

## Felix D. Priestley

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EMPLOYMENT	<b>University College London, UK</b> Post-doctoral research assistant	<b>Oct 2018 -</b>
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 Expected award: Dec 2018	<b>Oct 2015 - Sep 2018</b>
	<b>University College London, UK</b> <i>MSci Astrophysics, 1st Class</i> Masters Thesis Title: The effects of gravitational collapse on the chemical evolution of prestellar cores Supervisor: Prof. Serena Viti	<b>Sep 2011 - Jun 2015</b>
TECHNICAL SKILLS	<b>Programming:</b> Experienced in Fortran (77/90/Modern) and Python, intermediate in Linux shell <b>Codes:</b> UCL_PDR, MOCASSIN, UCLCHEM <b>Languages:</b> English (native speaker), Spanish (intermediate)	
PUBLICATIONS	OH <sup>+</sup> emission from cometary knots in planetary nebulae <b>Priestley, F. D.</b> ; Barlow, M. J. 2018, MNRAS, 478, 1502	
	An Efficient Method for Determining the Chemical Evolution of Gravitationally Collapsing Prestellar Cores <b>Priestley, F. D.</b> ; Viti, S.; Williams, D. A. 2018, AJ, 156, 51	
	Modelling the ArH <sup>+</sup> emission from the Crab nebula <b>Priestley, F. D.</b> ; Barlow, M. J.; Viti, S. 2017, MNRAS, 472, 4444	
	UCLCHEM: A Gas-grain Chemical Code for Clouds, Cores, and C-Shocks Holdship, J.; Viti, S.; Jiménez-Serra, I.; Makrýmallis, A.; <b>Priestley, F.</b> 2017, AJ, 154, 38	
POSTERS	<b>Cosmic Dust</b> The heating sources for the dust emission from Cassiopeia A	<b>Jun 2018</b>

**The AGB-Supernovae Mass Transition** **Mar 2017**  
A photoionization/PDR model for the  $\text{ArH}^+$  and  $\text{OH}^+$  emission from the Crab Nebula

**The Hydrides Toolbox** **Dec 2016**  
An investigation of the argonium emission from the Crab Nebula

**Supernova Remnants: An Odyssey in Space after Stellar Death** **Jun 2016**  
The origin of the argonium emission discovered in the Crab Nebula

TEACHING **Demonstrator, University of London Observatry** **Sep 2013 - Jun 2017**  
Assisted with undergraduate practical astronomy courses

OUTREACH **Royal Society Summer Science Exhibition** **Jul 2018**  
JWST exhibit demonstrator

**Cafe Scientifique** **May 2017**  
Public talk: Cosmic Dust from Exploding Stars

OBSERVING **Isaac Newton Telescope, La Palma** **Aug 2017**  
EXPERIENCE 5 nights observing for UVEX/IPHAS survey

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