

# KATARZYNA MAGDALENA DUTKOWSKA

## CURRICULUM VITAE

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### PERSONAL DETAILS

Email: dutkowska@nbi.ku.dk  
ORCID ID: 0000-0003-0980-6871  
Nationality: Polish

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### EDUCATION AND EMPLOYMENT

9-12/2022 Research Assistant, Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark  
12/2022 Ph.D. fellow, Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark  
Thesis: *Tracing star formation at high redshift using the Milky Way as a template*, supervisor: Lars Egstrøm Kristensen; Ph.D. expected at the beginning of 2023  
08/2019 M.Sc. (in Astronomy), Nicolaus Copernicus University, Toruń, Poland  
Thesis: *Cluster-in-a-box: understanding how low-mass stars form in high-mass clusters using 338.4 GHz methanol emission as an outflow tracer*, advisor: Agata Karska, co-advisor: Lars Egstrøm Kristensen; defended on August 12th, 2019  
07/2017 B.Sc. (in Astronomy, Physics and Computer Usage), Nicolaus Copernicus University, Toruń, Poland  
Thesis: *Searching for correlations between parameters of planetary nebulae and their central stars*, advisor: Krzysztof Gęsiński; defended on July 27th, 2017

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### AWARDS AND HONORS

2019 Scholarship of the Minister of Science and Higher Education for outstanding achievements, Ministry of Science and Higher Education of the Republic of Poland

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### SCIENCE PROJECTS AND PROPOSALS

03/2021 Proposal: Unravelling low-mass protostars in a dense high-mass cluster  
Scientific observations with Submillimeter Array in block 2021A; role: PI; cancelled due to COVID-19  
01/2018–09/2018 Project: The impact of physical and chemical conditions on the star formation process: identification and characterization of young stellar objects in the Outer Galaxy  
Advisor: Dr. Marta Sewilo  
06/2017–09/2018 Project: Impact of the UV radiation on early star formation stages  
Advisor: Dr. Agata Karska

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### TEACHING EXPERIENCE

2022 co-advisor of a B.Sc. project *Mass Distributions of Stars and Clusters in Galaxies*, University of Copenhagen  
2021/2022 TA during the B.Sc. course *Introduction to Computing for Physicists*, University of Copenhagen [hybrid]  
2020/2021 TA during the B.Sc. course *Experimental Physics*, University of Copenhagen [F2F]  
2019/2020 TA during the M.Sc. course *The Interstellar Medium and Formation of Stars*, University of Copenhagen [online]

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## TALKS

05/2022	Annual Danish Astronomy Meeting, Fredericia, Denmark; Talk: <i>Star formation through Cosmic history: from the perspective of a Milky Way inhabitant</i>
05/2022	StarPlan Science Day, Copenhagen, Denmark; Talk: <i>Star formation: a Galactic view</i>
06/2021	StarPlan Science Day, Copenhagen, Denmark; Talk: <i>What is in the box?</i>
10/2018	Astronomy Students' Associations Conference KSAKN, Wrocław, Poland; Talk: <i>Basics of astrochemistry</i>
09/2018	National Astronomy Students' Seminar OSSA, Kraków, Poland; Talk: <i>Infrared and maser emission associated with low mass protostars</i>
09/2018	48th Young European Radio Astronomers Conference YERAC, Dwingeloo, Netherlands; Talk: <i>Infrared and 22 GHz water emission associated with a Sun-like protostar</i>
04/2018	Astronomy Students' Associations Conference KSAKN, Kraków, Poland; Talk: <i>Hawaiian observations</i>

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## WORKSHOPS AND INTERNSHIPS

07/2022	Ph.D. research exchange visit, Département de Physique de l'Ecole Normale supérieure, Paris, France
06/2022	<i>The Interstellar Shocks School</i> , Les Houches, France
06/2021	<i>Virtual OPTICON Archival School using ESO and ALMA data</i> , online school
03/2021	<i>The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert</i> , online bootcamp
03/2021	<i>2021 SMA Interferometry School</i> , online school
12/2020	<i>Scientific Writing in Astro</i> , online workshop
03/2018	Student exchange visit, Munich - Garching, Germany
07/2017	Summer student internship in Astronomical Observatory of the University of Wrocław, Białków, Poland
06/2017	<i>Python in science</i> , workshop, Toruń, Poland

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## PUBLIC OUTREACH AND PROMOTION

10/2022	Volunteer during the Niels Bohr Legacy Symposium in Astrochemistry, Copenhagen, Denmark
08/2018	Volunteer during the XXXth General Assembly of the International Astronomical Union, Vienna, Austria
2018	Popular science articles for the Polish daily newspaper <i>Gazeta Wyborcza</i>
2014-2018	Volunteer during popular science public events

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## PRACTICAL SKILLS

Mother tongue:	Polish
Other languages:	English (fluent in reading, speaking, writing) French, Danish (can read with dictionary)
Astronomical data processing environments (CASA, HIPE, CLASS, basic IRAF and AIPS)	
Programming languages: Python, SQL, CSS, basic C and C++	