
Educational Background

- 2017–present **PhD candidate in astrophysics**, Anton Pannekoek Institute, University of Amsterdam, The Netherlands, Subject: the deaths and afterlives of stars stripped in binary systems.
- 2016–2017 **Master student in physics**, Eberhard Karls Universität Tübingen, Germany, Specialization: High Energy Astrophysics; Subject: "Spectral and timing properties of the Be X-ray binary EXO 2030+375"; Degree: Master of Science (achieved the maximum grade of 1.0).
- 2011–2015 **Bachelor student in physics**, Eberhard Karls Universität Tübingen, Germany, Specialization: astronomy and astrophysics; Subject: "Long-term variability of Be X-ray binaries"; Degree: Bachelor of Science (average grade: 1.8).
- 2008–2011 **International high school student**, Lycée International des Pontonniers, Strasbourg, France; Degrees: Baccalauréat (French diploma) and Abitur (German diploma).

Research Experience

- November 2017 – present PhD project on theoretical modeling of stripped-envelope supernovae from massive binaries. Advisors: Prof. Selma de Mink, Prof. Stephen Justham
- September – October 2019 Invited research visit at the National Astronomical Observatory of Japan, Tokyo, Japan. Work on Bayesian inference of stripped-envelope supernovae light-curves with Prof. Takashi Moriya
- April 2016–October 2016 Short-term International Program Associate (IPA) in the MAXI team laboratory at RIKEN, Saitama, Japan. Subject: "Spectral and timing properties of the Be X-ray binary EXO 2030+375". Advisors: Prof. Andrea Santangelo, Dr. Tatehiro Mihara
- January 2016–March 2016 Student trainee in the MAXI team laboratory at RIKEN, Saitama, Japan. Subject: "Spectral and timing properties of the Be X-ray binary EXO 2030+375". Advisors: Prof. Andrea Santangelo, Dr. Tatehiro Mihara
- August 2015–November 2015 Trainee-ship in the European Space Astronomy Centre, Madrid, Spain. Subject: "Long-term variability of Be X-ray binaries". Advisors: Dr. Peter Kretschmar, Emilio Salazar, Prof. Andrea Santangelo

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- July 2014–October 2014 Trainee-ship in the European Space Astronomy Centre, Madrid, Spain, Project: "Developing **The BeXRB monitor**, a web-based tool for astronomical discovery", Advisors: Dr. Peter Kretschmar, Emilio Salazar, Miguel Arregui.
- October 2013–July 2015 Research assistant at the Institut für Astronomie und Astrophysik, Universität Tübingen: Study of hardness-luminosity dependence in transient accreting pulsars from observations of SWIFT/BAT, MAXI and RXTE/ASM, Advisor: Dr. Dmitry Klochkov

Grants, successful proposals, and scholarships

- 2018-2020 Total of 2800 Euro awarded for conferences and research visits abroad through the LKBF fund, NL
- 2019 90,000 JPY awarded to visit the Yukawa International workshop "Neutron stars and black holes with gravitational waves" at the Yukawa Institute for Theoretical Physics, Kyoto, Japan
- 2019 700 USD awarded to visit the Spring symposium at the Space Telescope Science Institute, Baltimore, USA
- 2018 PI: E. Laplace; "Stripped-envelope supernovae from massive binaries", pilot program of 500 000 CPU hours, the Dutch national supercomputer Cartesius, Amsterdam, The Netherlands
- 2016 Short-term International Program Associate (IPA) scholarship RIKEN, Japan

Scientific talks

- September 2019 Monthly R-ASTRO seminar at RIKEN, Saitama, Japan (title: Life and deaths of stars stripped in massive binaries: consequences for supernovae and gravitational wave sources)
- September 2019 Lunch seminar, National Astronomical Observatory of Japan, Tokyo, Japan (title: Life and deaths of stars stripped in massive binaries: Consequences for supernovae and gravitational wave sources)
- May 2019 Fifty-one ergs conference, University of North Carolina, Raleigh, USA (title: From stripped stars to gravitational waves)
- April 2019 Spring symposium of the Space Telescope Science Institute, Baltimore, USA (title: The size of stripped-envelope supernovae progenitors and its impact on gravitational wave events)
- November 2018 Massive stars and Supernovae conference, Bariloche, Argentina (title: Exploding stripped stars)
- October 2018 Bonn-Amsterdam-Leuven massive stars meeting, Leuven, Belgium (title: Exploding stripped stars)
- August 2018 Galaxy coffee seminar MPA Heidelberg, Germany (title: Exploding stripped stars)

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- September 2016 Fall meeting of the Astronomical Society of Japan at Ehime University, Matsuyama, Japan (title: A long-term periodicity in EXO 2030+375?)
- March 2016 Monthly R-ASTRO seminar at RIKEN, Saitama, Japan (title: A long-term periodicity in EXO 2030+375?)
- August 2015 Tech Talk seminar at ESAC, Madrid, Spain (title: the BeXRB monitor)

Conferences, workshops, and research visits

- October 2019 Research visit of Prof. Sung-Chul Yoon at Seoul National University, Seoul, South Korea
- 7 –11 October 2019 Yukawa International workshop "Neutron stars and black holes with gravitational waves" at the Yukawa Institute for Theoretical Physics, Kyoto, Japan (**poster**: The size of stars stripped in massive binaries and its impact on gravitational wave events)
- 10 –14 September 2018 Triple Evolution and Dynamics Trendy-2 workshop, Lorentz Centre, Leiden, The Netherlands
- 9 – 13 July 2018 Transients in New Surveys: the Undiscovered Country workshop, Lorentz Centre, Leiden, The Netherlands
- 28 May – 1st June 2018 Shocking Supernovae, Stockholm, Sweden (**poster**: Self-consistent full evolutionary binary models of stripped-envelope supernova progenitors)
- 14 – 16 May 2018 Netherlands Astronomy Conference, Groningen, The Netherlands
- 3 – 6 April 2018 European Week of Astronomy and Space Science, Liverpool, England
- 12 – 13 March 2018 BlackGEM workshop in Nijmegen, The Netherlands
- 10 – 12 December 2017 11th Bonn workshop on neutron stars, Bonn, Germany
- 2 – 7 July 2017 Impact of binaries on stellar evolution 2017, ESO Garching, Germany (**poster**: Are long-term periodicities and giant outbursts in BeXRBs driven by Kozai-Lidov oscillations?)
- 5 – 7 December 2016 7 years of MAXI conference at RIKEN, Saitama, Japan (**poster**: Long-term periodicities in the Be X-ray binary EXO 2030+375?)
- 5 – 9 October 2015 INTEGRAL workshop: The New High Energy Sky after a Decade of Discoveries, Rome, Italy

Teaching and advising experience

- October 2019 – September 2020 Teaching assistant for stargazing nights, University of Amsterdam, NL
- October – December 2019 Teaching assistant for the MSc lecture Structure and Evolution of stars, University of Amsterdam, NL, Lecturer: Prof. Henny Lamers

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- 2019 Co-advisor of Carla Alejandra Calle García, summer student participating in the ASPIRE program
- February – March 2019 Teaching assistant for the MSc lecture Structure and Evolution of stars, University of Amsterdam, NL; Lecturer: Prof. Selma de Mink
- 2018 Co-advisor of Thomas Dodds, Bachelor student
- 2018 Teaching assistant for the Stellar astrophysics with MESA summer-school in Beijing, China
- 2018 Teaching assistant for the MSc lecture Structure and Evolution of stars, University of Amsterdam, NL; Lecturer: Prof. Anna Watts
- 2014 Guest lecturer in the astronomy and astrophysics lecture, Leibniz Kolleg, Tübingen, Germany

Computing skills

Web-Development	HTML, CSS, JavaScript, PHP
Software-Development	PYTHON, C, C++, SCHEME (Dr. Racket), QML
Databases	MYSQL
Text editing	L ^A T _E X, LibreOffice, Microsoft Word
Graphics	Inkscape, Blender 3D
Operation systems	Linux (Ubuntu, OpenSUSE), Windows, Mac OS

Languages

French	Native speaker
German	Native speaker
English	Fluent, Duolingo Test Center, 2015
Spanish	Good command
Japanese	Basic communication skills
Dutch	Basic communication skills

Leadership skills

- 2018–present Main organizer of the monthly massive star group meetings, Anton Pannekoek Insitute, Amsterdam, The Netherlands
- 2018–present Founder and main organizer of the weekly journal meetings of the BinCosmos group, Anton Pannekoek Insitute, Amsterdam, The Netherlands
- 2018–2019 Chair of the PhD/Postdoc council at the Anton Pannekoek Insitute, Amsterdam, The Netherlands
- 2012-2017 Youth leader in summer camps for children and youth of challenged socio-economical background, France and Germany

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Miscellaneous

- 2019 – present Referee for Monthly notices of the Royal Astronomical Society and Astronomy and Astrophysics
- 2017–present Volunteer for outreach in astronomy at the University of Amsterdam during stargazing events
- 2014–2017 Volunteer for outreach in astronomy at the IAAT, university of Tübingen, Germany – co-organiser of outreach and stargazing events, such as school visits and "Kinder-Uni".
- 2013 Driver's license
- 2012 Brevet d'aptitude aux fonctions d'animateur (BAFA) – French youth leader diploma

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Publications of Eva Laplace

Refereed publications

- 2018 Gaia and HST astrometry of the very massive $150 M_{\odot}$ candidate runaway star VFTS682
M. Renzo; S. E. de Mink; D. J. Lennon; I. Platais; R. P. van der Marel; **E. Laplace**; J. M. Bestenlehner; C. J. Evans; V. Hénault-Brunet; S. Justham; A. de Koter; N. Langer; F. Najarro; F. R. N. Schneider; J. S. Vink; 2018, accepted for publication in MNRAS letters; arXiv:1810.05650
- 2017 Possible regular phenomena in EXO 2030+375
E. Laplace; T. Mihara; Y. Moritani; M. Nakajima; T. Takagi; K. Makishima; A. Santangelo; 2017, *Astronomy&Astrophysics*, 597, A124; doi:10.1051/0004-6361/201629373
- 2015 On the dependence of the X-ray continuum variations with luminosity in accreting X-ray pulsars
K. A. Postnov; M. I. Gornostaev; D. Klochkov; **E. Laplace**; V. V. Lukin; N. I. Shakura; *Monthly Notices of the Royal Astronomical Society* 2015 452 (2): 1601-1611; doi: 10.1093/mnras/stv1393

In preparation

- 2019 The expansion of stars stripped in binaries and its consequences for gravitational wave events
E. Laplace, Y. Götberg, S. E. de Mink, S. Justham, and R. Farmer
– To be submitted in < 1 months

References

Prof. Selma de Mink

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