Maria Manolopoulou

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Education

2014 – present: PhD student at the School of Physics and Astronomy of The University of Edinburgh, Thesis: "Optical and X-ray properties of galaxy clusters", Supervisors: Prof. Bob Mann, Prof. Catherine Heymans

2011 – 2014: MSc degree in Computational Physics at the Physics Department of the Aristotle University of Thessaloniki, Thesis: "Galaxy clusters rotation", Supervisor: Prof. Manolis Plionis

2007 – 2011: BSc degree in Physics at the Physics Department of the Aristotle University of Thessaloniki, Thesis: "Dynamical evolution of extrasolar planetary systems", Supervisor: Asoc. Prof. George Voyatzis

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Talks - Conferences

August 2017: **Seminar talk**, "XCS DR2 - SDSS and the clusters in voids", Royal Observatory Edinburgh, UK

July 2017: **Talk**, XCS annual meeting, Lancaster University, UK

February 2017: **Talk**, "Cosmology on Safari" conference, KwaZulu-Natal, South Africa

January 2017: **Talk**, "The Advantages of Resolution" Durham-Edinburgh Extragalactic workshop XII, Royal Observatory, Edinburgh, UK

November 2016: **Talk**, SUPA Cormack Astronomy meeting, The Royal Society of Edinburgh, Edinburgh, UK

June 2016: **Poster**, "Hot spots in the XMM sky: Cosmology from X-ray to Radio" conference, Mykonos island, Greece

December 2014: **Poster**, "Galaxy Clusters Rotation", "Presentation of Research Activity Programmes in Graduate Studies" meeting, Aristotle University of Thessaloniki

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Awards - Distinctions

November 2017: Full funding to attend the 3^{rd} ASTERICS VO School from the organising committee, at ESAC, Madrid, Spain

April 2016: Full funding to attend the BIGSKYEARTH Training School on big data from the organising committee at DLR, Oberpfaffenhofen, Germany

April 2014: Full PCDS scholarship for PhD studies at the University of Edinburgh

October 2011: First in selection rank for the MSc in Computational Physics of the Aristotle University of Thessaloniki

February 2010: Top student in my undergraduate year, awarded Retributive Scholarship at Aristotle University of Thessaloniki by the Greek Scholarships Foundation (I.K.Y)

March 2008: Award of excellence for being in the top 10% in the ranking of students selected to enter the BSc in Physics at the Aristotle University of Thessaloniki by the Greek government

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Teaching Experience

January 2015 – March 2018: Tutor to undergraduate courses "Observational Astronomy", "Introductory Astrophysics", "Telescope Group Project", School of Physics and Astronomy, The University of Edinburgh

September 2016 – December 2017: Lecturer of public short courses for Centre for Open Learning of The University of Edinburgh ("Local Universe", "Solar System")

Autumn 2013: Teaching assistant to undergraduate students, programming in fortran95, gnuplot and using linux terminal, Physics Department, Aristotle University of Thessaloniki

Autumn 2010: Teaching assistant for the undergraduate course "Introduction to Modern Astronomy", Physics Department, Aristotle University of Thessaloniki

2008-2012: Personal tutor of children in Secondary and High School in Physics, Mathematics, Chemistry and Biology modules

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Public Outreach

September 2014 – January 2018: Research information and write for the website of the "Women in High Performance Computing" at the University of Edinburgh

September 2016 – December 2017: Lecturer of public short courses for Centre for Open Learning of University of Edinburgh ("Local Universe", "Solar System")

October 2016: Volunteer, familiarising visitors with Astronomy, Tim Peake visit event, Dynamic Earth, Edinburgh, UK

September 2016: ROE Open Days volunteer, informing visitors about the research held at the Royal Observatory Edinburgh, UK

September 2015: ROE Open Days volunteer, informing visitors about the research held at the Royal Observatory Edinburgh, UK

Publication List

The total citation number of the papers I am author is 38. I am part of the XCS collaboration and have worked in XCS various projects that are going to be published soon. I am first author of two XCS papers that are both going to be published within the following months.

Refereed:

Ebrahimpour, L., Viana, P. T. P., **Manolopoulou, M.**, Vergara-Cervantes, C., Romer, A. K., Bhargava, S., Giles, P., Bermeo-Hernandez, A., Collins, C. A., Hilton, M., Hoyle, B., Liddle, A. R., Mann, R. G., Mayers, J. A., Miller, C. J., Nichol, R. C., Rooney, P. J.; Sahln, M. and Stott, J. P., *The XMM Cluster Survey: joint modelling of the* $L_{\rm X} - T$ *scaling relation for clusters and groups of galaxies*, 2018, http://adsabs.harvard.edu/abs/2018arXiv180503465E

Manolopoulou, M., and M. Plionis, *Galaxy clusters rotation*, MNRAS 465: (2017) 2616-2633, http://adsabs.harvard.edu/abs/2017MNRAS.465.2616M

Wilcox, H., D. Bacon, R. C. Nichol, P. J. Rooney, A. Terukina, A. K. Romer, K. Koyama, G.-B. Zhao, R. Hood, R. G. Mann, M. Hilton, **M. Manolopoulou**, M. Sahlén, C. A. Collins, A. R. Liddle, J. A. Mayers, N. Mehrtens, C. J. Miller, J. P. Stott, and P. T. P. Viana, *The XMM Cluster Survey: testing chameleon gravity using the profiles of clusters*, MNRAS 452: (2015) 1171-1183, http://adsabs.harvard.edu/abs/2015MNRAS.452.1171W

In internal collaboration review:

Manolopoulou, M. et al., *The XMM Cluster Survey: XCS DR2 - SDSS - The second XCS data release in the SDSS region* (to be submitted to MNRAS within the following weeks, current draft: http://www.roe.ac.uk/~manolo/xcs.pdf)

In preparation:

Manolopoulou, M. et al., *The XMM Cluster Survey: Comparison of optical and X-ray properties of clusters inside and outside voids* (to be submitted to MNRAS)
