

# hannahdalgleish

hannah@iayc.org ✉ hannahsdalgleish.com 📧 astro\_hsd 🐦 hsdalgleish in

Skilled researcher in astrophysics, and topics at the intersection of astronomy and society such as science communication and dark sky tourism. Confident in all forms of media and able to explain complex astrophysical phenomenon to a diverse range of audiences. Passionate advocate for equity, diversity & inclusion in STEM; ample experience in securing funding and coordinating events (locally and globally); enthusiastic to contribute new ideas and implement positive change.

## education & employment

Oct 2020–Now	<b>Postdoctoral Researcher</b> Astronomy for Development	Physics, University of Namibia
Apr–Sept 2020	<b>Postdoctoral Researcher</b> Astronomy for Development Working with Prof. Garret Cotter in collaboration with the University of Namibia. Implementing astrotourism and astronomy education as a means for socioeconomic development in Namibia.	Physics, University of Oxford
2016–2020	<b>PhD Astrophysics</b> <i>Star clusters across cosmic time: internal kinematics from stellar nurseries to ancient globulars</i> Supervisors: Prof. Steve Longmore, Prof. Nate Bastian	ARI, Liverpool John Moores University
2014–2016	<b>Master Astrophysics</b> <i>Quantitative spectroscopy of blue supergiants in NGC 6822</i> Supervisor: Dr. Miguel A. Urbaneja	AstroMundus: Universities of Innsbruck, Padua, and Belgrade
2010–2014	<b>Bachelor Astrophysics (2:1)</b> <i>Magnetic fields and spins of young Sun-like stars</i> Supervisor: Dr. Scott G. Gregory	University of St Andrews
2012–2013	Canadian Robert T Jones Jr Scholar 3 <sup>rd</sup> year abroad	University of Western Ontario

## experience

2020–2023	<b>RAS Councillor</b> Elected by RAS Fellows to serve on the RAS Council, by more than 400 votes.	Royal Astronomical Society
2017–2019	<b>Teaching Assistant</b> Lab demonstrator for ~20 third-year undergraduate students. Supervised observations made during the Tenerife field trip as well as data analysis.	University of Liverpool
Mar-Jun 2017	<b>Science Communication and Journalism Intern</b> Communicating to journalists and the general public: writing press releases, videos scripts, wikipedia texts, updating webpages, and more.	ESO, Garching, Germany
2018–2019	<b>TransPeer</b> One of three LJMU PhD students selected to participate in this Erasmus+ funded <i>Transnational Project to Enhance Researcher Employability</i> . The programme focused on <ul style="list-style-type: none"><li>• private and public sector co-operation;</li><li>• personal effectiveness and professional impact;</li><li>• team work, communication, mentorship and career management;</li><li>• innovation, value-creation and conflict management.</li></ul>	Norway, UK, Portugal, and Sweden

## awards

Nov 2019	<b>Three Minute Wonder Competition</b> Winner of Merseyside Heat; the final will take place at the Royal Institution in 2021	Institute of Physics
Mar 2019	<b>Three Minute Thesis Competition</b> Winner of Faculty Heat	Vitae

Mar 2019	<b>I'm a Scientist, Get me out of here</b> 2 <sup>nd</sup> place in this online STEM engagement activity, voted by school students across the UK.	Dubnium Zone, STFC
Nov 2018	<b>Early Career Physics Communicator Award</b> Finalist for communicating astrophysics to diverse audiences and engaging researchers in the importance and theory of science communication.	Institute of Physics

## communication

2018–Now	<b>Oral Presentations</b> (Astronomy and society) <i>Dark sky tourism and sustainable development in Namibia</i> <i>Astronomy camps as a long-term, successful engagement practice</i> <i>Sustainable development in Namibia: astro-tourism and -education for schools</i> <i>The mysterious case of the star cluster</i> <ul style="list-style-type: none"> <li>Merseyside astronomy day</li> <li>Palestinian advanced physics school</li> </ul> <i>Astrophysics: what it is and why it isn't scary</i> <i>50 years of the International Astronomical Youth Camp</i> <ul style="list-style-type: none"> <li>Communicating astronomy with the public conference</li> <li>European week of astronomy and space science</li> </ul> <i>Astronomy outreach in Palestine</i> <ul style="list-style-type: none"> <li>International meeting for science in Palestine</li> </ul> <i>We are all made of stars: from the Big Bang to the heat death of the Universe</i> <ul style="list-style-type: none"> <li>University of Liverpool Astronomy Society</li> <li>University of Warwick Astronomy Society</li> <li>Global human: poetics of science seminar</li> </ul>	Conferences and outreach events SAAO 2020; ASP 2020 EAS 2020 EAS 2020 Liverpool, 2019 Palestine, 2019 Ignite Liverpool, 2018 Fukuoka, 2018 Liverpool, 2018 Cambridge, 2018 Liverpool, 2017 Warwick, 2017 Scottish Borders, 2017
2017–Now	<b>Oral Presentations</b> (Astrophysics) <i>The dynamical mass-to-light ratio of local star clusters</i> <ul style="list-style-type: none"> <li>European week of astronomy and space science</li> <li>Tracing star and cluster formation across cosmic times</li> <li>Current and future observing facilities</li> <li>International conference of physics students</li> </ul> <i>Ionised gas kinematics in bipolar H II regions</i> <ul style="list-style-type: none"> <li>European week of astronomy and space science</li> <li>Cardiff Galactic star formation workshop</li> </ul>	International and national conferences Lyon & Liverpool, 2019/18 Sexten, 2018 Belgrade, 2018 Helsinki, 2018 Liverpool, 2018 Cardiff, 2017
2018–Now	<b>Workshops</b> I lead workshops on the science of science communication <ul style="list-style-type: none"> <li>International Astronomical Youth Camp</li> <li>Natural sciences society</li> <li>International conference for physics students</li> </ul>	Online, 2020 York, 2019 Helsinki, 2018

## outreach and service

2020–	<b>Co-Chair of the Sustainability WG</b> Through leading a group of nine, we aim to understand the current sustainability efforts of the European astronomy community and to encourage increased climate action.	European Astronomical Society
2014–Now	<b>Former President</b> (2016–2017) IWA organises the International Astronomical Youth Camp (IAYC), a 3-week research camp hosting ~sixty-five 16-24 year olds in a different country each year. <ul style="list-style-type: none"> <li>Designed, carried out, and analysed the IAYC Survey (300+ respondents)</li> <li>Creating and maintaining the IAYC Astroletter (330+ subscribers)</li> <li>Fundraised €10,000+ for participants from disadvantaged backgrounds</li> <li>General coordinator for the first IAYC ever held in the UK</li> <li>Secured a £2,000 grant from the Royal Astronomical Society</li> <li>Supervision of ~30 participants on projects relating to <ul style="list-style-type: none"> <li>the intersection of astronomy and society</li> <li>construction of a radio telescope</li> <li>historical and cultural astronomy</li> </ul> </li> </ul>	International Workshop for Astronomy 2017–2020 2017–Now 2015–2018 UK, 2016 2016 Online, 2020 Germany, 2015 Austria, 2014

2018–2019	<b>Palestinian Physics School Organiser</b>	Scientists for Palestine
	Co-organised the 3 <sup>rd</sup> Palestinian Advanced Physics School (Birzeit University, July 2019). In addition to giving a talk on globular clusters, I led a workshop on careers and opportunities in astrophysics. Fifty students took part, including fourteen Gazan students who participated remotely.	
2018–2019	<b>Editor-in-Chief</b>	Journal of the International Association for Physics Students
	Produced, edited, and designed jIAPS (using inDesign). I managed the article competition and commissioned new articles focused on physics outreach, diversity and equality, and the philosophy of physics. I worked with the authors to improve and develop their writing, and implemented a new creative competition. jIAPS 2019: <a href="https://bit.ly/2ZHt9EA">https://bit.ly/2ZHt9EA</a>	
2017–2020	<b>Committee Membership</b>	Astrophysics Research Institute, LJMU, UK
	In these roles I focused on diversity and how to improve reach to minority communities.	
	<ul style="list-style-type: none"> <li>• Public Engagement and Outreach Committee</li> <li>• PhD Task Force Committee</li> <li>• EWASS Local Organising Committee</li> </ul>	Liverpool, 2017–2018
Nov 2019	<b>Gender Gap in Science Conference</b>	Trieste, Italy
	Selected as a representative for the UK, astronomy, and early career researchers.	
Summer 2019	<b>Media Production</b>	Liverpool World Museum, UK
	I was professionally filmed for the Astronomy Photographer of the Year exhibit, explaining the science behind the winning Corona Australis Dust Complex image.	
Spring 2019	<b>Interviewer</b>	The British Federation of University Women
	I interviewed ethnic minority staff for research on women in academia on behalf of the BFWG. The data has been included in this publication: <a href="https://bit.ly/37wcmXX">https://bit.ly/37wcmXX</a>	
Mar 2019	<b>Voice of the Future</b>	Houses of Parliament, UK
	Represented the Royal Astronomical Society and Institute of Physics, asking Parliamentarians important questions concerning young people in science today. <a href="https://bit.ly/2UKKcVf">https://bit.ly/2UKKcVf</a> .	

## publications

### journal articles

Under one sky: astronomy as a catalyst for UK-Africa cultural relations under the Newton Fund

**H. Dalglish**

British Council essay collection (Feb. 2021). DOI: *InPrep*

Astronomy for development

**H. Dalglish**

Astronomy and Geophysics 61.6 (Dec. 2020). DOI: [10.1093/astrogeo/ataa084](https://doi.org/10.1093/astrogeo/ataa084)

Assessing the influence of one astronomy camp over 50 years

**H. Dalglish** and J. Veitch-Michaelis

Nature Astronomy 3 (Dec. 2019). DOI: [10.1038/s41550-019-0965-y](https://doi.org/10.1038/s41550-019-0965-y)

The WAGGS project – III. Discrepant mass-to-light ratios of Galactic globular clusters at high metallicity

**H. Dalglish**, S. Kamann, C. Usher, H. Baumgardt, N. Bastian, J. Veitch-Michaelis, A. Bellini, S. Martocchia, G. S. Da Costa, et al.

492.3 (Mar. 2020). DOI: [10.1093/mnras/staa091](https://doi.org/10.1093/mnras/staa091)

Ionized gas kinematics in bipolar H II regions

**H. Dalglish**, S. N. Longmore, T. Peters, J. D. Henshaw, J. Veitch-Michaelis, and J. S. Urquhart

478.3 (Aug. 2018). MNRAS, DOI: [10.1093/mnras/sty1109](https://doi.org/10.1093/mnras/sty1109)

The WAGGS project – II. The reliability of the calcium triplet as a metallicity indicator in integrated stellar light

C. Usher, T. Beckwith, S. Bellstedt, A. Alabi, L. Chevalier, N. Pastorello, P. Cerulo, **H. Dalglish**, A. Fraser-McKelvie, et al.

482.1 (Jan. 2019). DOI: [10.1093/mnras/sty2611](https://doi.org/10.1093/mnras/sty2611)

No evidence for intermediate-mass black holes in the globular clusters  $\omega$  Cen and NGC 6624

H. Baumgardt, C. He, S. M. Sweet, M. Drinkwater, A. Sollima, J. Hurley, C. Usher, S. Kamann, **H. Dalglish**, et al.

488.4 (Oct. 2019). DOI: [10.1093/mnras/stz2060](https://doi.org/10.1093/mnras/stz2060)