

## Felix D. Priestley

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RESEARCH INTERESTS

- Hydrodynamical and astrochemical modelling of star formation
- Dust emission from supernovae and supernova remnants

EMPLOYMENT

<b>Cardiff University, UK</b> Post-doctoral research associate	<b>Jul 2019 -</b>
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<b>University College London, UK</b> Post-doctoral research associate	<b>Oct 2018 - Jun 2019</b>
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EDUCATION

<b>University College London, UK</b> <i>PhD Astrophysics</i> Thesis Title: Molecule and dust emission at the beginnings and ends of stellar evolution Supervisor: Prof. Mike Barlow Awarded Dec 2018	<b>Oct 2015 - Sep 2018</b>
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<b>University College London, UK</b> <i>MSci Astrophysics, 1st Class</i> Dissertation Title: The effects of gravitational collapse on the chemical evolution of prestellar cores Supervisor: Prof. Serena Viti	<b>Sep 2011 - Jun 2015</b>
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PUBLICATION SUMMARY

**Refereed articles:** 18 (12 first author)  
**Total citations:** 137, h-index 6

TECHNICAL SKILLS

**Programming:** Fortran 77/90/Modern (experienced), Python, Linux shell  
**Languages:** English (native speaker), Spanish (intermediate)

TALKS & POSTERS

<b>NAM 2021</b> <i>The properties of shocked dust in supernova remnants</i>	<b>Jul 2021</b>
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<b>Magnetic fields and the structure of the filamentary ISM</b> <i>The characteristic widths of magnetised filaments</i>	<b>Jun 2021</b>
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<b>ISM Scales 2021</b> <i>Filament widths in molecular clouds: are they universal, and if so, why?</i>	<b>May 2021</b>
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<b>Supernovae and Interstellar Dust</b> <i>Observational constraints on dust destruction in shocks</i>	<b>Apr 2021</b>
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	<b>Supernovae and dust tele-talk series</b> <i>Constraining early-time dust formation in core-collapse supernovae</i>	<b>Mar 2021</b>
	<b>The Rise of Metals and Dust in Galaxies through Cosmic Time</b> <i>Cold dust emission from the shocked material around supernova remnants</i>	<b>Oct 2020</b>
	<b>Supernovae and dust tele-talk series</b> <i>Revisiting the dust destruction efficiency of supernovae</i>	<b>Oct 2020</b>
	<b>Supernovae and dust tele-talk series</b> <i>Dust survival in supernova remnants: an observational perspective</i>	<b>Feb 2020</b>
	<b>EWASS 2019</b> <i>The survival of dust grains in the ejecta of core-collapse supernovae</i>	<b>Jun 2019</b>
	<b>Supernova Remnants: An Odyssey in Space after Stellar Death II</b> <i>The survivability of newly-formed dust grains in supernova remnants</i>	<b>Jun 2019</b>
	<b>Cardiff University</b> <i>Molecular tracers of star formation mechanisms</i>	<b>Apr 2019</b>
	<b>The Supernova-Supernova Remnant Connection</b> <i>The pre- and post-shock dust mass in Cassiopeia A</i>	<b>Jan 2019</b>
	<b>Cosmic dust: origin, applications &amp; implications</b> <i>The heating sources for the dust emission from Cassiopeia A</i>	<b>Jun 2018</b>
	<b>The Hydride Toolbox</b> <i>An investigation of the origin of the argonium emission from the Crab Nebula</i>	<b>Dec 2016</b>
	<b>Supernova Remnants: An Odyssey in Space after Stellar Death</b> <i>The origin of the argonium emission discovered in the Crab Nebula</i>	<b>Jun 2016</b>
AWARDS	<b>Jon Darius Memorial Prize</b> <i>Outstanding postgraduate research in Astrophysics</i>	<b>2019</b>
TEACHING	<b>MSc research project supervisor</b> Charles Yin (2019-20) - published in MNRAS	<b>2019-</b>
	<b>Demonstrator, University of London Observatory</b> Assisted with undergraduate practical astronomy courses	<b>Sep 2013 - Jun 2017</b>

OBSERVING EXPERIENCE	<b>Isaac Newton Telescope, La Palma</b> 5 nights observing for UVEX/IPHAS survey	<b>Aug 2017</b>
COMMUNITY	<b>Referee for ApJ</b>	<b>2020 -</b>
	<b>Seminar organiser, Cardiff Astronomy group</b>	<b>2019 -</b>
	<b>SOC Cosmic Star Formation parallel session, NAM</b>	<b>Jul 2021</b>
OUTREACH	<b>Royal Society Summer Science Exhibition</b> JWST exhibit demonstrator	<b>Jul 2018</b>
	<b>Cafe Scientifique</b> Public talk: Cosmic Dust from Exploding Stars	<b>May 2017</b>
REFeree CONTACT INFORMATION	<b>Prof. Anthony Whitworth</b> School of Physics and Astronomy, Cardiff University Queens Buildings, The Parade, Cardiff CF24 3AA, UK anthony.whitworth@astro.cf.ac.uk	
	<b>Prof. Mike Barlow</b> Department of Physics and Astronomy, University College London Gower Street, London, WC1E 6BT, UK mjb@star.ucl.ac.uk	
	<b>Prof. Ilse De Looze</b> Sterrenkundig Observatorium, Ghent University Krijgslaan 281 - S9, 9000 Gent, Belgium ilse.delooze@ugent.be	
	<b>Prof. Serena Viti</b> Leiden Observatory, Leiden University P.O. Box 9513, 2300 RA Leiden, The Netherlands viti@strw.leidenuniv.nl	