

## Personal details

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- ♦ Languages: German (native), English (fluent), Spanish (fluent), Dutch (basics)

## Academic background

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- ♦ 2021-current ESO fellow, European Southern Observatory, Garching, Germany
- ♦ 2017-2021 PhD student, Institute of Astronomy, KU Leuven, Belgium  
Thesis title: “*Observational imprints of binary evolution on B- and Be-star populations*”
- ♦ 2015-2017 Student job, Max-Planck Institute for Extraterrestrial Physics, Munich, Germany
- ♦ 2015-2017 M.Sc. Nuclear, Particle & Astrophysics, Technical University of Munich  
Thesis title: “*Interaction between massive stars and the interstellar medium*”
- ♦ 2011-2015 B.Sc. Physics, Technical University of Munich, Germany  
including two semesters ERASMUS at the Universidad Complutense de Madrid, Spain

## Successful observing proposals

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- ♦ 2021 30 hours at VLT/MUSE (PI) + 64 hours at other VLT instruments (Co-I)  
183 hours at Mercator/HERMES (PI)
- ♦ 2020 52 hours at VLT/GRAVITY (Co-I) + 2 hours VLT/MUSE (Co-I)  
195 hours at Mercator/HERMES + 125 hours (Co-I)
- ♦ 2019 3 hours at VLT/UVES (PI)  
219 hours at Mercator/HERMES + 243 hours (Co-I)
- ♦ 2018 3 hours at VLT/MUSE and 5 hours at VLT/UVES (PI)  
127 hours at Mercator/HERMES (Co-I)
- ♦ 2017 76 hours at Mercator/HERMES (Co-I)
- ♦ 2016 4 hours VLT/MUSE  
2 hours APEX/LABOCA (PI)
- ♦ 2015 40 hours at MPG/ESO-2.2m telescope/FEROS (PI)  
2 hours at VLT/MUSE (Co-I)

## Observing experience

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- ♦ 2020 KU Leuven Mercator telescope, 10 nights (remotely due to Covid-19)
- ♦ 2019 KU Leuven Mercator telescope, 20 nights
- ♦ 2018 KU Leuven Mercator telescope, 10 nights
- ♦ 2016 MPG/ESO-2.2m telescope, 12 nights
- ♦ 2015 MPG/ESO-2.2m telescope, 9 nights

## Conferences and workshops

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- ◆ Oct 2021      sdOB workshop (Max-Planck Institute for Astrophysics, Garching, Germany)  
Talk: *"The possible binary origin of classical Be stars and their connection to subdwarfs"*
- ◆ Jul 2021      European Week of Astronomy 2021 (virtual)  
Invited talk: *"On the origin of classical Be stars and the nature of exotic Be binary systems"*
- ◆ Jul 2020      MOBSTER-1 Conference (virtual)  
Contributed talk: *"On the binary origin of Be stars and the nature of exotic Be binary systems"*
- ◆ Jun 2020      European Week of Astronomy 2020 (virtual)  
Contributed talk: *"Hunting for post-interaction stars: A MUSE adaptive optics view of the SMC cluster NGC 330"*
- ◆ Jun 2019      European Week of Astronomy 2019 (Lyon, France)  
Contributed talk: *"Hunting for binary interaction products in the SMC cluster NGC 330 with MUSE"*
- ◆ May 2019      IAUS351: Star Clusters from the Milky Way to the Early Universe (Bologna, Italy)  
Poster: *"A MUSE view of the massive star population in the SMC cluster NGC 330"*
- ◆ Nov 2018      Massive stars and supernovae (Bariloche, Argentina)  
Contributed Talk: *"A MUSE adaptive optics view of the SMC cluster NGC 330"*
- ◆ Apr 2018      11<sup>th</sup> annual meeting of the VFTS collaboration (La Laguna, Spain)  
Talk: *"IR nebulae around massive stars as indicators for binary interactions"*
- ◆ Jul 2017      The impact of binaries on stellar evolution (Munich, Germany)  
Poster: *"Interactions between massive stars and the interstellar medium"*

## Seminars

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- ◆ Nov 2021      SESTAS Meeting (Max-Planck Institute for Astrophysics, Garching, Germany)  
Talk: *"Dissecting the core of the SMC cluster NGC 330 with MUSE"*
- ◆ Jul 2021      IAU Working Group on Active B Stars Talk series (virtual)  
Talk: *"On the possible binary origin of classical Be stars"*
- ◆ Jul 2021      Sheffield Astronomy Seminar (University of Sheffield, UK, virtual)  
Talk: *"On the binary origin of classical Be stars"*
- ◆ May 2021      SeBa and binary stellar evolution meeting (virtual)  
Talk: *"On the binary origin of Be stars and the nature of exotic Be binary systems"*
- ◆ Jun 2021      Journal Club (Liverpool John Moores University, UK, virtual)  
Talk: *"The young massive SMC cluster NGC 330 seen by MUSE"*
- ◆ Feb 2021      Massive Star meeting (Anton-Pannekoek Institute, The Netherlands, virtual)  
Talk: *"A MUSE adaptive optics view of NGC 330: Hunting for post-interaction binaries"*
- ◆ Jan 2021      BigBoom meeting (University of Arizona, US, virtual)  
Talk: *"On the binary origin of Be stars and the nature of exotic Be binary systems"*
- ◆ Jul 2020      BinCosmos meeting (Harvard University, US, virtual)  
Talk: *"On the binary origin of Be stars and the nature of exotic Be binary systems"*
- ◆ Jul 2020      Potsdam Zoominar (Potsdam University, Germany, virtual)  
Talk: *"A MUSE adaptive optics view of NGC 330: Hunting for post-interaction stars"*
- ◆ Jun 2020      Compact Objects Meeting (Flatiron Institute New York, US, virtual)  
Talk: *"Is HR 6819 a triple system containing a black hole? An alternative explanation"*
- ◆ Apr 2019      Institute of Astronomy Seminar Series (KU Leuven, Belgium)  
Talk: *"The core of NGC 330 seen with MUSE"*

## Teaching and supervision

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- ♦ Fall 2020 supervision of a one-year Master thesis at KU Leuven with Dr. D.M. Bowman
- ♦ Fall 2019 supervision of a ten-week research project for Master students at KU Leuven with Dr. T. Shenar
- ♦ Spring 2019 teaching assistant for the course “High Energy Astrophysics” at KU Leuven
- ♦ Fall 2018 supervision of a ten-week research project for Bachelor students at KU Leuven with Dr. M. Abdul-Masih
- ♦ Spring 2018 Supervision of a one-week project with a high-school student at KU Leuven

## Organizational experience and community service

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- ♦ Fall 2021 assisted organizing the ESO Summer Research Programme 2022
- ♦ 2021-current scientific referee for ApJ
- ♦ 2019-2021 organizer of a weekly PhD meeting at the Institute of Astronomy, KU Leuven

## Public outreach

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- ♦ 2021 “Science Figured Out” – [2min video pitch](#)  
Video contribution to the exhibition “[To the Edge of Time](#)”, Leuven, Belgium  
Participation in a movie for the Belgian “heritage day”  
Virtual talk to German high-school class (12<sup>th</sup> grade)  
Several virtual “[Skype a Scientist](#)” sessions around the world
- ♦ 2020 Several virtual “[Skype a Scientist](#)” sessions around the world  
“Couch of Science” virtual outreach talk on [youtube](#)
- ♦ 2019 Talk in a bar in the context of the “[Pint of Science](#)” festival  
2-h lecture about Stellar Clusters for the Astronomy Summer School Leuven  
STEM University at KU Leuven
- ♦ 2018 Day of Sciences at KU Leuven  
High-school visits at the Institute of Astronomy, KU Leuven  
KU Leuven Kids University