Jordan B. S. Van Beeck

Online Presence Personal Webpage · ResearchGate page · LinkedIn page
Google Scholar page · Github page (JVB11) · ArXiv records · ADS library
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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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Funded by the European Union

European Research Council

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 examination session.

Teaching Experience

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 theory to develop computational tools that aid in explaining oscillation mode amplitude limitation in slowly pulsating B stars.
11/2021 - 12/2021	Transport in Stellar Interiors Program Affiliate (workshop, conference) at KITP, UC Santa Barbara, CA, USA 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

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

Programming

Expert:

Proficient:

Scientific Software Proficiency

Scientific Software Creator