

## Marco Rocchetto – Curriculum Vitae (Last updated in February 2016)

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CONTACT INFORMATION	University College London Department of Physics & Astronomy Gower Street, WC1E 6BT London, UK	Mobile: +44 (0)776 7853055   Home: +44 (0)20 82019243   E-mail: rocchetto.marco@gmail.com   Web: marcorocchetto.co.uk
RESEARCH INTERESTS	<b>Modelling of exoplanetary atmospheres; Time series photometry of transiting exoplanets;</b>	
CURRENT POSITION	<b>PhD student</b> at University College London, UK Funded by the Science & Technology Facilities Council	
EDUCATION	<b>PhD in Astrophysics</b> , University College London, UK <i>Thesis Title (provisional):</i> Cosmochemistry of Extrasolar Planets <i>Supervisors:</i> Prof Giovanna Tinetti, Dr Ingo Waldmann	<b>2013–present</b>
	<b>MSci in Astrophysics</b> , University College London First-class Honours and inclusion in the Dean’s list <i>Master project topic:</i> Characterisation and follow-up of transiting exoplanets <i>Supervisor:</i> Dr Steve Fossey	<b>2008–2013</b>
PEER-REVIEWED JOURNAL PUBLICATIONS	<ol style="list-style-type: none"><li>8. A. Tsiaras, M. Rocchetto et al. (2015). <i>Detection of an atmosphere around the super Earth 55 Cancri b</i>. Accepted in ApJ. arXiv:1511.08901</li><li>7. A. Tsiaras, I. Waldmann, M. Rocchetto et al. (2015). <i>A new approach to analysing HST spatial scans: the transmission spectrum of HD 209458b</i>. Submitted to ApJ. arXiv:1511.07796</li><li>6. O. Venot, M. Rocchetto, S. Carl, A. R. Hashim, L. Decin (2015). <i>Influence of stellar flares on the chemical composition of exoplanets and spectra</i>. Submitted to ApJ</li><li>5. I. P. Waldmann, M. Rocchetto et al. (2015). <i>Tau-REx II: Retrieval of emission spectra</i>. ApJ, 813,13</li><li>4. I.P. Waldmann, G. Tinetti, M. Rocchetto et al. (2015). <i>Tau-REx I: A next generation retrieval code for exoplanetary atmospheres</i>. ApJ, 802, 107</li><li>3. M. Rocchetto, J. Farihi, B. Gaensicke, C. Bergfors (2014). <i>The frequency and infrared brightness of circumstellar discs at white dwarfs</i>. MNRAS, 449, 574</li><li>2. C. Bergfors, J. Farihi, P. Dufour, M. Rocchetto (2014). <i>Signs of a faint disc population at polluted white dwarfs</i>. MNRAS, 444, 2147</li><li>1. J. Turner, et al. (2013). <i>Near-UV and optical observations of the transiting exoplanet TrES-3b</i>. MNRAS, 248, 678</li></ol>	
CONFERENCES	<ul style="list-style-type: none"><li>• ARIEL Workshop, January 2016 – Barcelona, Spain (<i>oral</i>)</li><li>• Extreme Solar Systems III, December 2015 – Hawaii, USA (<i>poster</i>)</li><li>• Enabling Transiting Exoplanet Science with JWST, November 2015 – Baltimore, USA (<i>poster</i>)</li></ul>	

- IAU General Assembly, 2015 – Honolulu, USA (*poster*)
- Pathways Towards Habitable Planets II, 2015 – Bern, Switzerland (*oral*)
- In the Spirit of Lyot – Montreal, Canada (*poster*)
- The UK Community Exoplanet Conference, 2015 – London, UK (*oral*)
- Twinkle Mission open science meeting, 2015 – London, UK (*oral*)
- European Planetary Science Congress, 2014 – Lisbon, Portugal (*oral*)
- Characterizing Planetary Systems Across the HR Diagram, 2014 – Cambridge, UK (*poster*)
- 19th European White Dwarf Workshop, 2014 – Montreal, Canada (*oral*)
- European Planetary Science Congress, 2013 – London, UK (*poster*)

#### AWARDS

**Award of the Clockmaker’s Company**, 2014

**Dean’s list**, Faculty of Mathematical and Physical Sciences, UCL, 2013

**Halley prize, Huggings prize, Sessional prize and Herschel prize** for best performance in 1st, 2nd, 3rd and 4th year in Astrophysics, UCL, 2010–2013

#### TEACHING EXPERIENCE

**Teaching assistant and demonstrator at UCL for the following courses:**

Undergraduate Practical Astronomy Course – Year 1	<b>2010, 2016</b>
Undergraduate Practical Astronomy Course – Year 3	<b>2011, 2014, 2015</b>
Certificate in Astronomy – Practical Course	<b>2012, 2013</b>

#### OUTREACH

Invited Lecture at “Liceo G.B. Benedetti” – Venice (Italy)	<b>2016</b>
Festival of Astronomy “ <i>Your Universe</i> ”, London	<b>2010–2015</b>
School tours at UCL Observatory, London	<b>2010–today</b>

#### PROFESSIONAL EXPERIENCE

**UCL Observatory**, London, UK **2011-present**  
Development of front- and back-end codes and interfaces for a robotic telescope. Creation of data reduction pipelines and online image archive. Ongoing managing and support of image archive server.

**University of Antofagasta**, Antofagasta, Chile **May 2015**  
Installation and configuration of a Planewave 60” telescope at Ckoirama Observatory in the Atacama desert. Implementation of the same codes and interfaces and archival features developed for the UCL Observatory.

#### OTHER WORK EXPERIENCE

Co-founder, web developer, server administrator of DiscoveringVenice.com from 2005

#### SOFTWARE

Very good experience with Python, C++, Fortran, Javascript, HTML, PHP, MySQL