

Olivia C. Jones

CONTACT INFORMATION	UK Astronomy Technology Centre Royal Observatory Edinburgh Blackford Hill, Edinburgh EH9 3HJ	PHONE: +44 (0)131-6688245 E-MAIL: olivia.jones@stfc.ac.uk ORCID: 0000-0003-4870-5547
RESEARCH INTERESTS	Understanding the evolution of baryonic matter, focusing on dust production and processing by evolved stars and supernovae, and the effects metallicity has on stellar populations and star-formation in Local Group galaxies.	
ACADEMIC APPOINTMENTS	STFC Webb Fellow UK Astronomy Technology Centre • Awarded Grant: £624,000	2021 – Present
	Marie Skłodowska Curie/Rutherford International Fellow (cofund) UK Astronomy Technology Centre • Awarded Grant: £280,000	2017 – 2021
	Postdoctoral Fellow – Space Telescope Science Institute	2014 – 2017
EDUCATION	Ph.D. Astrophysics The University of Manchester • Thesis Topic: <i>Dust production by evolved stars in the Local Group</i> • Advisers: Dr. Ciska Kemper and Prof. Albert Zijlstra	2009 – 2013
	MPhys. & BSc. Physics with Astrophysics The University of Leeds <i>First Class, With Honours</i>	2005 – 2009
HONOURS AND AWARDS	• NASA Silver Group Achievement Award • Royal Astronomical Society (RAS) Group Achievement Award • Top 3: ‘Best outstanding partner’ - Institute for Research In Schools	2024 2024 2023
TEACHING EXPERIENCE	UK Astronomy Technology Centre, UK Primary PhD supervisor to C. Nally, and co-PhD supervisor to J. Howell.	2021 – Present
	The University of Edinburgh, UK Supervised five University of Edinburgh students, as a senior honours project supervisor, MPhys project co-supervisor and summer student supervisor.	2018 – 2021
	Space Telescope Science Institute, USA Supervisor to two STScI summer students.	2015 – 2016
PRESS COVERAGE (HIGHLIGHTS)	Three NASA press releases (WR 140; NGC 356; SN1987A) published in numerous international media outlets including the BBC and the Guardian. Four NASA/ESA/Webb Picture of the Month features. BBC, ITV and Sky (TV & Radio) news interviews. Appearances on BBC ‘Sky at Night’ and ‘Science In Action’. Profiled in <i>The Times</i> .	
TECHNICAL SKILLS	• StarBugII PSF photometry package for complex and crowded fields. • JWST/MIRI Medium Resolution Spectrometer calibration team member. • Product Owner - ALMA Proposal & Observation Tool redevelopment. • Developer of JWST post-pipeline data analysis tools.	
TALKS	13 Colloquium (fully funded) at universities worldwide. 9 Invited Talks (including 2 Keynotes). 20+ contributed talks at international conferences.	

	Invited Talks (last 3 years)	
	<ul style="list-style-type: none"> • Keynote European Society for Precision Engineering 03/2023 • Plenary RAS National Astronomy Meeting - Warwick 07/2022 • RAS Ordinary Meeting 11/2022 • IAU Symposium 366 – The Origin of Outflows in Evolved Stars 11/2021 • Astrochemistry in the JWST era 06/2021 • DELVE: The Death-throes of EvoLved stars, a Virtual Encounter 04/2021 	
SERVICES (HIGHLIGHTS)	<ul style="list-style-type: none"> • SOC: The First Year of <i>JWST</i> Science Conference 2023 • Panel Chair & Executive Committee Member JWST Cycle 2 TAC 2023 • Chair SOC: RAS specialist discussion meeting 2022 • <i>JWST</i> Cycle 1 Time Allocation Committee Member 2021 • Chair SOC/LOC: <i>JWST</i> proposal planning workshop, UK ATC 2020 • Co-Chair Special Session: EWASS 2018 • Referee for research proposals to funding agencies 2018 – Present • Journal refereeing: for ApJ, A&A, MNRAS 2016 – Present 	
PUBLIC ENGAGEMENT	PI of the <i>JWST</i> Cosmic Mining Citizen Science project in collaboration with the Institute for Research In Schools. Teaching materials including booklets, webinars and YouTube videos linking the science objectives to the national curriculum electromagnetic radiation and stellar evolution modules developed.	
OUTREACH	I have developed a variety of activities, public talks and hosted or been a guest speaker on several astronomy podcasts / YouTube channels. Extensive outreach efforts include the organisation, running or participation in several large events.	
OBSERVING & DATA ANALYSIS	<ul style="list-style-type: none"> • JWST: MIRI, NIRC<i>am</i> & NIR<i>spec</i> • Spitzer: IRAC, MIPS & IRS • ALMA • VLT: KMOS • HST: WFC3 <ul style="list-style-type: none"> • StarBugII PSF photometry package for complex and crowded fields. • MIRISim and JWST Data Reduction Pipeline technical expert • Radiative transfer modelling: Modust, DUSTY and 2Dust. • Python, IDL, SQL, bash, HTML/CSS, T_EX 	
AWARDED GRANTS & SELECTED PROPOSALS	<ul style="list-style-type: none"> • Co-PI: Jones/Lenkic, ALMA, 12 hours 2022 • PI: Jones, JWST/GTO (Wright/Meixner) 60 hours 2018 – 2021 • PI: Jones, ALMA (EU), 4 hours 2019 • PI: Jones, Hubble Space Telescope/WFC3, 4 orbits (US \$23,000) 2019 • PI: Jones, Very Large Telescope (VLT)/KMOS, 12 hours 2017 • PI: Jones, ALMA, 5 hours 2017 • PI: Jones, Spitzer Space Telescope/IRAC, 3 hours 2014 • PI: Jones, Atacama Pathfinder Experiment (APEX)/SHFI, 4 hours 2014 	
	Total funding worth over US \$120,000.	
LARGE SCIENCE COLLABORATIONS	<ul style="list-style-type: none"> LSST Affiliate PI 2022 – Present EUCLID Resolved Stellar Pops. Working Group 2020 – Present MIRI EC/GTO Science Team for JWST 2015 – Present 	
PROFESSIONAL MEMBERSHIPS	<ul style="list-style-type: none"> • International Astronomical Union (IAU) 2018 – Present • Fellow of the Royal Astronomical Society 2010 – Present 	
REFEREED PUBLICATIONS SUMMARY	I have published 56 papers in peer-reviewed journals, including 14 as first author. Authored 3 white papers and 7 papers in conference proceedings. My refereed papers have been cited more than 1400 times and my H-index is 19.	