# Page 1: Home

|  |  |
| --- | --- |
| Main Research Interests  * Cometary science * Interaction of unmagnetized small bodies with the solar wind * Exoplanets (MSci research project: Detection of exoplanetary transits at University of London Observatory)  Career and Positions Held **2010 - present:**  Ph. D. student in Planetary Science,  UCL Mullard Space Science Laboratory.  Pic of lab and office mates (ask for permission)  **September 2012 - November 2013,  (Break from Ph.D. studentship) :**  Student support astronomer,  Isaac Newton Group of Telescopes.  Figure 1: Pic of me observing through telescope  Figure 2: INT pic (get from web). 2.5 m telescope. Wide Field camera and Intermediate Dispersion Spectrograph  Image credits: ING (Isaac Newton Group of Telescopes)  2004-2008  MSci 2:1 Upper second class honours  University College London  Pic of ULO Ph.D. supervisors [Geraint H. Jones](http://www.mssl.ucl.ac.uk/%7Eghj/) (Primary Supervisor)  [Andrew J. Coates](http://www.mssl.ucl.ac.uk/www_plasma/misc/ajc.php/) (Secondary Supervisor)  **Projects undertaken**  Link to Projects page Contact E-mail: y.ramanjooloo.09 at ucl.ac.uk  Tel: +44 (0) 1483 204 193 (or 204 100 for switchboard)  Postal address:  **Yudish Ramanjooloo Mullard Space Science Laboratory  Department of Space & Climate Physics  University College London  Holmbury St. Mary  Dorking  Surrey RH5 6NT**  **United Kingdom** Page 2: Outreach and Conferences **Outreach**   * Westminster Under school: Rocket building workshop and overview of the solar system * Winchester Solar science summer fair * MSSL Open Day * Royal Society ‘Catch a comet’ summer exhibit * Volunteer for the first MSSL work experience workshop * Multiple outreach events for the Cranleigh scouts club   PICS: Royal soc exhibit and comet making pic for outreach Conferences and workshop attended  * Europlanet Science communication in the media, Paris, 2010 * European Planetary Science Congress, Rome, Italy, 2010 * RAS Specialist Discussion meeting "Structure and physical processes in solar system magnetotails: planets, moons and comets", London, UK, 2010 * Autumn Magnetospheres Ionospheres Solar-Terrestrial (MIST) meeting, London, UK, 2010 * Autumn Magnetospheres Ionospheres Solar-Terrestrial (MIST) meeting, London, UK, 2011 * American Geophysical Union Fall meeting, San Francisco, CA, USA, 2011 * Posters at AGU Fall meeting, San Francisco, CA, USA, 2010 and EPSC-DPS, Nantes, France, 2011 * HelioCorona, Bad Honnef, Germany, 2012 * Europlanet Rosetta 2 day workshop 2012 * UK/Germany National Astronomy Meeting, Manchester, 2012. Awarded Risbeth prize winner 2012 for best presentation. A Sky at Night web article also featured our technique after this presentation. * Asteroids, Comets, Meteors 2012, Niigata, Japan, 2012 * RAS Specialist Discussion meeting, Comets’ interactions with other solar system bodies, London, UK, 2013 * Python and MySQL day workshop, UCL 2013 * European Planetary Science Congress, London, UK, 2013 * Asteroids, Comets, Meteors 2014, Helsinki, Finland, 2014 * 6th Alfven conference, London 2014 and member of Local Organising Committee  Page 3: Scientific projects undertaken  * **Research Topic: The structure of the inner heliosphere as revealed by comets**   During my Ph.D., I have developed an innovative technique to analyse the interaction between the solar wind and comets and their tails. My core aim was to characterise the speed and nature of the solar wind in an extremely cost-effective way, by identifying features in images of a comet’s ion tail and understanding these features’ associations with the solar wind. To date, our measurements of the solar wind in the inner heliosphere have been limited to spacecraft orbits. I have developed the software to derive several estimates of the local solar wind radial velocity from each image of a comet, whether sourced from amateur astrophotographers or professionally funded spacecraft. This project will serve to test the reliability of comets as a diagnostic tool to monitor changes in the heliosphere during the solar activity cycle, and the occurrence of interplanetary transient disturbances such as coronal mass ejecta.   * **Research Topic: Discovering Asteroids**   Using a combination of astronomical software, such as THELI and Astrometrica, I have analysed Wide-Field camera (WFC) images taken during my studentship at the INT for new undiscovered asteroids. THELI is used within the data reduction pipeline and Astrometica to stack and blink the reduced images. This project is currently on hold for the time being.  Summarise below?  Detection of exoplanetary transits   * Masters project: "The detection of extrasolar planets using the transit method" – involved frequent use of telescope and CCD facilities, IRAF data reduction software, presentations and thesis of findings * Undertook Masters research project and attended weekly sessions at the University of London Observatory * Weekly session involved completing three projects which developed existing skills such as efficient and rapid research techniques, time management and solving complex analytical problems   ULO 3rd mini research projects:   * Projects included "Determining the mass of the first extrasolar planet, 51 Pegasi b" using rad vel to infer existence of planet and "Calculating the orbital parameters of a comet" * Projects required mastering of UNIX/Linux based software packages   **Publications** |  |
| Pics: ISON, Andromeda and Lovejoy and Gustva tuck.  Pic of comets that I have taken  First attempt at false colour imaging of Andromeda galaxy. Taken with INT (Put full credit)    This page was last modified on 22 August, 2014 by Aidan Jalali |  |

# Page 4 About me

Born and raised in Mauritius, I emigrated to the UK in 2000 with the family and subjected to a massive culture shock, from the school system to the lack of camaraderie in one’s neighbourhood. I attended UCL for an undergraduate Masters (MSci) course in Astronomy and Physics. This eventually lead to my current status as a Ph.D. student as well as my stints as a student support astronomer at the Isaac Newton Group of Telescopes in La Palma. My fascination with astronomy stemmed from a young age, starting with an impromptu lecture given by a substitute teacher.

**Non-academic work**

Obtained skills as both an accountant’s assistant during a summer part time job to a telephone market research surveyor to working as a bartender both in a pub and a nightclub.

Worked in a software company as a Junior product manager…

**Experian QAS, Clapham Common, UK**

**June 2009 - December 2009**

**Product Executive**

* Junior Product management role
* Responsible for the entire lifecycle of several software packages
* Global go-to product expert (Product champion) for multiple products
* Attended training courses such as: Negotiation training, teamwork training, management training, Prince 2 project management training

**August 2008 - June 2009**

**Product Support Analyst**

* Technical approvals of complex quotes and orders. Tasked with ensuring technical compatibility of software and data with the customers’ (SMB and B2B) operating systems prior to purchase
* Tech Support Liaison - Streamlining business processes between Tech Support team and my team
* Internal (international) Helpdesk - Fielding queries about every software and data Experian QAS offers
* In charge of the company’s online Data storage system in terms of improving the functionality of the database and keeping it up to date with accurate legal, financial and technical information

**Hobbies**

Dancing. I performed in 5 dance shows at UCL at the Bloomsbury Theatre,

hiking, sci-fi, studying new languages, travelling and learning about new cultures from the locals. Since attending MSSL, I have participated in the annual croquet tournaments as part of the Planetary A-Team. This year, I am captaining my own team known as the Lethal Pandas. Our challenge is to reach the final, where we will be playing in full Panda outfits.

* Pics of dance show
* Croquet: Pic. Lethal pandas

# Hiking pics

# Page 5: Adventures: Locations travelled

Miscellaneous collection of remaining pics

hiking pic

ACM 2012

Pic of dance show

Pic of me dancing

ISSI meeting in Switzerland . International meeting to write a review paper on near-sun comets

Pics of MSSL?

ACM 2014 group pic