

# Eamon O’Gorman

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CONTACT INFORMATION	School of Physics Trinity College Dublin Dublin 2 Ireland	office: +353 (0)1 896 2157 mobile: +353 (0)85 720 3415 e-mail: eogorma@tcd.ie website: maths.tcd.ie/~eogorma
EDUCATION	<b>Trinity College Dublin</b> , Dublin, Ireland <i>Doctor of Philosophy</i> <ul style="list-style-type: none"><li>• Advisor: Professor Graham Harper</li><li>• Thesis submitted on 30th September 2013</li><li>• Thesis defence on 15th November 2013</li></ul> <b>October 2009 – present</b>  <b>International Space University (ISU)</b> , Strasbourg, France M.Sc., Space Studies <b>September 2008 – August 2009</b>  <b>University College Dublin (UCD)</b> , Dublin, Ireland B.Sc., Theoretical Physics, (First class honours) <b>September 2003 – June 2007</b>	
HONOURS AND AWARDS	<ul style="list-style-type: none"><li>• Enterprise Ireland/European Space Agency scholarship to study at the ISU, 2008</li><li>• UCD Entrance Scholar, 2003</li></ul>	
REFEREED PUBLICATIONS	<b>O’Gorman, E.</b> , Harper, G. M., Brown, A., Drake, S., Richards, A. M. S. <i>Multi-wavelength Radio Continuum Emission Studies of Dust-free Red Giants</i> , 2013, AJ, 146, 98.  Richards, A. M. S., Davis, R. J., Decin, L., Etoke, S., Harper, G. M., Lim, J. J., Garrington, S. T., Gray, M. D., McDonald, I., <b>O’Gorman, E.</b> , Wittkowski, M. <i>e-MERLIN resolves Betelgeuse at <math>\lambda</math> 5 cm: hotspots at <math>5 R_*</math></i> , 2013, MNRAS, 432, L61.  <b>O’Gorman, E.</b> , Harper, G. M., Brown, J. M., Brown, A., Redfield, S., Richter, M. J., Requena-Torres, M. A. <i>CARMA CO(<math>J = 2 - 1</math>) Observations of the Circumstellar Envelope of Betelgeuse</i> , 2012, AJ, 144, 36.  Sada, P. V., Deming, D., Jennings, D. E., Jackson, B. K., Hamilton, C. M., Fraine, J., Peterson, S. W., Haase, F., Bays, K., Lunsford, A., <b>O’Gorman, E.</b> <i>Extrasolar Planet Transits Observed at Kitt Peak National Observatory</i> , 2012, PASP, 124, 212.  Sada, P. V., Deming, D., Jackson, B., Jennings, D. E., Peterson, S. W., Haase, F., Bays, K., <b>O’Gorman, E.</b> , Lunsford, A. <i>Recent Transits of the Super-Earth Exoplanet GJ 1214b</i> , 2010, ApJ, 720, L215.	
CONFERENCE PRESENTATIONS	<b>Oral:</b> <b>O’Gorman, E.</b> <i>Radio Interferometric Studies of Cool Evolved Stellar Mass Outflows</i> . DIAS Seminar, Dublin, Dublin Institute for Advanced Studies, Ireland, February 2013.  <b>O’Gorman, E.</b> , et al. <i>Probing the Thermodynamics of Red Giant Mass Outflows with the JVLA</i> . Astronomical Science Group of Ireland, Galway, Ireland, November 2012.  <b>O’Gorman, E.</b> , et al. <i>Probing the Thermodynamics of Red Giant Mass Outflows with the JVLA</i> . Radio Stars and Their Lives in the Galaxy, MIT Haystack Observatory, MA, USA, October 2012.  <b>O’Gorman, E.</b> <i>CO in the Circumstellar Envelope of Betelgeuse with CARMA</i> . The 41st Young European Radio Astronomers Conference, University of Manchester/Jodrell Bank Observatory, UK, July 2011.	

**Poster:**

**O’Gorman, E.**, Harper, G. M. *What is Heating Arcturus’ Wind?*

16th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, University of Washington, Seattle, USA, August 2010.

ACCEPTED  
PROPOSALS  
AS PI

**O’Gorman, E.**, et al. *Beta Gem b: An alternative candidate in the search for extrasolar planetary radio emission (II)*, GMRT, 2013, ID: 25\_039

**O’Gorman, E.**, et al. *Beta Gem b: An alternative candidate in the search for extrasolar planetary radio emission*, GMRT, 2013, ID: 24\_013

**O’Gorman, E.**, et al. *Thermal Continuum Mapping of Red Giant Chromospheres*, CARMA, 2012, ID: c1038

**O’Gorman, E.**, et al. *L and S band Continuum Observations of Arcturus: Completing a Clean Sweep*, VLA, 2012, ID: VLA-12A-472

SHORT-TERM  
RESEARCH  
STAYS

**National Centre for Radio Astrophysics, India, 2013:** Collaboration with Dr. Sandeep Sirothia to prepare our GMRT 150 MHz observations and carry out initial data analysis.

**Harvard-Smithsonian Center for Astrophysics, USA, 2011:** Collaboration with Dr. Joanna Brown to carry out initial analysis on our CARMA millimeter data using CASA.

**NASA Goddard Space Flight Center, USA, 2009:** Three month student internship with Dr. Drake Deming in the area of transiting exoplanet characterization. Analyzed data from the FLAMINGOS infrared camera on the 2.1 m Kitt Peak National Observatory Telescope.

TEACHING  
EXPERIENCE

- September 2010 - April 2012: Bi-weekly physics tutorials for undergraduate engineering students.
- September 2009 - April 2010: Teaching assistant for undergraduate physics students.

OUTREACH

- Throughout the year we carry out a “Build a Comet in the Lab” workshop for both secondary school students interested in pursuing physics in college, and for primary school students from disadvantaged backgrounds.
- Regularly visit secondary schools to discuss career opportunities in physics and astrophysics to prospective students.

PROGRAMMING

IDL, Python, CASA, L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub>, PHP, BASH, and UNIX-like operating systems.

PROFESSIONAL  
ORGANISATIONS

- Fellow of the Royal Astronomical Society
- Associate Member of the Institute of Physics

OTHER  
INTERESTS

I love the outdoors and playing sport. I have played hurling (a traditional Gaelic sport) since I was a child. In 2011 I was named Trinity College senior hurling player of the year.

REFEREES

**Prof. Graham Harper**

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