


Joanna Sakowska

Astrophysics PhD candidate on the **Diversity in Physics** and **Bell Burnell Graduate Fund** scholarships.
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Research Interests

Resolved stellar populations, the Magellanic Clouds, low-surface brightness studies, ultra-faint dwarf galaxies.

Education

PhD in Astrophysics, University of Surrey, Guildford, UK **Sep 2020 – Present**

Research: Structure and evolution of the Small Magellanic Cloud galaxy.

Supervisors: Noelia E. D. Noël, Tomás Ruiz-Lara, Denis Erkal

Pre-doctoral researcher, Institute of Astrophysics of the Canary Islands (IAC), ES **Jul 2020 – Sep 2020**

Research: “Missing Dwarf Galaxies” beyond the Local Group.

Supervisor: Ignacio Trujillo

Master of Physics (MPhys), University of Surrey, Guildford, UK **Sep 2016 – Jul 2020**

Thesis carried out at the IAC, ES (Mar 2019 - Jan 2020)

Research: High-resolution spectroscopy of planetary nebulae.

Supervisors: Jorge García Rojas, D. Anibal García-Hernández

Scholarships and Awards

- **Bell Burnell Graduate Scholarship.** *Awarded by the Institute of Physics, UK.*
One of the first four prestigious diversity scholarships (2020).
- **Diversity in Physics Scholarship.** First departmental diversity fellowship (2020).
- **Santander PhD Travel Awards.** *4 month stay at Universidad de Granada, ES.*
One of the four awards to fund a research stay (2022/23).
- **Annual international IAC pre-doctoral summer grant.** One of the six grants (2020).

Collaborations, Publications

- DELVE survey. *Recognition for significant contributions to the Magellanic Clouds working group. 9 observing nights with the Dark Energy Camera..*
- SMASH survey.
- LSST:UK Junior Associate

9 published papers; 70 citations; H-index = 4. For a full list please check my Orcid profile.

Talks, Conferences & Schools

- **Contributed Talk**, "Satellite galaxies and tidal streams in the framework of cosmological models" symposium, EAS 2022, Valencia, Spain, 06/2022
- **Contributed Talk**, Doctoral College Conference, University of Surrey, UK, 06/2022
- **Contributed Talk**, "Exploring the Magellanic Clouds: (Symposium at National Astronomical Meeting 2021), virtual, University of Bath, UK, 07/2021
- **Flash Poster Talk**, Conference for Astronomy and Physics Students (CAPS '21, Institute of Physics), virtual, University of Birmingham, UK, 07/2021
- **Flash Poster Talk**, "The Renaissance of the Low Surface Brightness Universe" (Symposium, EAS 2021, virtual, Leiden Observatory, Netherlands, 06/2021
- **Participant**, Linking the Galactic and Extragalactic, virtual, University of Sydney, Australia (2020)
- **Participant**, Gaia Symposium: DR2 and Beyond, virtual, Indian Institute of Astrophysics (2020)

Teaching & Supervision

- **Teaching assistant**: The Universe; Introduction to Astronomy modules. University of Surrey (2020 – Present)
- **Teaching**: Robotics & Astronomy instructor, Camp Shoshanim, Lakewood, PA, USA (2018)
- **Project supervision**: 3 work experience students (Year 10, 2022)

Public Outreach

- **Summer schools**: University of Surrey Physics summer school (Research project design, supervision, subject talks; 2017, 2020, 2021, 2022).
- **Mentoring**: Mentoring young people to access higher education (e.g. *Surrey Physics Academy*, *In2Surrey* or *Aim4University*; 2016 – Present).
Mentor to first year Physics PhD student (2022 – Present); final year Physics undergraduate (2021).
- **Outreach talks**: ad-hoc subject taster days, school visits (2021, 2022).
- **Student volunteering**: Physics student representative (2016-2019); Surrey PhySoc committee (2017/18).
- **Public events**: Monthly University public stargazing (2017 – present); Dark Matter Day (2018); Guildford World Space Week (2021).
- **Responsibilities**: Surrey telescope maintenance, tours (2022).

Languages

Polish, English, native; **Spanish**, intermediate (B2 level); **Italian**, elementary (A1/A2 level).

References available upon request