

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

Aug 2012 - present Schroedinger Fellowship
DIAS, Dublin, Ireland
Aug 2009 - Jul 2012 PostDoctoral Researcher
ISDC, University of Geneva, Switzerland
Jan 2007 - Jul 2009 PostDoctoral Researcher
MPIK, Heidelberg, Germany

EDUCATION

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

LIST OF PUBLICATIONS

See *List of Publications* in Supporting Documents.

REVIEW/REFeree ASSIGNMENTS FOR INTERNATIONAL PERIODICALS

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

AWARDS AND COMMENDATIONS

Sep 2014 - Apr 2016	Deputy Convener for the Extragalactic Group within HESS collaboration (Elected Head Convener for the HESS Extragalactic Group, starting Sep 2016)
Jul 2014	Commendation from external review panel assessing DIAS (including Prof. Andrew King and Prof. Jim Pringle): “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.”
Jan 2013	Astroparticle Physics, “One of the Most Valued Reviewers” Prize 2012
Aug 2012 - present	Schroedinger Fellowship, DIAS, Ireland
Jan 2011	Physics Letters B, “Most Valued Reviewer” Prize 2010
Jul 2009	IRCSET 3 year Postdoctoral Grant Awarded
Jun 2008	Institute of Physics “Best Thesis” Prize 2008
Dec 2006	University of Oxford Graduate Symposium Prize
Sep 1999 - Jun 2003	David Rowland Scholarship, Pembroke College, Oxford University, UK

TEACHING EXPERIENCE

Jan 2013 - Present	Co-supervisor of PhD Student Carlo Romoli DIAS, Dublin, Ireland
Jan 2014 - May 2014	Supervisor of Fourth Year Student Antanas Cesna DIAS, Dublin, Ireland
Mar 2014 - Apr 2014	Series of 4 Lectures on Astrophysics to Fourth Year Students Dublin City University, Ireland
Feb 2013 - Mar 2013	Series of 6 Lectures on Astrophysics to First Year Students Maynooth University, Dublin, Ireland
Mar 2012	Series of 2 Lectures on Extragalactic Cosmic Rays Ultra High Energy Cosmic Rays Workshop, Sao Carlos, Brazil
Jul 2011	Series of 2 Lectures on the Origin and Extragalactic Cosmic Rays High Energy Astrophysics Summer School, Dublin, Ireland
Aug 2010 - Aug 2012	Co-supervisor of PhD Student Celine Tchernin ISDC, University of Geneva, Switzerland
Aug 2008 - Sep 2008	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>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
<i>Feb 2015</i>	Cosmic Rays, Galactic Outflow, and Non-Thermal Emission GRAPPA Seminar, Amsterdam, Netherlands
<i>Jan 2015</i>	A Parameterisation of Gamma-Ray Production Cross-Sections for pp-Interactions in a Broad Energy Range SUGAR Workshop, Geneva, Switzerland
<i>Oct 2014</i>	A Galactic Halo Origin for the Diffuse Neutrino Flux Detected by IceCube GSSI Workshop, L'Aquila, Italy
<i>Oct 2014</i>	TA vs Auger and the Physics of UHECR GSSI Workshop, L'Aquila, Italy
<i>Sep 2014</i>	A Galactic Halo Origin for the Diffuse Neutrino Flux Detected by IceCube NOW 2014, Otranto, Italy
<i>Aug 2014</i>	Multi-Messenger Aspects: Composition, Propagation & Acceleration ISVHECRI14, Geneva, Switzerland
<i>Aug 2014</i>	A Galactic Halo Origin for the Diffuse Neutrino Flux Detected by IceCube VHEPU, Quy Nhon, Vietnam
<i>Apr 2014</i>	Galactic Cosmic Rays DCU, Dublin, Ireland
<i>Nov 2013</i>	Probing UHECR with Photons MACROS Workshop, Paris, France
<i>Sep 2013</i>	Galactic Cosmic Rays 14th ICATPP, Como, Italy
<i>Dec 2012</i>	Galactic Cosmic Rays TEVPA Meeting, Mumbai, India
<i>Nov 2012</i>	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, LibreOffice, Office, html

INTERESTS

Environmental conservation, ecology, bushcraft