

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Andrew M. Taylor
Place of Birth: Oxford, UK
Date of Birth: March 18, 1981
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AREAS OF RESEARCH SPECIALIZATION

- Gamma-ray Astrophysics and emission processes
- High-Energy Cosmic Rays
- High-Energy Neutrino Astrophysics

EMPLOYMENT

Present Employment

Job Title: Schroedinger Fellow at the Dublin Institute for Advanced Studies, Ireland
Start date: 01/08/2012
Job description: Research on cosmic ray propagation in galactic outflows, probes of cosmic ray source distribution. Convener for HESS extragalactic group. Leader of HESS-II first results task force. Referee for International Periodicals. Co-supervisor of PhD student. Organiser of Colloquia.

Past Employment

Aug 2009 - Jul 2012 PostDoctoral Researcher
ISDC, University of Geneva, Switzerland
Jan 2007 - Jul 2009 PostDoctoral Researcher
MPIK, Heidelberg, Germany

EDUCATION

<i>Apr 2007</i>	PhD in Astrophysics, University of Oxford, UK
<i>Sep 2003 - Dec 2006</i>	Graduate Student, PPARC University of Oxford, UK supervisors: Prof. Subir Sarkar and Prof. Joe Silk
<i>Aug 2004</i>	SLAC Summer Institute Stanford, California, USA
<i>Sep 1999 - Jun 2003</i>	1st Class Degree, Master of Physics, Undergraduate Student, Pembroke College University of Oxford, UK

LIST OF PUBLICATIONS

See *List of Publications* as a separate document.

REVIEW/REFeree ASSIGNMENTS FOR INTERNATIONAL PERIODICALS

Physical Review Letters	<i>2010 - present</i> , 17 articles reviewed
Astroparticle Physics	<i>2010 - present</i> , 5 articles reviewed
Physical Review D	<i>2011 - present</i> , 8 articles reviewed
Nature	<i>2014 - present</i> , 1 article reviewed
MNRAS	<i>2015 - present</i> , 2 articles reviewed
Physical Review B	<i>2015 - present</i> , 1 article reviewed

AWARDS AND COMMENDATIONS

<i>Sep 2014 - Apr 2016</i>	Deputy Convener for the Extragalactic Group within HESS collaboration (Elected Head Convener for the HESS Extragalactic Group, starting <i>Sep 2016</i>)
<i>Jul 2014</i>	Commendation from external review panel assessing DIAS (including Prof. Andrew King and Prof. Jim Pringle): “ <i>For someone at his stage his research output and impact are excellent. He should be well placed to find an academic post by the end of his Fellowship.</i> ”
<i>Jan 2013</i>	Astroparticle Physics, “One of the Most Valued Reviewers” Prize 2012
<i>Aug 2012 - present</i>	Schroedinger Fellowship, DIAS, Ireland
<i>Jan 2011</i>	Physics Letters B, “Most Valued Reviewer” Prize 2010
<i>Jul 2009</i>	IRCSET 3 year Postdoctoral Grant Awarded
<i>Jun 2008</i>	Institute of Physics “Best Thesis” Prize 2008
<i>Dec 2006</i>	University of Oxford Graduate Symposium Prize
<i>Sep 1999 - Jun 2003</i>	David Rowland Scholarship, Pembroke College, Oxford University, UK

TEACHING EXPERIENCE

<i>Jan 2013 - Present</i>	Co-supervisor of PhD Student Carlo Romoli DIAS, Dublin, Ireland
<i>May 2016 - Present</i>	Supervisor of Fourth Year Student Emma Goodwin Dublin City University, Ireland
<i>Oct 2013 - Apr 2014</i>	Supervisor of Fourth Year Student Antanas Cesna Dublin City University, Ireland
<i>Mar 2014 - Apr 2014</i>	Series of 4 Lectures on Astrophysics to Fourth Year Students Dublin City University, Ireland
<i>Feb 2013 - Mar 2013</i>	Series of 6 Lectures on Astrophysics to First Year Students Maynooth University, Dublin, Ireland
<i>Mar 2012</i>	Series of 2 Lectures on Extragalactic Cosmic Rays Ultra High Energy Cosmic Rays Workshop, Sao Carlos, Brazil
<i>Jul 2011</i>	Series of 2 Lectures on the Origin and Extragalactic Cosmic Rays High Energy Astrophysics Summer School, Dublin, Ireland
<i>Aug 2010 - Aug 2012</i>	Co-supervisor of PhD Student Celine Tchernin ISDC, University of Geneva, Switzerland
<i>Aug 2008 - Sep 2008</i>	Series of 4 Lectures on Ultra High Energy Particles 3rd Cosmic Ray Summer School, Arequipa, Peru
<i>Sep 2005 - Jun 2006</i>	College Tutorials on Astrophysics and Cosmology Undergraduate Third Year students Queens College, Oxford University, UK
<i>Sep 2005 - Jun 2006</i>	College Tutorials on Electromagnetism Undergraduate First and Second Year students Queens College, Oxford University, UK
<i>Sep 2004 - Dec 2004</i>	Cosmology and Astroparticle Physics Undergraduate 4th Year American students Stanford House, Oxford University, UK
<i>Sep 2003 - May 2004</i>	College Tutorials, Undergraduate 1st Year Physics, Biology students Pembroke College, Oxford University, UK

LIST OF INVITED TALKS

<i>May 2016</i>	Extragalactic Cosmic Rays above the Iron Knee GSSI, L'Aquila, Italy
<i>May 2016</i>	HESSI/II Extragalactic Source Properties Workshop on Perspectives on the Extragalactic Frontier, Trieste, Italy
<i>Apr 2016</i>	Extragalactic Cosmic Rays above the Iron Knee Contested Astrophysics Workshop, Dublin, Ireland
<i>Mar 2016</i>	Extragalactic Cosmic Rays above the Iron Knee Next-Generation Techniques for UHE Astroparticle Physics, Chicago, USA
<i>Dec 2015</i>	Galactic Outflows, Cosmic Rays, and Non-Thermal Signatures Gamma-Rays and Dark Matter, Innsbruck, Austria
<i>Sep 2015</i>	Extragalactic Cosmic Rays in the Knee to Ankle Region HAP, Karlsruhe, Germany

- Feb 2015* **Cosmic Rays, Galactic Outflow, and Non-Thermal Emission**
GRAPPA Seminar, Amsterdam, Netherlands
- Jan 2015* **A Parameterisation of Gamma-Ray Production Cross-Sections for pp-Interactions in a Broad Energy Range**
SUGAR Workshop, Geneva, Switzerland
- Oct 2014* **A Galactic Halo Origin for the Diffuse Neutrino Flux Detected by IceCube**
GSSI Workshop, L'Aquila, Italy
- Oct 2014* **TA vs Auger and the Physics of UHECR**
GSSI Workshop, L'Aquila, Italy
- Sep 2014* **A Galactic Halo Origin for the Diffuse Neutrino Flux Detected by IceCube**
NOW 2014, Otranto, Italy
- Aug 2014* **Multi-Messenger Aspects: Composition, Propagation & Acceleration**
ISVHECRI14, Geneva, Switzerland
- Aug 2014* **A Galactic Halo Origin for the Diffuse Neutrino Flux Detected by IceCube**
VHEPU, Quy Nhon, Vietnam
- Apr 2014* **Galactic Cosmic Rays**
DCU, Dublin, Ireland
- Nov 2013* **Probing UHECR with Photons**
MACROS Workshop, Paris, France
- Sep 2013* **Galactic Cosmic Rays**
14th ICATPP, Como, Italy
- Dec 2012* **Galactic Cosmic Rays**
TEVPA Meeting, Mumbai, India
- Nov 2012* **Probing Extragalactic Magnetic Fields**
EBL Workshop for CTA, Munich, Germany
- Nov 2012* **Requirements on Ultra High Energy Cosmic Ray Sources**
Governing Board Meeting, DIAS, Dublin, Ireland
- Nov 2012* **Probing Extragalactic Magnetic Fields**
60th Birthday of Felix Aharonian, Barcelona, Spain
- July 2012* **Extragalactic Background Light and Extragalactic Magnetic Fields**
Gamma 2012, Heidelberg, Germany
- Mar 2012* **COSMIC RAY PROPAGATION: High Energy Proton and Nuclei Interactions In Extragalactic Space**
Astroparticle Physics Workshop, IFSC, USP, Sao Carlos, Brazil
- Feb 2012* **The Need For Hard Spectra Sources of Nearby Heavy Cosmic Rays**
International Symposium on Future Directions in UHECR Physics, (CERN) Geneva, Switzerland
- Dec 2011* **Extragalactic magnetic field constraints from multi-GeV observations of blazars**
Joint DIAS-OKC Workshop, Dublin, Ireland
- Jul 2011* **The Origin of Extragalactic Cosmic Rays**
Dublin Summer School on High Energy Astrophysics, Dublin, Ireland
- Jun 2011* **Probing Local UHECR Sources with Nuclei and Gamma-Rays**
Nusky Workshop on Cosmic Rays and Cosmic Neutrinos 2011, Trieste, Italy
- Dec 2010* **EGMF Constraints from Simultaneous Blazar Observations**
Workshop on Extragalactic Magnetic Fields 2010, Paris, France

- Oct 2010* **Signatures and Consequences of UHECR Nuclei**
ICATPP 2010, Como, Italy
- Jun 2009* **Propagating UHECRs- Knowns and Unknowns**
SOCoR workshop, Norway, Trondheim
- Apr 2007* **High Energy Neutrinos from Astrophysical Accelerators of Cosmic Ray Nuclei**
NAM 2007, University of Preston, UK

OUTREACH TALKS AND EVENTS

- Nov 2015* **Seeing the Invisible**
Dunsink Observatory, Dublin, Ireland
- Nov 2013* **Principles in High Energy Astrophysics**
Dunsink Observatory, Dublin, Ireland
- Sep 2013* **Seeing the Invisible**
Culture Night, Dunsink Observatory, Dublin, Ireland
- Mar 2013* **Principles in High Energy Astrophysics**
Dunsink Observatory, Dublin, Ireland
- Feb 2013* **Very High Energy Astrophysics- Cosmic Labs**
Trinity College Physics Society, Dublin, Ireland
- Jan 2013* **The Nature of Stars (Our Sun)**
Grenada Astronomical Society Meeting, St George's, Grenada
- Sep 2012* **Seeing the Invisible**
Culture Night, Dunsink Observatory, Dublin, Ireland
- Jun 2012* **The Nature of the Sun**
Solar Festival, Dunsink Observatory, Dublin, Ireland
- May 2006 - Sep 2006* **Heavens' Kitchen**
Royal Society Summer Science Exhibition 2006
<http://www-astro.physics.ox.ac.uk/~rxt/html/exhibit.htm>

LANGUAGE SKILLS

- English (fluent)
- German (competent)
- Spanish (competent)
- French (basic)

IT SKILLS

- Programming: Fortran, C++, bash
- Document preparation: LaTeX, gnuplot, html

INTERESTS

Environmental conservation, ecology, bushcraft