JORDAN B. S. VAN BEECK



Online Presence Personal Webpage R⁶ ResearchGate page LinkedIn page Google Scholar page Github page (JVB11) ArXiv records ADS library R Researcher ID 0000-0002-5082-3887 Zenodo records

SCIENTIFIC EDUCATION

09/2019 - 09/2023 | ASTRONOMY & ASTROPHYSICS, Ph.D.

KU Leuven, Belgium

Thesis title: Asteroseismology of Kepler B stars: internal magnetism and nonlinear

mode coupling (direct download link)

Promoters: Prof. Dr. C. Aerts, Prof. Dr. T. Van Hoolst, Dr. Prof. D. M. Bowman

09/2017 - 07/2019 | ASTRONOMY & ASTROPHYSICS, M.Sc.

Magna Cum Laude KU Leuven, Belgium

Thesis title: The influence of an interior magnetic field on gravity-mode oscillations of

intermediate-mass stars (direct download link)

Promoters: Prof. Dr. C. Aerts, Dr. T. Van Reeth, Prof. Dr. D. M. Bowman

09/2015 - 09/2017 | CHEMIE / CHEMISTRY, M.Sc.

Magna Cum Laude

University of Antwerp (Universiteit Antwerpen), Belgium

Thesis title: Characterization of radioactive particles

Promoters: Prof. Dr. K. Janssens, Prof. Dr. B. Salbu, Prof. Dr. O.-C. Lind, M.Sc. G. Nuyts

09/2012 - 09/2015 | CHEMIE / CHEMISTRY, B.Sc.

Magna Cum Laude

University of Antwerp (Universiteit Antwerpen), Belgium

Thesis title: Atomic scale reactive MD studies of DNA oxidation for plasma oncology: the role of H_2O_2 and HO_2

Promoters: Prof. Dr. A. Bogaerts, Prof. Dr. E. Neyts, Dr. C. Verlackt

EMPLOYMENT HISTORY

09/2023 - 12/2023

Research Associate, Asteroseismology

Institute of Astronomy, KU Leuven, Celestijnenlaan 200D, B-3001 Leuven, Belgium Project: non-linear asteroseismic modeling of slowly pulsating B stars

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AWARDED GRANTS AND FELLOWSHIPS

2021 - 2022	FWO (Research Foundation Flanders) long research stay grant (€12 738) for
	a stay as a VSR at TAPIR, Caltech, CA, USA with Prof. Dr. J. Fuller.
2019 - 2023	4-year PhD Fellowship, Department of Physics & Astronomy, KU Leuven

SEMINARS AND CONFERENCE PRESENTATIONS (ABRIDGED)

March 2023	GOOD VIBRATIONS SEMINAR (https://youtu.be/dWaEkri_s2I?feature=shared) The Good Vibrations seminar series, S3E8.	
February 2023	AD-VALVAS SEMINAR (https://youtu.be/nTWZoLCMa_g?feature=shared) Ad-valvas seminar of the Institute of Astronomy, KU Leuven, Belgium.	
July 2022	POSTER PRESENTATION (additional info: doi:10.5281/zenodo.6814504) TASC6 / KASC13 workshop/conference at KU Leuven, Belgium.	
November 2021	CONTRIBUTED TALK (doi:10.26081/K6VH15) Transfer in Stellar Interiors conference (part of the Probes of Transport in Stars program), KITP, UC Santa Barbara, CA, USA.	
July 2020	CONTRIBUTED TALK (doi:10.5281/zenodo.5525346) MOBSTER-1 Virtual conference 2020: Stellar variability as a probe of magnetic fields in massive stars (online, hosted by University of Delaware, DE, USA)	

AWARDS AND HONORS

July 2019	Paul Smeyers Prize, KU Leuven
	Awarded to the annual best master's thesis in Astronomy & Astrophysics at the June exa

TEACHING EXPERIENCE

session.

University Courses

2022 - 2023	Teaching Assistant, Department of Physics & Astronomy, KU Leuven
	'Natuurkunde met elementen van wiskunde' I (K01B4A; in Dutch), first year B.Sc. pharmaceutical sciences
2019 - 2021	Teaching Assistant, Department of Physics & Astronomy, KU Leuven
	'Natuurkunde met elementen van wiskunde' I and II (K01B4A and K01B4B; in Dutch, English translation: 'Physics with elements of mathematics' I and II), first year B.Sc. pharmaceutical sciences

RESEARCH POSITIONS

11/2021 - 06/2022	Visiting Student Researcher (VSR) at TAPIR, Caltech, CA, USA	
	Mentor: Prof. Dr. J. Fuller	Funding: FWO long research stay grant
	Project Title: Nonlinear asteroseismology: a dynamic step forward.	
	Project Focus: using nonlinear asteroseismic the aid in explaining oscillation mode amplitude l	
11/2021 - 12/2021 Transport in Stellar Interiors Program Affili at KITP, UC Santa Barbara, CA, USA		n Affiliate (workshop, conference)
	Mentor: Prof. Dr. L. Bildsten	Funding: FWO long research stay grant

PROFESSIONAL ACTIVITIES

Conference Organization

July 2022 | Member of the LOC, TASC6 / KASC13 workshop/conference at Leuven, Belgium

Associations

2022	Fellow (Graduate Student) Royal Astronomical Society (RAS)
2020 - 2022	Graduate Student Member American Astronomical Society (AAS)
2020 - 2022	Graduate Student Member Royal Netherlands Astronomical Society (KNA)
2019 - 2023	Graduate Student Member International Research Network for Nuclear Astrophysics (IReNA)

LANGUAGES

Spoken Ar Programming Programming

Dutch (mother tongue)
English (fully proficient)
French (basic)







Proficient:











SCIENTIFIC SOFTWARE PROFICIENCY



SCIENTIFIC SOFTWARE CREATOR



