

Amadeusz Miszuda, PhD

Curriculum Vitae

Nicolaus Copernicus Astronomical Center (NCAC)
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Scientific Positions

May 2023 - Apr 2026 (ongoing)	Postdoctoral researcher (fixed term contract) <i>Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences, Warsaw, Poland</i> Host: prof. Gerald Handler
Jan 2021 - Mar 2023	Researcher & Teaching Assistant <i>University of Wrocław, Astronomical Institute, Poland</i>

Education

Oct 2017 – Mar 2023	University of Wrocław, Astronomical Institute, Poland Supervisor: prof. Jadwiga Daszyńska-Daszkiewicz <i>PhD in Stellar Astrophysics</i> Thesis title: <i>Evolution and pulsations of β Cephei and δ Scuti stars in eclipsing binary systems</i>
Oct 2015 – Sep 2017	University of Silesia, Poland Supervisor: dr. Aleksandra Piórkowska-Kurpas <i>MSc in Theoretical Physics</i>
Oct 2012 – Sep 2015	University of Wrocław, Poland Supervisor: dr. Joanna Molenda-Żakowicz <i>BA in Astronomy</i>

Teaching Experience

Basics of Astronomy (Undergrad)	Spring 2022
Stellar Structure and Evolution (Graduate)	Fall 2020
Stellar Pulsations (Graduate)	Fall 2019
Stellar Structure and Evolution (Undergrad)	Spring 2018 – 2022

Projects and research funding

Polish NCN grant OPUS 2018/29/B/ST9/02803 stipendist	Fall 2019 – Fall 2020
Polish NCN grant OPUS 2015/17/B/ST9/02082 stipendist	Fall 2018 – Spring 2019

Honors

Dean's Honours List <i>Recognition for the top 10% of PhD students</i>	Fall 2020 – Fall 2021
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Invited lectures, conference talks and seminars

2025	Institute of Astronomy, University of Wroclaw, Poland
2025	Vienna, Austria <i>TASC9/KASC16</i>
2025	Keele, United Kingdom <i>Binary Stars in the Space Era</i>
2024	Litomyšl, Czech Republic <i>Binary and Multiple Stars in the Era of Big Sky Surveys</i>
2024	University of Porto, Portugal <i>TASC8/KASC15</i>
2024	European Astronomical Society, Padova, Italy <i>EAS annual meeting 2024</i>
2024	Flatiron Institute, New York, USA <i>Stable Mass Transfer in Binaries: from onset to remnants</i> Invited talk with Simon J. Murphy on "Astroseismic Signatures of Mass Transfer and The Products of Mass Transfer"
2023	Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences (NCAC), Warsaw, Poland
2023	University of Hawaii, USA <i>TASC7/KASC14</i>
2022	University of Wisconsin-Madison, USA
2022	LESIA Paris Observatory, France <i>The Good Vibrations Seminars</i>
2022	KU Leuven, Belgium <i>TASC6/KASC13</i>
2021	University of Szczecin, Poland <i>XXXX Polish Astronomical Society Meeting</i>
2020	University of Surrey, Guildford, UK <i>Pulsations in Intermediate-mass, Massive and/or Multiple Stars</i>
2019	University of Warmia and Mazury, Olsztyn, Poland <i>XXXIX Polish Astronomical Society Meeting</i>

Schools and Workshops

2021	PHOEBE Workshop, Villanova, USA (Virtual workshop)
2021	MESA Summer School, Santa Barbara, USA (Virtual workshop)
2022	PHOEBE Workshop, Villanova, USA
2022	MESA Summer School, Santa Barbara, USA
2025	MESA Summer School, KU Leuven, Belgium - Teaching Assistant

Publications

ORCID [0000-0002-9382-2542](https://orcid.org/0000-0002-9382-2542)

Metrics 8 first-author publications, 2 as 2nd author, out of 12 total accepted

REFEREED FIRST-AUTHOR PUBLICATIONS

1. [Eclipsing binary systems with \$\beta\$ Cephei components. V1216 Sco](#)
Miszuda, A. et al. (2025), Submitted to A&A
2. [The evolutionary and asteroseismic imprints of mass accretion: The \$10 M_{\odot}\$ \$\beta\$ Cep case study](#)
Miszuda, A. et al. (2025), A&A 702, A203 cited: 3
3. [Off-centre convective zones in mass accreting stellar models](#)
Miszuda, A. (2025), A&A 701, L7 cited: 1
4. [Pulsational characteristics of mass accreting stars in close binary systems](#)
Miszuda, A. (2025), CoSka 55, 196
5. [Evolutionary and Seismic Modeling of the \$\delta\$ Sct Pulsator in a Binary System AB Cassiopeia](#)
Miszuda, A. et al. (2022), PPAS, 12, 169
6. [The eclipsing binary systems with \$\delta\$ Scuti component - II. AB Cas](#)
Miszuda, A. et al. (2022), MNRAS, 514, 622 cited: 16
7. [The eclipsing binary systems with \$\delta\$ Scuti component - I. KIC 10661783](#)
Miszuda, A. et al. (2021), MNRAS, 505, 3206 cited: 18
8. [Binary and seismic modelling of the Kepler system KIC 10661783 with the \$\delta\$ Scuti component](#)
Miszuda, A. et al. (2020), PPAS, 10, 371 cited: 1

REFEREED CO-AUTHORED PUBLICATIONS

1. [A comprehensive study of \$\delta\$ Scuti-type pulsators in eclipsing binaries: oscillating eclipsing Algols](#)
Pawar, T. B. et al. (2025), Accepted for publication in A&A cited: 1
2. [EL CMi: Confirmation of triaxial pulsation theory](#)
Handler, G. et al. (2025), A&A 702, 104 cited: 1
3. [Characterizing the variability of a sample of massive stars in eclipsing binaries](#)
Eze, C. I. et al. (2025), CoSka 55, 452
4. [Age Determination of Galactic B-type Stars in Double-lined Eclipsing Binaries](#)
Daszyńska-Daszkiewicz, J. & Miszuda, A. (2019), ApJ, 886, 35 cited: 9