

## Personal Information

Name Nathalie Degenaar  
Nationality Dutch

## Contact Information

University of Amsterdam – Anton Pannekoek Institute for Astronomy  
Science Park 904 (office C4.120), Amsterdam, The Netherlands  
Phone +31 20 525 3994  
E-mail degenaar@uva.nl  
Web <https://nathaliedegenaar.com>

## Research Interests

The physics of jets and disk winds  
X-ray binaries as probes of binary evolution  
The impact of outflows on the interstellar medium  
Probing ultra-dense matter through observations of neutron stars  
The physics of low-level accretion onto neutron stars and stellar-mass black holes

## Research Positions

2020–present Assistant professor (Universitair Docent), University of Amsterdam  
2016–2021 Vidi research group leader, University of Amsterdam  
2014–2016 Marie Curie research fellow, University of Cambridge, UK  
2011–2014 Hubble research fellow, University of Michigan, USA  
2010–2011 Postdoctoral researcher, University of Amsterdam

## Education

2006–2010 PhD in Astronomy, University of Amsterdam  
Thesis title: *Exploring sub-luminous X-ray binaries*  
2004–2006 Master degree in Astronomy (*cum laude*), University of Amsterdam

## Grants and Fellowships

2020 XS grant from NWO – 50 000 euro  
2015 Vidi grant from NWO (5 years) – 800 000 euro  
2015 St John's College Research Fellowship (5 years) in Cambridge, UK  
2014 Marie Skłodowska-Curie fellowship from the EC (2 years) – 280 000 euro  
2011–2014 Observing grants from Hubble, Chandra, XMM-Newton, Swift – 605 000 euro  
2011 Hubble fellowship from NASA (3 years) – 340 000 euro

## Scientific Networks and Academy Memberships

2021–2022 Advisory team for science with the Wide Field Camera of the Athena X-ray satellite  
2021–2022 Advisory working group for time-domain astronomy with the Chandra X-ray satellite  
2018–present Member of the International Astronomical Union (IAU)  
2018–present Chair of the accreting neutron star working group of the MeerLICHT telescope  
2017–present Joint Institute for Nuclear Astrophysics, Center for the Evolution of the Elements  
International partner, network for studying nuclear elements in the universe  
2017–present Event Horizon Telescope multi-wavelength working group

## Management Responsibilities

2021–present Management team of the Anton Pannekoek Institute for Astronomy  
2021–present Curriculum committee Science & Design, University of Amsterdam  
2020–present Deputy chair of the Dutch science network NOVA-NW3  
2020–present Exam committee Physics & Astronomy program at the University of Amsterdam  
2017–2022 Management Committee of the European neutron-star network PHAROS  
2009–present Leader of the Swift Galactic center X-ray monitoring team of the Swift satellite  
2007–2009 Secretary of the Dutch national committee of astronomy education (LOCNOC)

## Overview of Research Output

### Publication Record Summary

First author refereed publications	37 (10 Letters, 4 reviews)
First author non-refereed publications	65
Co-author refereed publications	151 (27 Letters, 5 reviews)
Co-author non-refereed publications	138

### Talk Record Summary

Invited talks international conferences	31
Colloquia and seminars	27
Contributed talks conferences	19

### Telescope Time Acquisition Record Summary

PI accepted observing proposals	189
Co-I accepted observing proposals	177
Facilities used as PI:	
X-ray	Chandra, XMM-Newton, NuSTAR, Swift, RXTE
UV	Hubble Space Telescope
Optical/nIR	VLT, SMARTS, INT, Gemini, Magellan
Radio	VLA, ATCA

### Organization of Scientific Meetings Summary

SOC co-chair, LOC	<i>100 years of astronomy research at the Anton Pannekoek Institute</i> Held in Amsterdam, June 2022. International conference, 50 participants
SOC chair, LOC	<i>From Winds to Jets: The Role of Outflows in X-ray Binaries</i> Held in Amsterdam, July 2019. International workshop, 65 participants
SOC chair, LOC	<i>ICONS: Investigating the Crust of Neutron Stars</i> Held in Amsterdam, April 2019. International workshop, 40 participants
SOC, LOC, treasurer	<i>A decade of accreting millisecond X-ray pulsars</i> Held in Amsterdam, April 2008. International workshop, 60 participants
SOC (22)	<i>A total of 22 other international conferences and workshops, see CV Appendix</i> Since 2009, various countries, 50–250 participants each
LOC (2)	<i>A total of 2 other international conferences, see CV Appendix</i> Held in 2009 and 2011 in the Netherlands, 200 participants each

### Editorial and Panel Work

Journal referee	Science, Astrophysical Journal (ApJ), Astronomy & Astrophysics (A&A) Monthly Notices of the Royal Astronomical Society (MNRAS), New Astronomy
Co-editor	<i>A decade of accreting millisecond X-ray pulsars</i> (2008) American Institute of Physics Journals Conference Proceedings 1068
Fellowship panels	NASA Earth Space and Science Fellowship (NESSF, 2013) NASA Hubble Fellowship Program (NHFP, 2018) Research Council Academy of Finland (2021)
Time allocation panels	Gemini (2013), Chandra (2014, 2018), ING (2017, 2018), AstroSAT (2017, 2018), Chinese TAP (2018), INTEGRAL (2019, 2020), ESO (2021), XMM (chair, 2022)

### Selection of Press

2022	ESO press release <i>Astronomers discover micrometeoroids, a new kind of stellar explosion</i>
2022	NOVA press release <i>Black hole in the centre of the Milky Way unpredictable</i>
2021	Dutch podcast <i>Bijvangst: De sterrenkundigen, de ninja en de onbereikbare telescoop</i>
2020	Athena science nugget <i>Accretion disks torn apart by magnetic neutron stars</i>
2020	AAS research highlight <i>Jet-setting in the infrared</i>
2019	Dutch radio interview <i>Met het oog op morgen: Onmogelijk zwart gat ontdekt</i>
2018	NRAO press release <i>VLA discovers jet coming from wrong kind of star</i>
2017	NOVA press release <i>High-magnetic field neutron stars can launch jets</i>
2017	ESA/NASA press release <i>Mind the Gap: Rapid Burster behaviour explained</i>

## Selection of Press – Continued

- 2014 Press conference American Astronomical Society (AAS), Washington DC, USA  
*On the watch for a revival of the Milky Way’s supermassive black hole*
- 2014 NASA press release *NASA’s Swift catches X-ray action at Milky Way’s center*
- 2014 Dutch newspaper (NRC) interview ‘Gaswolk op weg naar het grote zwarte gat’
- 2014 High-energy astrophysics picture of the week *Action at the Galactic center*
- 2012 German radio interview *Snacks für das Schwarze Loch*

## Selection of Outreach

- 2021 *Viva Fysica* for high-school students and teachers. University of Amsterdam
- 2019–2020 *Sounds of Interstellar Space* with the jazz combo TRIFID. Different locations in NL  
Concert and lecture series, <http://www.soundsofinterstellarspace.nl>
- 2019 *Enrichment project* for girls in 2nd grade, Cygnus gymnasium, Amsterdam, NL
- 2018 *Astronomy Olympiad* lecturer, highschool students. University of Amsterdam, NL
- 2017 *Public evening lectures*. Anton Pannekoek Institute, University of Amsterdam, NL
- 2016 *Fellows pre-dinner lecture series*. St John’s College. Cambridge, UK
- 2016 *STEM Subject Days*. St John’s College. Cambridge, UK
- Outreach events for year-12 students (aged 15–18) from state school backgrounds
- 2016 *Public evening lectures*. Institute of Astronomy, University of Cambridge, UK
- 2015 *Interviews* with girls in secondary school (5th grade). Different locations in NL
- 2012–2013 *FEMMES (Females Excelling More in Math, Engineering and Science)*.  
Activities for girls in secondary schools from underserved areas. Ann Arbor, USA
- 2008–2011 *Interviews/lectures for scholars in secondary school*. Amsterdam, NL

## Overview of Teaching Output

### Supervision of Postdoc Projects

- 2019–2020 Dr. A. Parikh, University of Amsterdam  
Primary supervisor, funded by my Vidi research grant  
Now Quantitative Risk Analyst at ABN Amro bank
- 2016–2019 Dr. J. Hernández Santisteban, University of Amsterdam  
Primary supervisor, funded by my Vidi research grant  
Now postdoctoral fellow at the University of St. Andrews, Schotland

### Supervision of PhD Projects

- 2021–present Ms. S. Fijma, University of Amsterdam. Primary supervisor, funded on start-up grant.
- 2020–present Mr. D. Hewitt, University of Amsterdam. Co-promotor, promotor J. Hessels
- 2016–2020 Dr. J. van den Eijnden, University of Amsterdam. Primary supervisor, funded on Vidi grant.  
Now Junior Research Fellow at St. Hilda’s College and the University of Oxford, UK
- 2019 Mr. K. Alizai, University of Amsterdam. Promotor J. Chenevez, graduated in 2021.  
Exchange visit (4 months) from the Technical University of Denmark
- 2015–2019 Dr. A. Parikh, University of Amsterdam. Co-promotor, promotor R. Wijnands  
Now Quantitative Risk Analyst at ABN Amro bank
- 2015–2019 Dr. A. Rouco Escorial, University of Amsterdam. Co-promotor, promotor R. Wijnands  
Now postdoctoral fellow at the University of Northwestern, USA
- 2009–2013 Dr. M. Armas Padilla, University of Amsterdam. Co-supervisor, promotor R. Wijnands  
Now La Caixa independent postdoctoral fellow at the IAC Tenerife, Spain

### Supervision of Master and Undergraduate Research Projects

- 2016–present 15 MSc projects, 15 BSc projects, see CV Appendix. University of Amsterdam

### Lecturing

- 2022–present Lecturer and coordinator *Proposal writing*, MSc students. University of Amsterdam
- 2020 Lecturer *Structure and Evolution of Stars*, MSc students. University of Amsterdam
- 2020 University Teaching Degree (BKO certificate). University of Amsterdam
- 2019–present Lecturer and coordinator *Astrophysics*, BSc students. University of Amsterdam
- 2016–present Regular guest lecturer, different courses, see CV Appendix. University of Amsterdam

## Full List of Invited talks at International Conferences

- 2022 October: Two decades of high-energy astronomy with INTEGRAL. Darmstad, Germany  
**Invited review:** *Studying X-ray binaries with future X-ray missions*  
 August: Black hole accretion workshop. Charleston (South Carolina), USA  
**Invited talk:** *Jet from accreting neutron stars*
- 2021 October: Swift senior review strategy workshop. Online  
**Invited review:** *Galactic X-ray transients*  
 September: Micro-quasar workshop. Cagliari (Sardinia), Italy  
**Invited review:** *The physics of accretion and ejection*
- 2020 October: Chandra frontiers of time domain science. Online.  
**Invited review:** *Accretion and outflows in neutron star low-mass X-ray binaries*  
 June: EAS 2020, XMM-Newton: Current scientific highlights and future prospects. Online.  
**Invited review:** *Low-mass X-ray binaries and transitional millisecond pulsars*
- 2019 December: Texas 2019, Relativity at work: discs, jets and magnetic fields. Portsmouth, UK  
**Review:** *The neutron star jet and magnetic field paradigm*  
 June: Connecting thermonuclear burst research to a wider community. Leiden, NL  
**Invited review:** *Observational signatures of X-ray bursts affecting accretion in X-ray binaries*
- 2018 August: Chandra workshop, Accretion in stellar systems. Boston, USA  
**Invited review:** *Outflows from X-ray binaries*
- 2017 June: EWASS symposium. Prague, Czech republic  
**Invited review:** *Crust heating and cooling of transiently accreting neutron stars*  
 February 2017: Nuclear reactions in superdense matter – Laboratory to stars. Bern, Switzerland  
**Invited talk:** *Crust constraints from observing neutron star low-mass X-ray binaries in quiescence*  
 January: The disk-magnetosphere interaction for transitional pulsars. Bern, Switzerland  
**Invited talk:** *Low-level accretion in neutron star low-mass X-ray binaries*
- 2016 October: Gamma-ray astrophysics in multi-wavelength perspective. Amsterdam, NL  
**Invited review:** *Low-level accretion in neutron star LMXBs*  
 May: Stellar remnants at the junction. Junction, Texas, USA  
**Invited review:** *Compact objects accreting at low mass-accretion rates*  
 January: Transient thinkshop 2016. Bormio, Italy  
**Invited review:** *The X-ray view of Galactic X-ray binaries*
- 2015 August: The zoo of accreting compact objects workshop. Leiden, NL  
**Invited review:** *The quiescent properties of neutron star low-mass X-ray binaries*  
 July: Paving the way to simultaneous multi-wavelength astronomy. Leiden, NL  
**Invited talk:** *Multi-wavelength observations and modeling of Sgr A\**  
 June: 40 years of X-ray bursts. Madrid, Spain  
**Invited talk:** *The delicate connection between X-ray bursts and the accretion flow*  
 May: Coronae in the flashlight. Beijing, China  
**Invited talk:** *NuSTAR observations of the changing accretion morphology during X-ray bursts*
- 2014 December: Probing deep inside the neutron star crust. Bern, Switzerland  
**Invited talk:** *New observational results in neutron star crust cooling*  
 December: Swift mission conference, celebrating ten years. Rome, Italy  
**Invited talk:** *A Swift legacy: The X-ray monitoring campaign of the Galactic center*

- January: American Astronomical Society's winter meeting. Washington DC, USA  
**Invited talk:** *News from the Galactic center: daily X-ray monitoring observations with Swift*
- 2013 December: European Space Research and Technology Center (ESTEC). Noordwijk, NL  
**Invited talk:** *Slowly accreting neutron stars and black holes*
- October: Swift mission conference. State College, USA  
**Invited talk:** *A Swift legacy: The X-ray monitoring campaign of the Galactic center*
- September: Probing deep inside the neutron star crust. Bern, Switzerland  
**Invited talk:** *An update on the crust cooling curves of EXO 0748–676 and Terzan 5 X-2*
- September: Probing deep inside the neutron star crust. Bern, Switzerland  
**Invited talk:** *Evidence of crust cooling in short-outburst transients?*
- March: Annual Hubble fellowship symposium. STScI, Baltimore, USA  
**Invited talk:** *Feeding the supermassive black hole in the center of the Milky Way Galaxy*
- 2012 October: Nuclear astrophysics town meeting. Detroit, USA  
**Invited talk:** *Heating and cooling of transiently accreting neutron stars*
- 2011 March: Mapping neutron stars with Type-I X-ray bursts. Bern, Switzerland  
**Invited talk:** *Long thermonuclear bursts from hydrogen accretors*
- 2010 July: X-ray bursts and burst oscillations. Leiden, NL  
**Invited talk:** *X-ray bursters accreting at low luminosities*
- 2009 May: Defining the neutron star crust. Santa Fe, USA  
**Invited talk:** *Crustal cooling of EXO 0748–676 and XTE J1701–462*

## Full List of Colloquia and Seminars

- 2020 February: Instituto de Astrofísica de Canarias (IAC). Santa Cruz (Tenerife), Spain  
**Seminar:** *The notorious LB-1*
- 2019 June: L'Institut de Recherche en Astrophysique et Planétologie (IRAP). Toulouse, France  
**Colloquium:** *The important role of outflows in X-ray binaries*
- February: European Space Astronomy Center (ESAC). Madrid, Spain  
**Colloquium:** *Radio jets launched by strongly magnetic neutron stars*
- January: Netherlands Institute for Space Research (SRON). Utrecht, NL  
**Colloquium:** *The important role of outflows in X-ray binaries*
- 2018 October: University of Amsterdam. Amsterdam, NL  
**Colloquium:** *The launching, mass loss and power of X-ray binary outflows*
- April: New York University Abu Dhabi. Abu Dhabi, United Arab Emirates  
**Colloquium:** *Probing dense matter physics with neutron stars*
- 2017 January: Dutch astronomers member's council meeting. Amsterdam, NL  
**Colloquium:** *The appetite of a neutron star*
- 2016 October: IoA seminar. University of Cambridge, Cambridge, UK  
**Seminar:** *Probing the physics of neutron stars with X-ray observations*
- July: X-ray group seminar. University of Cambridge, Cambridge, UK  
**Seminar:** *An in-depth study of a neutron star accreting at low Eddington rate*
- April: X-ray group seminar. University of Cambridge, Cambridge, UK  
**Seminar:** *Disk reflection and a possible disk wind during the soft state of 1RXS J180408.9–342058*
- 2015 November: Gravity seminar. University of Southampton. Southampton, UK  
**Seminar:** *Probing fundamental physics with accreting neutron stars*
- November: X-ray group seminar. University of Cambridge, Cambridge, UK  
**Seminar:** *NuSTAR observations of neutron star low-mass X-ray binaries*
- October: Sabancı University. Istanbul, Turkey  
**Seminar:** *Crust cooling of neutron stars as a probe of fundamental physics*

- July: X-ray group seminar. University of Cambridge, Cambridge, UK  
**Seminar:** *Probing accretion flows with thermonuclear X-ray bursts*
- February: IoA seminar. University of Cambridge, Cambridge, UK  
**Seminar:** *Monitoring the supermassive black hole in the Milky Way Galaxy*
- 2014 October: High-energy astrophysics seminar. University of Michigan, Ann Arbor, USA  
**Seminar:** *Low-level accretion flows in X-ray binaries*
- October: Physics seminar. University of Michigan, Ann Arbor, USA  
**Seminar:** *Neutron stars as probes of fundamental physics*
- April: X-ray group seminar. University of Cambridge, Cambridge, UK  
**Seminar:** *Peeking into the crust of neutron stars*
- March: Astrophysics seminar. University of Southampton, Southampton, UK  
**Seminar:** *Probing fundamental physics with transiently accreting neutron stars*
- January: Max Planck institut für Extraterrestrische physik, Garching, Germany  
**Colloquium:** *Probing fundamental physics with transiently accreting neutron stars*
- 2013 March: Annual Hubble fellowship symposium. STScI, Baltimore, USA  
**Seminar:** *Feeding the supermassive black hole in the center of the Milky Way Galaxy*
- 2012 September: Astrophysics colloquium. Michigan State University, East Lansing, USA  
**Colloquium:** *Probing fundamental physics with transiently accreting neutron stars*
- April: Astrophysics seminar. University of Michigan, Ann Arbor, USA  
**Seminar:** *Probing fundamental physics with transiently accreting neutron stars*
- March: Annual Hubble fellowship symposium. STScI, Baltimore, USA  
**Seminar:** *Probing fundamental physics with transiently accreting neutron stars*
- February: Astrophysics seminar. University of Wisconsin, Milwaukee, USA  
**Seminar:** *Probing fundamental physics with transiently accreting neutron stars*
- 2009 November: Astrophysics colloquium. University of Leicester, UK  
**Colloquium:** *Crust cooling of accretion heated neutron stars*

## Full List of Contributed Conference Talks

- 2019 December: Texas 2019, Relativity at work: neutron stars. Portsmouth, UK  
**Talk:** *Probing the interior of transiently accreting neutron stars*
- 2014 August: The 40<sup>th</sup> COSPAR Scientific Assembly. Moscow, Russia  
**Talk:** *An accretion disk swept up by a powerful thermonuclear X-ray burst*
- August: The 40<sup>th</sup> COSPAR Scientific Assembly. Moscow, Russia  
**Talk:** *The Swift Monitoring Campaign of the Galactic center*
- March: Structure and Signal of Neutron Stars, from Birth to Death. Florence, Italy  
**Talk:** *Probing the crusts of transiently accreting neutron stars*
- 2013 November: JSI 2013 workshop, Putting Accretion Theory to the Test. Annapolis, USA  
**Talk:** *Swift J1910.2–0546: A new perspective on accretion flows*
- September: Chandra XVP meeting 2013. Santa Fe, USA  
**Talk:** *Update on the Swift monitoring campaign of the Galactic Center*
- April: High Energy Astrophysics Division (HEAD) 2013. Monterey, USA  
**Talk:** *The Swift monitoring campaign of Sagittarius A\**
- March: Compact Objects in Michigan. Wayne State University, Detroit, USA  
**Talk:** *The Swift monitoring campaign of Sagittarius A\**
- 2012 August: 28<sup>th</sup> IAU General Assembly, Beijing, China  
**Talk:** *A new breakthrough in understanding the crusts of neutron stars*
- August: 28<sup>th</sup> IAU General Assembly, Beijing, China  
**Talk:** *Seven years of nearly-daily observations of Sgr A\* with Swift*

- July: X-ray Binaries, Celebrating 50 years since the Discovery of Sco X-1. Boston, USA  
**Talk:** *Probing Fundamental Physics with Transiently Accreting Neutron Stars*
- June: CompStar 2012, The physics of compact stars. Tahiti, French Polynesia  
**Talk:** *A new breakthrough in understanding the crusts of neutron stars*
- 2011 October: Swift mission conference. Clemson, USA  
**Talk:** *Rare thermonuclear X-ray bursts caught by Swift*
- September: High Energy Astrophysics Division (HEAD) 2011. Newport (RI), USA  
**Talk:** *Probing fundamental physics with transiently accreting neutron stars*
- July: International conference Physics of Neutron Stars 2011. St. Petersburg, Russia  
**Talk:** *Transiently accreting neutron stars: peeking into their crusts*
- 2010 March: High Energy Astrophysics Division (HEAD) 2010. Hawaii Big Island, USA  
**Talk:** *Very-faint X-ray binaries*
- 2009 November: Swift mission conference: Celebrating five years. Penn State, USA  
**Talk:** *Swift as a key tool to study sub-luminous X-ray transients*
- June: NOVA Network III Science Meeting. Amsterdam, NL  
**Talk:** *Crust cooling of accretion heated neutron stars*
- 2008 July: The 37<sup>th</sup> COSPAR Scientific Assembly. Montreal, Canada  
**Talk:** *Sub-luminous X-ray transients near the Galactic center*

## Full List of Conference Organization

- 2022 June: **SOC Celebrating 100 years of astronomy research at the API.** Amsterdam, NL  
 May: **SOC The multi-messenger physics and astrophysics of neutron stars.** Rome, Italy
- 2021 June: **SOC The first Vasto accretion meeting.** Vasto, Italy [postponed due to covid-19]  
 May: **SOC Nederlandse Astronomen Conferentie.** Online
- 2020 August: **SOC Accretion on All Scales.** Sydney, Australia [cancelled due to covid-19]  
 August: **SOC Accretion and Ejection in Galactic Compact Objects.** Sydney, Australia [cancelled]
- 2019 October: **SOC New Horizons in Galactic Center Astronomy and Beyond.** Yokohama, Japan  
 July: **SOC chair From Winds to Jets: The Role of Outflows in X-ray Binaries.** Amsterdam, NL  
 May: **SOC chair Delving into the neutron star crust.** Amsterdam, NL
- 2018 October: **SOC Time-Domain Astrophysics with Swift.** Clemson, USA  
 June: **SOC Bursts and nuclei.** Prato, Italy
- 2017 October: **SOC Fermi 2017.** Garmisch-Partenkirchen, Germany  
 September: **SOC La Gomera Accretion Week.** La Gomera, Spain  
 June: **SOC The X-ray Universe 2017.** Rome, Italy  
 June: **SOC Exploring Neutron Star Structure by Timing and Spectroscopy.** Prague, Czech republic  
 February: **SOC The New Era of X-ray Astronomy.** London, UK
- 2016 August: **SOC Chandra Science for the Next Decade.** Boston, USA  
 August: **SOC Universal Accretion.** Aspen, USA  
 May: **SOC Stellar remnants.** Junction, USA  
 August: **SOC Accretion in neutron star and black hole X-ray binaries (cancelled).** Istanbul, Turkey  
 August: **SOC Crust cooling in accreting neutron stars and magnetars (cancelled).** Istanbul, Turkey
- 2015 June: **SOC 40 years of X-ray bursts.** Madrid, Spain
- 2011 September: **LOC First LOFT Science Meeting.** Amsterdam, NL
- 2009 May: **LOC Nederlandse Astronomen Conferentie.** Kerkrade, NL
- 2008 April: **SOC and LOC treasurer A decade of accreting millisecond X-ray pulsars.** Amsterdam, NL

## Full List of Observing Grants

- 2015 **Chandra**, *Probing the physics of neutron stars using Terzan 5*, USD 27 000  
**Swift**, *A Swift legacy: the monitoring campaign of the Galactic Center*, USD 40 000
- 2014 **HST**, *The nature of the transient X-ray binary Swift J1910.2–0546*, USD 50 000  
**HST**, *The evolutionary link between LMXBs and radio millisecond pulsars*, USD 50 000  
**Swift**, *A Swift legacy: the monitoring campaign of the Galactic Center*, USD 40 000  
**Chandra**, *The nature of the transient X-ray binary Swift J1910.2–0546*, USD 37 000
- 2013 **HST**, *The evolution and accretion morphology of Swift J1357.2–0933*, USD 51 000  
**Swift**, *A Swift legacy: the monitoring campaign of the Galactic Center*, USD 37 000  
**Swift**, *Crust cooling of accretion-heated neutron stars*, USD 36 000  
**Chandra**, *Observing a cooling neutron star crust in Terzan 5*, USD 57 000  
**XMM-Newton**, *The peculiar X-ray burster SAX J2224.9+5421*, USD 59 000
- 2012 **HST**, *The X-ray and UV spectra of EXO 0748–676*, USD 49 000  
**Chandra**, *The X-ray and UV spectra of EXO 0748–676*, USD 38 000  
**Chandra**, *A snapshot survey of Galactic Be/X-ray transients in quiescence*, USD 41 000  
**Chandra**, *Observations of a cooling neutron star crust in Terzan 5*, USD 49 000
- 2011 **Chandra**, *Quiescent monitoring of the 11 Hz X-ray pulsar in Terzan 5*, USD 46 000



## Full List of Accepted Observing Proposals as Principal Investigator

### Radio PI Proposals

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
A young stripped star in the intriguing binary LB-1?	VLA 2020B	2 hours
Swift/VLA monitoring of a giant Be/X-ray binary outburst	VLA 2019AB	6 hours
Jet outflows from a magnetic propeller	VLA 2017B	5 hours
The accretion flow properties of sub-luminous X-ray binaries	VLA 2017A	10 hours
X-ray/radio correlation for neutron star X-ray binaries	VLA 2014A	38 hours
X-ray/radio correlation for neutron star X-ray binaries	VLA 2013A	9 hours
The accretion-jet connection for neutron stars	ATCA 2017B	84 hours
DDT to search for the radio counterpart of GRO J1744–28	ATCA 2017A	8 hours
The accretion-outflow connection for neutron stars	ATCA 2016A	12 hours

### Optical/near-infrared PI Proposals

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
An accretion disk wind across the electromagnetic spectrum	VLT 2022A	3 hours
Mapping accretion disk winds across the electromagnetic spectrum	VLT 2020A	4 hours
Feedback from low-mass X-ray binaries into the ISM	VLT 2019A	3 hours
Unravelling unusual accreting neutron stars and black holes	VLT 2018A	3 hours
Unravelling unusual accreting neutron stars and black holes	VLT 2017A	3 hours
DDT for a rare chance to identify an unusual black hole system	NTT 2019B	4.5 hours
Feedback from low-mass X-ray binaries into the ISM	INT 2018B	7 nights
Disruption of a gas cloud by the supermassive black hole Sgr A*	Magellan 2014B	1 night
Disruption of a gas cloud by the supermassive black hole Sgr A*	Magellan 2014A	1 night
Infrared spectroscopy of sub-luminous neutron star X-ray binaries	Magellan 2014A	3 nights
Disruption of a gas cloud by the supermassive black hole Sgr A*	Magellan 2013B	4 nights
Infrared imaging of sub-luminous neutron star X-ray binaries	Magellan 2013A	3 nights
Optical spectroscopy of MAXI J1305–704 and Cen X-4	Magellan 2012A	1 nights
Sub-luminous X-ray binaries TOO	SMARTS 2009B	0.4 nights

### Ultraviolet PI Proposals

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
An accretion disk wind across the electromagnetic spectrum	HST cycle 29	6 orbits
DDT for UV spectroscopy of a short-period black hole in outburst	HST cycle 24	4 orbits
A radio millisecond pulsar in a low-mass X-ray binary?	HST cycle 24	4 orbits
The nature of the transient black hole candidate Swift J1910.2–0546	HST cycle 22	2 orbits
The evolutionary link between LMXBs and MSRPs	HST cycle 22	6 orbits
Evolution and accretion morphology of short-period black hole	HST cycle 21	9 orbits
The quiescent UV spectrum of the neutron star EXO 0748–676	HST cycle 20	9 orbits

## X-ray PI Proposals

<i>Proposal Description</i>	<i>Observatory/cycle</i>	<i>Time</i>
An unexplored regime of neutron star heating and cooling	Chandra AO22	500 ks
An unexplored regime of neutron star heating and cooling	Chandra AO20	90 ks
DDT on outflows from a nearby super-Eddington accretor	Chandra AO19	25 ks
The very cold neutron star in HETE J1900.1–2455	Chandra AO19	55 ks
New progress in understanding the crusts of neutron stars	Chandra AO18	60 ks
DDT on the very cold neutron star in HETE J1900.1–2455	Chandra AO17	30 ks
Probing physics of neutron stars using Terzan 5	Chandra AO17	135 ks
DDT on the accretion disk wind in 1RXS J180408.9–342058	Chandra AO16	30 ks
The nature of the transient X-ray binary Swift J1910.2–0546	Chandra AO16	45 ks
A cooling neutron star crust in Terzan 5	Chandra AO15	105 ks
Neutron star X-ray binary EXO 0748–676 in quiescence	Chandra AO15	45 ks
A cooling neutron star crust in Terzan 5	Chandra AO14	135 ks
Quiescent monitoring 11-Hz X-ray pulsar in Terzan 5	Chandra AO13	100 ks
DDT to detect a cooling neutron star crust in Terzan 5	Chandra AO12	40 ks
Neutron star crust cooling EXO 0748–676	Chandra AO11–AO12	40 ks
Neutron star crust cooling TOO on HETE J1900.1–2455	Chandra AO11–AO12	90 ks
Crust cooling TOO HETE J1900.1–2455 + Swift J1626.6–5156	Chandra AO9–AO10	120 ks
DDT to localize XMMUJ174716.1–281048	Chandra AO8	1 ks
Linking jet suppression to accretion geometry	NuSTAR AO4	60 ks
Testing disk truncation for accreting neutron stars	NuSTAR AO4	60 ks
DDT on jet suppression and accretion geometry	NuSTAR AO3	20 ks
DDT on the “moding” of the transitional pulsar PSR J1023+0038	NuSTAR AO3	25 ks
An accretion disk wind at low Eddington rate?	NuSTAR AO2	75 ks
DDT to search for disk reflection in 4U 1608–52	NuSTAR AO1	40 ks
How neutron stars accrete at low Eddington rates	NuSTAR AO1	75 ks
DDT to search for disk reflection in MXB 1659–28	NuSTAR AO1	50 ks
DDT observations of various transient X-ray binaries, 77 in total	Swift AO6–AO15	362 ks
Swift/VLA monitoring of a giant Be/X-ray binary outburst	Swift AO15	20 ks
Testing disk truncation for accreting neutron stars	Swift AO14	11 ks
X-ray monitoring of Sgr A* during the Event Horizon Telescope	Swift AO13	52 ks
The accretion flow properties of sub-luminous X-ray binaries	Swift AO13	30 ks
Galactic center monitoring campaign	Swift AO9–AO19	248 ks
Neutron star crust cooling TOO	Swift AO6–AO13	60 ks
Galactic center monitoring campaign	Swift AO6–AO8	81 ks
An accretion disk wind across the electromagnetic spectrum	XMM AO21	120 ks
The nature of the compact accretor in exotic X-ray binaries	XMM AO17	100 ks
An accretion disk wind at low Eddington rate?	XMM AO15	70 ks
Neutron star crust cooling in 1RXS J180408.9–342058	XMM AO15	70 ks
DDT to search for crust cooling in 1RXS J180408.9–342058	XMM AO14	30 ks
The nature of the transient black hole candidate Swift J1910.2–0546	XMM AO13	60 ks
DDT to search for crust cooling in RX J1709–267	XMM AO12	30 ks
Peculiar X-ray burster SAX J2224.9+5421 in quiescence	XMM AO10 + AO12	50 ks
Accreting millisecond pulsar Swift J1749.4–2807 in quiescence	XMM AO9 + AO10	100 ks
Sub-luminous X-ray binary AX J1754.2–2754	XMM AO7 + AO9	35 ks
Sub-luminous X-ray binaries in outburst	RXTE AO13–AO14	100 ks

## Full Overview of Teaching Activities

### Lecture series

2022–present	Lecturer and coordinator <i>Proposal writing</i> , MSc students. U. of Amsterdam
2020	Co-lecturer <i>Structure and Evolution of Stars</i> , MSc students. U. of Amsterdam
2020–present	Lecturer and coordinator <i>Astrophysics</i> , BSc students (year 2). U. of Amsterdam
2019	Co-lecturer <i>Astrophysics</i> , BSc students (year 2). U. of Amsterdam

### Guest and substitute lectures

2019–2021	Guest lecturer <i>Compact Objects</i> , BSc students (year 3). U. of Amsterdam
2017	Guest lecturer <i>Open Problems</i> , MSc students. U. of Amsterdam
2017	Substitute lecturer <i>Astrophysics</i> , BSc students (year 3). U. of Amsterdam
2012	Guest lecturer <i>High Energy Universe</i> , PhD students. U. of Michigan
2009	Substitute lecturer <i>Compact Objects</i> , BSc students (year 3). U. of Amsterdam
2008, 2009	Guest lecturer <i>Orientation</i> , BSc students (year 3). U. of Amsterdam

### Supervision of Master Research

2022	Astrovaria (6 ECTS), Ms. E. Caruso, U. of Amsterdam
2021–2022	MSc research project (60 ECTS), Mr. K. Zafeiropoulos, U. of Amsterdam
2021–2022	MSc research project (60 ECTS), Mr. G. Zervas, U. of Amsterdam
2020–2021	Post-MSc research project (7 months), Mr. J. van Opijnen, U. of Amsterdam. Funded by my Vidi research grant. Now doing missionaries work.
2020–2021	MSc research project (60 ECTS), Ms. L. van Haastere, U. of Amsterdam Now PhD student in astronomy at Leiden University
2020	Astrovaria (6 ECTS), Ms. J. Kleverlaan, U. of Amsterdam
2020	Astrovaria (6 ECTS), Ms. S. Fijma, U. of Amsterdam
2020	Astrovaria (6 ECTS), Mr. J. Groot, U. of Amsterdam
2020	Astrovaria (6 ECTS), Ms. M. van Etten, U. of Amsterdam
2019–2021	Post-MSc research project, Mr. Osman Ahmed, Debre Tabor University, Ethiopia
2019–2020	MSc research project (60 ECTS), Mr. M. Stoop, U. of Amsterdam Now PhD student in astronomy at the U. of Amsterdam
2018–2019	MSc research project (60 ECTS), Ms. M. Georganti, U. of Amsterdam Now PhD student in astronomy at the U. of Southampton, UK
2018	ERASMUS+ research project (4 months), Ms. E. López, U. of Amsterdam Now PhD student in astronomy at the U. of Valparaíso, Chile
2017	ERASMUS+ research project (3 months), Mr. A. Marino, U. of Amsterdam Now PhD student in astronomy at the U. of Palermo, Italy
2009–2010	MSc research project (60 ECTS), Dr. S. Broerse, U. of Amsterdam PhD in astronomy, now Business Intelligence and Analytics Manager at Deloitte

### Supervision of Undergraduate Research

2022	BSc research project (15 ECTS), Mr. D. de Rijk, U. of Amsterdam
2021–2022	Graduation project Fontys Eindhoven College of Applied Physics (5 months) Ms. S. Schot, U. of Amsterdam
2021	BSc research project (15 ECTS), Mr. M. Petrus, U. of Amsterdam
2021	BSc research project (15 ECTS), Mr. S. van Eeden, U. of Amsterdam
2019	ASPIRE research project (2 months), Mr. Alexis Andres, U. of Amsterdam
2019	BSc research project (15 ECTS), Ms. S. Fijma, U. of Amsterdam
2019	BSc research project (15 ECTS), Ms. J. Kleverlaan, U. of Amsterdam
2019	BSc research project (15 ECTS), Ms. M. van Etten, U. of Amsterdam
2019	BSc research project (15 ECTS), Mr. J. Groot, U. of Amsterdam
2018	BSc research project (15 ECTS), Mr. B. Belhach, U. of Amsterdam
2018	BSc research project (15 ECTS), Mr. L. Kok, U. of Amsterdam
2018	BSc research project (15 ECTS), Mr. M. Rustenburg, U. of Amsterdam
2015	Summer research project (2 months), Ms. A.C. Waterhouse, U. of Cambridge
2009	BSc research project (15 ECTS), Mr. O. Gurney-Champion, U. of Amsterdam
2008	BSc research project (15 ECTS), Mr. S. Westerhout, U. of Amsterdam

Journal abbreviations used: ApJ = Astrophysical Journal, A&A = Astronomy & Astrophysics, MNRAS = Monthly Notices of the Royal Astronomical Society, A&G = Astronomy & Geophysics, ATel = Astronomer's Telegram, JApA = Journal of Astrophysics and Astronomy, SCPMA = Science China Physics, Mechanics & Astronomy.

## Review Papers: First Author

- 2022 **Degenaar, N.**, Wijnands, R. & Maccarone, T.M., invited review for New Astronomy Reviews  
*Low-level accretion in low-mass X-ray binaries*
- 2018 **Degenaar, N.** & Suleimanov, V., book chapter in “The physics and astrophysics of neutron stars”, Springer book collection on Astronomy and Astrophysics Library, arXiv:1806.02833  
*Testing the equation of state with electromagnetic observations*
- Degenaar, N.**, Ballantyne, D.R., Belloni, T., Chakraborty M., Chen, Y.-P., Ji, L., Kretschmar P., Kuulkers, E., Li, J., Maccarone, T.J., Malzac J., Zhang, S., Zhang, S.-N., 2018, Space Science Reviews 214, 15  
*Accretion disks and coronae in the X-ray flashlight*
- 2015 **Degenaar, N.**, Wijnands, R., Miller, J.M., Reynolds, M.T., Kennea, J.A., Gehrels, N., 2015, JHEAp 7, 137  
*The Swift X-ray monitoring campaign of the center of the Milky Way*

## Review Papers: Co-Author

- 2022 Neilsen, J. & **Degenaar, N.**, book chapter in High-resolution X-ray spectroscopy, Springer  
*Disk winds in Galactic X-ray binaries*
- 2021 Bahramian, A. & **Degenaar, N.**, book chapter in Handbook of X-ray and Gamma-ray Astronomy, Springer  
*Phenomenology and populations of low-mass X-ray binaries*
- 2017 Wijnands, R., **Degenaar, N.**, & Page, D., 2017, JApA 38, 49  
*Crust cooling of accretion-heated neutron stars*
- Middleton, M., Casella, P., Gandhi, P., Bozzo, E., Anderson, G., **Degenaar, N.**, Donnarumma, I., Israel, G., Knigge, C., Lohfink, A., Markoff, S., Marsh, T., Rea, N., Tingay, S., Wiersema, K., Altamirano, D., Bhat-tacharya, D., Brandt, W., Carey, S., Charles, P., Diaz Trigo, M., Done, C., Kotze, M., Marsh, T., Eikenberry, S., Fender, R., Ferruit, P., Fuerst, F., Greiner, J., Ingram, A., Heil, L., Jonker, P., Komossa, S., Leibundgut, B., Maccarone, T., Malzac, J., McBride, V., Miller-Jones, J., Page, M., Maria Rossi, E., Russell, D., Shahbaz, T., Sivakoff, G., Tanaka, M., Thompson, D., Uemura, M., Uttley, P., van Moorsel, G., Van Doesburgh, M., Warner, B., Wilkes, B., Wilms, J., Woudt, P., 2017, New Astronomy Reviews 79, 28  
*Paving the way to simultaneous multi-wavelength astronomy*

## Refereed Journals: First Author

- 2021 **Degenaar, N.**, Page, D., Beznogov, M.V., van den Eijnden, J., Wijnands, R., Reynolds, M., MNRAS 508, 882  
*Constraining the properties of dense neutron star cores: The case of the X-ray binary HETE J1900.1–2455*
- 2019 **Degenaar, N.**, Ootes, L.S., Page, D., Wijnands, R., Parikh, A., Homan, J., Cackett, E.M., Miller, J.M., Altamirano, D., Linares, M., 2019, MNRAS 488, 4477  
*Crust cooling of the neutron star in Aql X-1: Different depth and magnitude of shallow heating during similar accretion outbursts*
- 2017 **Degenaar, N.**, Ootes, L.S., Reynolds, M.T., Wijnands, R., Page, D., 2017, MNRAS Letters 465, L10  
*A very cold neutron star crust in the transiently accreting millisecond X-ray pulsar HETE J1900.1–2455 after 10 years of active accretion*
- Degenaar, N.**, Pinto, C., Miller, J.M., Fabian, A.C., Wijnands, R., Altamirano, D., Chakraborty, D., Paerels, F., 2017, MNRAS 464, 398  
*An in-depth study of a neutron star accreting at low Eddington rate: On the possibility of a truncated disk and outflows*

- 2016 **Degenaar, N.**, Altamirano, D., Parker, M., Miller-Jones, J.C.A., Miller, J.M., Heinke, C.O., Wijnands, R., Ludlam, R., Parikh, A., Hessels, J.W.T., Gusinskaia, N., Deller, A., Fabian, A.C. 2016, MNRAS 461, 4049  
*Disk reflection and a possible disk wind during a soft X-ray state in the neutron star low-mass X-ray binary 1RXS J180408.9–342058*
- Degenaar, N.**, Koljonen, K.I.I, Chakrabarty, D., Kara, E., Altamirano, D., Miller, J.M., Fabian, A.C., 2016, MNRAS 456, 4256  
*Probing the effects of a thermonuclear X-ray burst on the neutron star accretion flow with NuSTAR*
- 2015 **Degenaar, N.**, Miller, J.M., Chakrabarty, D., Harrison, F.A., Kara, E., Fabian, A., 2015, MNRAS Letters 451, L85  
*NuSTAR detection of disk reflection from close to the neutron star in 4U 1608–52*
- Degenaar, N.**, Wijnands, R., Brown, E.F., Cumming, A.C., Cackett, E.M., Fridriksson, J., Homan, J., Miller, J.M., Heinke, C.O., Bahramian, A., Sivakoff, G.R., Altamirano, D., Pooley, D., 2015, MNRAS 451, 2071  
*Neutron star crust cooling in the Terzan 5 X-ray transient Swift J174805.3–244637*
- 2014 **Degenaar, N.**, Miller, J.M., Harrison, F.A., Kennea, J.A., Kouveliotou, C., Younges, G., 2014, ApJ Letters 796, L9  
*High-resolution X-ray spectroscopy of the bursting pulsar GRO J1744–28*
- Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Altamirano, D., Kennea, J.A., Gehrels, N., Haggard, D., Ponti, G., 2014, ApJ, 792, 109  
*The peculiar galactic center neutron star X-ray binary XMM J174457–2850.3*
- Degenaar, N.**, Medin, Z., Cumming, A., Wijnands, R., Wolff, M.T., Cackett, E. M., Miller, J. M., Jonker, P. G., Homan, J., Brown, E. F., 2014 ApJ, 791, 47  
*The neutron star crust cooling curve of EXO 0748–676*
- Degenaar, N.**, Wijnands, R., Miller, J. M., 2014, ApJ, 787, 67  
*The quiescent counterpart of the peculiar X-ray burster SAX J2224.9+5421*
- Degenaar, N.**, D. Maitra, E.M. Cackett, M.T. Reynolds, J.M. Miller, R.C. Reis, A.L. King, K.Gültekin, C.D. Bailyn, M.M. Buxton, R. MacDonald, A.C. Fabian, D.B. Fox, E.S. Rykoff, 2014, ApJ, 784, 122  
*Multi-wavelength monitoring of the new candidate black hole X-ray binary Swift J1910.2–0546*
- 2013 **Degenaar, N.**, Wijnands, R., Brown, E. F., Altamirano, D., Cackett, E. M., Fridriksson, J., Homan, J., Heinke, C. O., Miller, J. M., Pooley, D., Sivakoff G. R., 2013, ApJ 775, 48  
*Continued neutron star crust cooling of the 11 Hz X-ray pulsar in Terzan 5*
- Degenaar, N.**, Miller, J. M., Kennea, J. A., Gehrels, N., Reynolds, M. T., Wijnands, R., 2013, ApJ, 769, 155  
*The X-ray flaring properties of Sgr A\* during six years of monitoring with Swift*
- Degenaar, N.**, Miller, J. M., Wijnands, R., Altamirano, D., Fabian, A. C., 2013, ApJ Letters 767, L37  
*X-ray emission and absorption features during an energetic thermonuclear X-ray burst from IGR J17062–6143*
- Degenaar, N.**, Wijnands, R., Miller, J. M., 2013, ApJ Letters 767, L31  
*A direct measurement of the heat release in the outer crust of the transiently accreting neutron star XTE J1709–267*
- 2012 **Degenaar, N.**, Linares, M., Altamirano, D., Wijnands, R., 2012, ApJ 759, 8  
*Two new bursting neutron star low-mass X-ray binaries: Swift J185003.2–005627 and Swift J1922.7–1716*
- Degenaar, N.**, Wijnands, R., Cackett, E. M., Homan, J., in 't Zand, J. J. M., Kuulkers, E., Maccarone, T. J., van der Klis, M., 2012, A&A 545, 49  
*A four-year Chandra/XMM-Newton monitoring campaign of the Galactic center: analyzing the X-ray transients*
- Degenaar, N.**, Patruno, A., Wijnands, R., 2012, ApJ, 756, 148  
*The quiescent X-ray properties of the accreting millisecond X-ray pulsar and eclipsing binary Swift J1749.4–2807*
- Degenaar, N.**, Starling, R.L.C., Evans, P.A., Beardmore, A.P., Burrows, D.N., Cackett, E.M., Campana, S., Grupe, D., Kennea, J., Moretti, A., Pagani, C., Page, K.L., La Parola, V., Wijnands, R., 2012, A&A 540, 22  
*Swift follow-up observations of unclassified ASCA sources*
- Degenaar, N.**, Wijnands, R., 2012, MNRAS 422, 581  
*Strong X-ray variability during the quiescent state of the neutron star low-mass X-ray binary EXO 1745–248*

- 2011 **Degenaar, N.**, Brown, E. F., Wijnands, R., 2011, MNRAS Letters 418, L152  
*Evidence for crust cooling in the transiently accreting 11-Hz X-ray pulsar in the globular cluster Terzan 5*
- Degenaar, N.**, Wijnands, R., Kaur, R., 2011, MNRAS Letters 414, L104  
*Swift detection of an intermediately long X-ray burst from the very faint X-ray binary XMMU J174716.1–281048*
- Degenaar, N.**, & Wijnands, R., 2011, MNRAS Letters 414, L50  
*The accretion-heated crust of the transiently accreting 11-Hz X-ray pulsar in the globular cluster Terzan 5*
- Degenaar, N.**, & Wijnands, R., 2011, MNRAS Letters 412, L68  
*The soft quiescent spectrum of the 11 Hz pulsar in Terzan 5*
- Degenaar, N.**, Wolff, M. T., Ray, P. S., Wood, K. S., Homan, J., Lewin, W. H. G., Jonker, P. G., Cackett, E. M., Miller, J. M., Brown, E. F., Wijnands, R., 2011, MNRAS 412, 1409  
*Further X-ray observations of EXO 0748–676 in quiescence: evidence for a cooling neutron star*
- 2010 **Degenaar, N.**, & Wijnands, R., 2010, A&A 524, 69  
*A four-year baseline Swift study of enigmatic X-ray transients located near the Galactic center*
- Degenaar, N.**, Jonker, P.G., Kaur, R., Rea, N., Israel, G. L., Patruno, A., Trap, G., Cackett, E.M., D’Avanzo, P., Lo Curto, G., Torres, M. A. P., Novara, G., Krimm, H., Holland, S.T., De Luca, A., Esposito, P., Wijnands, R., 2010, MNRAS 404, 1591  
*Multi-wavelength observations of 1RXH J173523.7–354013: revealing an unusual bursting neutron star*
- 2009 **Degenaar, N.**, Wijnands, R., Wolff, M. T., Ray, P. S., Wood, K. S., Homan, J., Lewin, W. H. G., Jonker, P. G., Cackett, E. M., Miller, J. M., Brown, E. F., 2009, MNRAS Letters 396, L26  
*Chandra and Swift observations of the quasi-persistent neutron star transient EXO 0748–676 back to quiescence*
- Degenaar, N.**, & Wijnands, R., 2009, A&A 495, 547  
*The behavior of sub-luminous X-ray transients near the Galactic center as observed using the X-ray telescope aboard Swift*

#### Refereed Journals: Co-author

- 2022 Maccarone, T.J., **Degenaar, N.**, Tetarenko, B.E., Heinke, C.O., Wijnands, R., Sivakoff, G.R., 2022, MNRAS 512, 2365  
*On the recurrence times of neutron star X-ray binary transients and the nature of the Galactic Centre quiescent X-ray binaries*
- Armas Padilla, M., Rodríguez-Gil, P., Muñoz-Darias, T., Torres, M.A.P., Casares, J. **Degenaar, N.**, Dhillon, V.S., Heinke, C.O., Littlefair, S.P.; Marsh, T.R., 2022, ApJ Letters 931, L9  
*A Tentative 114 minute Orbital Period Challenges the Ultracompact Nature of the X-Ray Binary 4U 1812–12*
- Akiyama, K. et al. (337 authors), 2022, ApJ Letters 930, L13  
*First Sagittarius A\* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration*
- Akiyama, K. et al. (389 authors), 2022, ApJ Letters 930, L12  
*First Sagittarius A\* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way*
- Fijma, S., van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Miller-Jones, J.C.A., 2022, submitted to MNRAS, arXiv2204.10910  
*Evaluating the jet/accretion coupling of Aql X-1: probing the contribution of accretion flow spectral components*
- Scaringi, S., Groot, P.J., Knigge, C., Bird, A.J., Breedt, E., Buckley, D.A.H., Cavecchi, Y., **Degenaar, N.**, de Martino, D., Done, C., Fratta, M., Ilkiewicz, K., Koerding, E., Lasota, J.-P., Littlefield, C., Manara, C. F., O’Brien, M., Szkody, P., Timmes, F. X., 2022, Nature 604, 447  
*Localized thermonuclear bursts from accreting magnetic white dwarfs*
- Castro Segura, N., Knigge, C., Long, K.S., Altamirano, D., Armas Padilla, M., Bailyn, C., Buckley, D.A.H., Buisson, D.J.K., Casares, J., Charles, P., Combi, J.A., Cúneo, V. A., **Degenaar, N.**, del Palacio, S., Díaz Trigo, M., Fender, R., Gandhi, P., Georganti, M., Gutiérrez, C., Hernández Santisteban, J.V., Jiménez-Ibarra, F., Matthews, J., Méndez, M., Middleton, M., Muñoz-Darias, T., Özbey Arabac?, M., Pahari, M., Rhodes, L.,

- Russell, T.D., Scaringi, S., van den Eijnden, J., Vasilopoulos, G., Vincentelli, F.M., Wiseman, P., 2022, *Nature* 603, 52  
*A persistent ultraviolet outflow from an accreting neutron star binary transient*
- Page, D., Homan, J., Nava-Callejas, M., Cavecchi, Y., Beznogov, M.V., **Degenaar, N.**, Wijnands, R., Parikh, A.S., 2022, to appear in *ApJ*, arXiv2202.03962  
*A "Hyperburst" in the MAXI J0556-332 neutron star: Evidence for a new type of thermonuclear explosion*
- Andés, A., van den Eijnden, J., **Degenaar, N.**, Evans, P.A., Reynolds, M., Miller, J.M., Kennea, J., Wijnands, R., Markoff, S., Altamirano, D., Heinke, C.O., Bahramian, A., Ponti, G., Haggard, D., 2022, *MNRAS* 510, 2851  
*A Swift study of long-term changes in the X-ray flaring properties of Sagittarius A\**
- 2021 Russell, T.D., **Degenaar, N.**, van den Eijnden, J., Del Santo, M., Segreto, A., Altamirano, D., Beri, A., Díaz Trigo, M., Miller-Jones, J.C.A., 2021, *MNRAS Letters* 508, L6  
*The evolving radio jet from the neutron star X-ray binary 4U 1820–30*
- van den Eijnden, J., **Degenaar, N.**, Russell, T.D., Wijnands, R., Miller-Jones, J.C.A., Hernández Santisteban, J.V., Gallo, E., Atri, P., Plotkin, R.M., Maccarone, T.J., Sivakoff, G.R., Miller, J.M., Reynolds, M., Russell, D.M., Maitra, D., Heinke, C.O., Armas Padilla, M., Bahramian, A., Shaw, A.W., Rupen, M.P., 2021, *MNRAS* 507, 3899  
*A new radio census of neutron star X-ray binaries*
- Stoop, M., van den Eijnden, J., **Degenaar, N.**, Bahramian, A., Swihart, S.J., Strader, J., Jiménez-Ibarra, F., Muñoz-Darias, T., Armas Padilla, M., Shaw, A.W., Maccarone, T.J., Wijnands, R., Russell, T.D., Hernández Santisteban, J.V., Miller-Jones, J.C.A., Russell, D.M., Maitra, D., Heinke, C.O., Sivakoff, G.R., Lewis, F., Bramich, D.M., 2021, *MNRAS* 507, 330  
*Multiwavelength observations reveal a faint candidate black hole X-ray binary in IGR J17285–2922*
- Joadand, A., Hernández Santisteban, J.V., Archibald, A., Hessels, J.W.H., Bogdanov, S., Knigge, C., **Degenaar, N.**, Deller, A., Scaringi, S., Patruno, A., to appear in *ApJ*, arXiv:2102.13145  
*Discovery of UV millisecond pulsations and moding in the the low-mass X-ray binary state of the transitional millisecond pulsar PSR J1023+0038*
- Kretschmar, P., El Mellah, I., Martínez-Núñez, S., Fürst, F., Grinberg, V., Sander, A.A.C., van den Eijnden, J., **Degenaar, N.**, Maíz Apellániz, J., Jiménez Esteban, F., Ramos-Lerate, M., Utrilla, E., 2021, *A&A* 652, 95  
*Revisiting the archetypical wind accretor Vela X-1 in depth*
- Buisson, D.J.K., Altamirano, D., Armas Padilla, M., Arzoumanian, Z., Bult, P., Castro Segura, N., Charles, P., **Degenaar, N.**, Díaz Trigo, M., van den Eijnden, J., Fogantini, F., Gandhi P., Gendreau, K., Hare, J., Homan, J., Knigge, C., Malacaria, C., Méndez, M., Muñoz Darias, T., Ng, M. Özbey Arabac?, M., Remillard, R., Strohmayer, T. E., Tombesi, F., Tomsick, J. A., Vincentelli, F., Walton, D. J., 2021, *MNRAS* 503, 5600  
*Dips and eclipses in the X-ray binary Swift J1858.6–0814 observed with NICER*
- Ilkiewicz, K., Scaringi, S., Court, J.M.C., Maccarone, T.J., Altamirano, D., Bradshaw, C.W., **Degenaar, N.**, Fratta, M., Littlefield, C., Shahbaz, T., Wijnands, R., 2021, *MNRAS* 503, 4050  
*Exploring the tilted accretion disc of AQ Men with TESS*
- Ludlam, R.M., Joadand, A.D., García, J.A., **Degenaar, N.**, Tomsick, J. A., Cackett, E.M., Fabian, A.C., Gandhi, P., Buisson, D.J.K., Shaw, A.W., Chakrabarty, D., 2021, *ApJ* 911, 123  
*Simultaneous NICER and NuSTAR Observations of the Ultra-compact X-ray Binary 4U 1543–624*
- Bahramian, A., Heinke, C.O., Kennea, J. A., Maccarone, T.J., Evans, P. A., Wijnands, R., **Degenaar, N.**, in 't Zand, J. J. M., Shaw, A.W., Rivera Sandoval, L.E., McClure, S., Tetarenko, A.J., Strader, J., Kuulkers, E., Sivakoff, G.R., 2021, *MNRAS* 501, 2790  
*The Swift Bulge Survey: Motivation, strategy, and first X-ray results*
- Parikh, A.S., **Degenaar, N.**, Santisteban, J. V. Hernández, Wijnands, R., Psaradaki, I., Costantini, E., Modiano, D., Miller, J.M., 2021, *MNRAS* 501, 1453  
*UV and X-ray observations of the neutron star LMXB EXO 0748-676 in its quiescent state*
- de Haas, S.E.M., Russell, T.D., **Degenaar, N.**, Markoff, S., Tetarenko, A.J., Tetarenko, B.E., van den Eijnden, J., Miller-Jones, J.C.A., Parikh, A.S., Plotkin, R.M., Sivakoff, G.R., 2021, *MNRAS* 502, 521  
*Disk-jet coupling changes as a possible indicator for outbursts from GX 339–4 remaining within the X-ray hard state*

- 2020 Armas Padilla, M., Muñoz-Darias, T., Jiménez-Ibarra, F., Fernández-Ontiveros, J. A., Casares, J., Torres, M.A.P., García-Rojas, J., Cúneo, V. A., **Degenaar, N.**, 2020, *A&A* 644, 63  
*Optical spectroscopy of 4U 1812–12: An ultra-compact X-ray binary seen through an H II region*
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- Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2020, ATel 13683  
*Swift/XRT detects a new outburst of the Galactic Center transient GRS 1741.9–2853*
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- 2019 **Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2019, ATel 13150  
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- 2018 **Degenaar, N.**, Wijnands, R., Reynolds, M.T., Miller, J.M., Kennea, J.A., on behalf of a larger collaboration, 2018, ATel 11263  
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*The Galactic center transient Swift J174535.5–285921 has returned to quiescence*
- Degenaar, N.**, Wijnands, R., Kennea, J. A., Gehrels, N., 2011, ATel 3472  
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