hannahdalgleish

hannah@iayc.org ≥ astrophysicsgirl.com astro_hsd hsdalgleish in

Skilled science communicator with 10 years of experience. Confident in all forms of media and able to explain complex astrophysical phenomenon to a diverse range of audiences. Passionate advocate for diversity in STEM and working to help bridge the gap between science and the public. Ample experience in securing funding and coordinating events, locally and globally. Enthusiastic to contribute new ideas and implement positive change.

education

2016–Now	PhD Astrophysics Star clusters across cosmic time: internal ki Supervisors: Prof. Steve Longmore, Prof. Nate Bastia	ARI, Liverpool John Moores University nematics from stellar nurseries to ancient globulars an
2014–2016	Master Astrophysics Quantitative spectroscopy of blue supergia Supervisor: Dr. Miguel A. Urbaneja	AstroMundus: University of Innsbruck, Padua, and Belgrade ants in NGC 6822
2010–2014	Bachelor Astrophysics (2:1) Magnetic fields and spins of young Sun-lik Supervisor: Dr. Scott G. Gregory	University of St Andrews
2012–2013	Canadian Robert T Jones Jr Scholar 3 rd year abroad	University of Western Ontario

experience

2017–2019	Teaching Assistant	University of Liverpoo
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Lab demonstrator for ~20 third-year undergraduate students. Supervised observations made during the Tenerife field trip as well as data analysis.

Mar-Jun 2017 Science Communication and Journalism Intern ESO, Garching, Germany

Communicating to journalists and the general public: writing press releases, videos scripts, wikipedia texts, updating webpages, and more.

2018-2019 Norway, UK, Portugal, and Sweden

> One of three LJMU PhD students selected to participate in this Erasmus+ funded Transnational Project to Enhance Researcher Employability. The programme focused on

- private and public sector co-operation;
- personal effectiveness and professional impact;
- team work, communication, mentorship and career management;
- innovation, value-creation and conflict management.

awards

Nov 2019	Three Minute Wonder Competition Winner of Merseyside Heat; the final will take place a	Institute of Physics at the Royal Institution
Mar 2019	Three Minute Thesis Competition Winner of Faculty Heat	Vitae
Mar 2019	I'm a Scientist, Get me out of here 2 nd place in this online STEM engagement activity, vo	Dubnium Zone, STFC oted by school students across the UK.
Nov 2018	Early Career Physics Communicator Award Finalist for communicating astrophysics to diverse au importance and theory of science communication.	Institute of Physics diences and engaging researchers in the
Jun 2014	Best Undergraduate Student Lecture Voted by the delegates for a talk on my Bachelor's re	Conference for Astronomy and Physics Students esearch

Summer 2013 Rectors' and Physics Summer Vacation Scholar

University of St Andrews

Awarded £1000 for astronomy outreach in Hawai'i:

- Mauna Kea Visitor Station: teaching practical and cultural astronomy to the public
- Caltech Sub-millimetre Observatory: observational support
- 'Imiloa Planetarium: volunteering at events including Nano Visitors Day
- Panoptes: using Arduino to develop a weather station prototype for this exoplanet research project

2010–2014 Dr Lawrence M Wodehouse Scholar

University of St Andrews

£12,000 scholarship to study at the University of St Andrews, Scotland

communication

2017-Now	Oral Presentations (Scientific) The dynamical mass-to-light ratio of local star clusters	International and national conferences
	 European week of astronomy and space science Tracing star and cluster formation across cosmic times Current and future observing facilities International conference of physics students Ionised gas kinematics in bipolar H II regions European week of astronomy and space science Cardiff Galactic star formation workshop 	Lyon & Liverpool, 2019/18 Sexten, 2018 Belgrade, 2018 Helsinki, 2018 Liverpool, 2018 Cardiff, 2017
2018–Now	Oral Presentations (Outreach)	Conferences and outreach events
2010 11011	Science camps overlooked: a 50-year old science communica	
	 Public communication of science and technology confer The mysterious case of the star cluster 	The state of the s
	Pint of science	Manchester, 2020
	 Merseyside astronomy day 	Liverpool, 2019
	 Palestinian advanced physics school 	Palestine, 2019
	Astrophysics: what it is and why it isn't scary	
	 Ignite Liverpool 	Liverpool, 2018
	50 years of the International Astronomical Youth Camp	
	 Communicating astronomy with the public conference 	Fukuoka, 2018
	 European week of astronomy and space science Astronomy outreach in Palestine 	Liverpool, 2018
	 International meeting for science in Palestine 	Cambridge, 2018
2018-Now	Workshops I lead workshops on the science of science communication	
	Natural sciences society	York, 2019
	 International conference for physics students 	Helsinki, 2018

outreach and other activities

2014–Now	Former	President	(2016–2017)	١
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- historical and cultural astronomy

International Workshop for Astronomy

Austria, 2014

IWA organises the International Astronomical Youth Camp (IAYC), a 3-week research camp which hosts \sim sixty-five 16-24 year olds in a different country each year.

nich hosts \sim sixty-five 16-24 year olds in a different country each year.	
• Designed, carried out, and analysed the IAYC Survey (300+ responde	ents) 2017-2020
 Leading a new sponsorship effort (obtained €1,000+ so far) 	2019-Now
 Creating and maintaining the IAYC Astroletter (330+ subscribers) 	2017-Now
• Fundraised £10,000 for participants from disadvantaged background	ds 2015–2018
General coordinator for the first camp ever held in the UK	UK, 2016
 Secured a £2,000 grant from the Royal Astronomical Society 	2016
 Supervision of ~30 participants on projects relating to 	
 the science of communicating astronomy 	Spain, 2020
 construction of a radio telescope 	Germany, 2015

2018-2019 Palestinian Physics School Organiser Scientists for Palestine

Co-organised the 3rd 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 Editor-in-Chief 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: https://bit.ly/2ZHt9EA

2017-Now **Committee Membership** Astrophysics Research Institute, LJMU, UK

In these roles I focused on diversity and how to improve reach to minority communities.

- Public Engagement and Outreach Committee
- PhD Task Force Committee
- EWASS Local Organising Committee

Liverpool, 2017-2018

Nov 2019 Gender Gap in Science Conference

Trieste, Italy Selected as a representative for the UK, astronomy, and early career researchers.

Summer 2019 **Media Production**

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 Interviewer 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: https://bit.ly/37wcmXX

Mar 2019 Voice of the Future

Houses of Parliament, UK

Selected to represent the Royal Astronomical Society and Institute of Physics, asking Parliamentarians important questions concerning young people in science today.

Dec 2018 People of Space

Twitter

I hosted the @People_of_Space Twitter account for one week, to ~3400 followers.

technical skills, languages, and interests

technical skills: python, IDL, PyRAF, UNIX, OS X, Windows, LATEX, MS Office, Open Office, Photoshop, InDesign, Inkscape, iMovie languages: english (fluent), spanish (basic) interests: classical singing, pottery, painting, swing dancing, travelling, writing, blogging, reading fantasy, sci-fi, and non-fiction

publications

journal articles

Assessing the influence of one astronomy camp over 50 years

Hannah Dalgleish and Josh Veitch-Michaelis

3 (Dec. 2019). Nature Astronomy, DOI: 10.1038/s41550-019-0965-y

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

Hannah Dalgleish, Sebastian Kamann, Christopher Usher, Holger Baumgardt, Nate Bastian, et al.

(2019). MNRAS, submitted

Ionized gas kinematics in bipolar H II regions

Hannah Dalgleish, Steven N. Longmore, Thomas Peters, Jonathan D. Henshaw, Josh Veitch-Michaelis, et al. 478.3 (Aug. 2018). MNRAS, DOI: 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. Dalgleish, A. Fraser-McKelvie, et al. 482.1 (Jan. 2019). DOI: 10.1093/mnras/sty2611

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

H. Baumgardt, C. He, S. M. Sweet, M. Drinkwater, A. Sollima, J. Hurley, C. Usher, S. Kamann, H. Dalgleish, et al. 488.4 (Oct. 2019). DOI: 10.1093/mnras/stz2060