 2019 Carla Garcia, ASPIRE summer student (w/Farmer), accepted in **MSc program in Padova University**
 2018, 2017 Thomas Dodds, UvA BSc student, astrovaria project, now **MSc student at Leiden University**
 2016 Floor Broekgaarden, UvA BSc student, **see above**
 2016 Max Briel, UvA BSc student, now **PhD student at Auckland University**
 2015 Timonhy Mans, UvA undergraduate project, unknown
 2015 Jur Haartman, UvA undergraduate project, unknown
 2009 Adrian Hamers, UU, BSc student, **Max Planck groupleader at MPA in Munich**
 2008 Mark Verkoulen, UU, BSc student, unknown
 2007 Michiel Cottaar, UU, BSc student, continued as **postdoc at Oxford University**

Former students that continued were awarded fellowships or continued in academic positions:

- 2019 E. Zapartas has been awarded **the Swiss Excellence postdoctoral fellowship**
 2019 M. Renzo has been offered a **prize fellowship at the CCA at the flatiron institute at NY.**
 2018 Dr. S. Toonen has been offered and accepted a **faculty position at Birmingham University, UK**
 2018 Dr. Y. Götberg, has been offered a **Carnegie Postdoctoral Fellowship, US**
 2018 F. Broekgaarden, has been accepted in **Harvard's PhD program**
 2010 A. Hamers, **IAS Princeton postdoctoral fellow, Max Planck Group leader.**
 2009 M. Cottaar (PhD at ETH in Zurich, Postdoc at Oxford University)

Host/Mentor of visiting students and postdocs (short collaboration visits)

- 2019 Postdoc Antonia Bevan (CHeTeCH Cost Action Visitor)
 2019 Postdoc Tomer Shenar (CHeTeCH Cost Action Visitor)
 2018 PhD student Moritz Pleintinger (CHeTeCH Cost Action Visitor)
 2016, 8 PhD student: Alejandro Vigna-Gómez, now PhD student in Birmingham, UK
 2016 Postdoc: Saida Caballero-Nieves, now faculty at Florida Institute for Technology, FL, USA
 2016 PhD student: Dorrotya Szecsi, postdoctoral fellow in Prague, Czech Republic, Birmingham UK
 2016 PhD student: Simon Stevenson, postdoc in Australia
 2015 PhD student: Pablo Marchant, postdoctoral fellow at Northwestern University, USA

EXAMINATION OF GRADUATE STUDENTS

- 2019 PhD Examiner for V. Korol (Leiden University)
 2019 Reading committee and PhD Examiner for A. Jaodand (U. Amsterdam)
 2018 Reading committee and PhD Examiner for M. Ramirez Tannus (U. Amsterdam)
 2017 PhD Examiner for T. Wijnen (Radboud Univ. Nijmegen)
 2016 Reading committee & PhD Examiner for S. Repetto (Radboud Univ. Nijmegen)
 2015 PhD Examiner for C. Abate (Radboud Univ. Nijmegen)
 2015 PhD Examiner for R. Andrassy (Amsterdam/MPA Garching)
 2014 PhD Examiner for O. Ramirez-Agudelo (Amsterdam)

TEACHING

2019	Stellar Evolution (Graduate Level Course, University of Amsterdam, 6 EC)
2018	Computational Astrophysics (Graduate Level Course, University of Amsterdam, 6 EC) Guest lecturer, Big History, massive open online course (Non-science majors. University of Amsterdam)
2017	Computational Astrophysics (Graduate Level Course, University of Amsterdam, 6 EC) Lecturer, MESA (open source stellar evolutionary code) summer school, UCSB Guest lecturer in Open Problems in Astrophysics (Graduate level course, University of Amsterdam) Guest lecturer “Big History”, massive open online course (Undergrad level, University of Amsterdam)
2016	Computational Astrophysics (Graduate Level Course, University of Amsterdam, 6 EC) Guest lecturer “Big History”, massive open online course (Non-science majors. University of Amsterdam)
2015	Guest lecturer in Advanced Stellar Evolution (Graduate level course, University of Amsterdam) Guest lecturer in Open Problems in Astrophysics (Graduate level course, University of Amsterdam)
2003 -2009	Teaching Assistant Advanced Stellar Evolution (Graduate level course, University of Utrecht) Teaching Assistant Advanced Thermal Physics (Advanced Undergrad course, University of Utrecht) Teaching Assistant Quantum Mechanics (Undergraduate level, University of Utrecht) Teaching Assistant Special Relativity, Classical Mechanics, Optics (Undergrad. Level, Univ. of Utrecht)
2005	Volunteer Teacher, Bilingual primary school in rural area in Guatemala
2001	Volunteer Teacher, Summer school Amsterdam Bijlmer, The Netherlands

PRESS RELEASES

(incomplete)

Dec 2018	Elected as member of the Dutch Young academy of Sciences	KNAW
Jan 2018	Massive stars more common than scientist thought, Schneider et al. 2018	Science/NOVA
Jan. 2017	NuSTAR Finds New Clues to 'Chameleon Supernova, Margutti et al. 2017	NASA/JPL
Sept, 2016	ERC starting grant voor twee Nederlandse Astronomen	NOVA
March 2016	Hubble Unveils Monster Stars, Crowther et al. 2016	NASA/STScI
Oct 2015	Final Kiss of Two Stars Heading for Catastrophe, Almeida et al. 2015	ESO
Sept 2015	Snoeihete ster ontploft binnen 1500 jaar, for Tramper et al. 2015	NOVA
April 2015	Hubble's 25 th birthday, a fly through the Westerlund 2 cluster, Zeidler et al. 2015	NASA
July 2014	Galaxy with a glowing heart, image release LEGUS survey, for Calzetti et al. 2014	ESA/NASA
July 2012	The brightest stars don't live alone, for Sana & De Mink et al., Science 2012	ESO/STScI
Aug 2012	Seeing double in 30 Doradus, for Sabbi et al. 2012	NASA/STScI
April 2012	Hubble's 22 nd anniversary image, for GO12499	NASA/STScI
Dec 2011	Fastest rotating star found in neighboring galaxy, for Dufton et al., ApJL 2011	ESO/STScI
April 2010	Utrechtse astronome onderzoekt met hubble fellowship de allerzwaarste sterren	NOVA
Nov 2009	Dubbelsterren hoofdverdachten van vervuiling sterhopen, for de Mink et al., 2009	NOVA
March 2009	Zwaar zwart gat in dubbelster M33-X7 verklaard, for de Mink et al., 2009	NOVA

NOVA = Netherlands school for astronomy, STScI = Space Telescope Science Institute

Further selection of outreach activities

2018	Book presentation children book on binary black holes. “Femke en het zwarte gat ..”
2017	Founding member online network for women in theoretical and computational astrophysics
2017	Organizer Local Hack event for women
2016	FNWI/API speaker in beta break lecture series Spui25
2009	Science Museum Lecturer, Science for Children
2008	Popular lecture at the Youth Association for Astronomy in Utrecht, NL.
2007-2008	Organizer of the Dutch Astronomy Olympiad 2008
2005	Primary organizer of a one day Astrophysical Student Symposium, Utrecht University
2000-2005	Open science days and high school visits to promote science

MEDIA APPEARANCE (INTERVIEWS, FEATURES)

(incomplete)

2019 Jan	Newspaper Telegraaf, featured as new member of the young academy of sciences
2018 Nov	Volkskrant, interview about past collision of Milky way covering Helmi's work
2018 Oct	Nieuwsuur Radio, phone interview on the status of Hubble's gyroscopes
2018	Newspaper Parool: Personal research profile

- 2018 March New Scientist Magazine: Interview for an 8-page personal research profile
- 2018 Jan Interview for Volkskrant, “Obesitas in heelal: aantal sterren met overgewicht veel groter dan gedacht”
<https://www.volkskrant.nl/wetenschap/obesitas-in-heelal-aantal-sterren-met-overgewicht-veel-groter-dan-gedacht~a4554160/>
- 2017 Oct Interview for New Scientist Netherlands on gravitational waves
<https://newscientist.nl/nieuws/zwaartekrachtsgolf-botsende-neutronensterren-onthult-oorsprong-goud/>
- 2017 Oct Live Interview for Radio Nos op 3 on the binary neutron star merger
- 2017 Sep Feature in Dutch popular scientific magazine KIJK
- 2017 Feb Interview for **Discovery Channel** “How The Universe Works”: exclusive episode on Massive Binary Stars
- 2017 Feb Interview for **Science Magazine** in depth article on progenitors of binary black holes
- 2017 Feb Interview with **Quanta magazine** on r-process nucleosynthesis
- 2016 Nov 28 **Elsevier tijdschrift**: featured in an outlook for 2017 by 5 promising young Dutch scientist
- 2016 Sept 6 **Online Quanta magazine & podcast**: protagonist in feature “Colliding Black Holes tell story of the stars”
<https://www.quantamagazine.org/20160906-black-hole-ligo-astronomy/>
- 2016 Aug 26 **Radio interview Een Vandaag** “Veel belovende Sterrenkundige in de race voor wetenschapstalent 2016”
<http://www.nporadio1.nl/radio-eenvandaag/onderwerpen/372067-veelbelovende-sterrenkundige-in-de-race-voor-wetenschapstalent-2016>
- 2016 Aug 25 **Newspaper Parool**: Short interview related to nomination as “wetenschapstalent 2015”
- 2016 July, 1 **Magazine Filosofie**: Featured in item over “verwondering” by Roeline Bos
<https://www.filosofie.nl/nl/artikel/45979/lezersenquête-profielen-van-verwonderaars.html>
- 2016 March 17 **BBC** “Hubble spies the land of giants” featuring research on most massive stars
<http://www.bbc.com/news/science-environment-35833873>
- 2015, Nov 25 **Magazine AmsterdamScience**, Interview for cover feature on 25 years of Hubble
<http://www.amsterdamscience.org/hubbles-25-th-birthday/>
- 2015 Nov 7 **Newspaper Parool**: Listed as one of nine young Amsterdam academics that are making impact worldwide
- 2015 Oct 25 **Newspaper Le Monde**: Mentioned in “Deux étoiles géantes s’embrassent avant leur fin tragique”
<http://passeurdesciences.blog.lemonde.fr/2015/10/25/deux-etoiles-geantes-sembrassent-avant-leur-fin-tragique/>
- 2015 Oct 21 **TV CBS News**: cited in “Stars locked in potentially fatal cosmic kiss”
<http://www.space.com/16767-massive-stars-companions-merge-vampire-stars.html>
- 2015, Oct 21 **Newspaper NRC**: mentioned in a feature of the over contact binary
<https://www.nrc.nl/nieuws/2015/10/23/deze-sterren-slokken-elkaar-op-1551209-a170946>
- 2015, Oct 21 **TV item De Kennis van Nu**: Interview
<http://dekennisvannu.nl/site/artikel/Bijzondere-dubbelster-ontdekt/7609>
- 2015 Oct 21 **Newspaper Volkskrant**: Featured research “Innige zoen van ster VFTS 352 is hoe dan ook een doodskus”
<http://www.volkskrant.nl/wetenschap/innige-zoen-van-ster-vfts-352-is-hoe-dan-ook-een-doodskus~a4167988/>
- 2015 Aug, 1 **Magazine Libelle**: 5 page personal professional feature
- 2015 March 4 **TV NPO Wetenschap**: De Hubble ruimte telescoop
http://www.npo.nl/de-kennis-van-nu/04-03-2015/VPWON_1236022
- 2012, July 26 **Popular Science Website space.com** feature on Science Paper
<http://www.space.com/16767-massive-stars-companions-merge-vampire-stars.html>
- 2012, July 2015 **News website Daily mail** mentioned in “Attack of the vampire sun”
<http://www.dailymail.co.uk/sciencetech/article-2178851/Attack-vampire-sun-Astronomers-spot-binary-star-sucks-life-another.html>
- 2011, Dec 20 **Podcast ScienceUpdate.com** interview about the fastest spinning star
<http://www.scienceupdate.com/2011/12/star/>
- 2011, Dec 2 **News website nu.nl**: mentioned in feature on the fastest rotating star
<http://www.nu.nl/wetenschap/2683653/snelst-draaiende-ster-ooit-ontdekt.html>
- 2010, April 10 **Radio Interview Radio 1** **journaal**: live feature on Hubble fellowship and dubbelsterren
- 2010, April 9 **Newspaper Volkskrant**: mentioned in feature related to NASA fellowship
<http://www.volkskrant.nl/wetenschap/nederlandse-astronome-krijgt-beurs-voor-nasa~a982686/>