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## Prof. Ofer Lahav: Curriculum Vitae

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### Current position

- Perren Chair of Astronomy, Department of Physics & Astronomy, UCL

### Other current roles

- Chair of the UK consortium of the Dark Energy Survey (DES) and Chair of the DES Advisory Board
  - Principal Investigator of a European Research Council (ERC) Advanced Grant 'TESTDE'
  - Member of the Science Board, Science and Technology Facilities Council (STFC)
  - Co-Director, STFC-supported Centre for Doctoral Training (CDT) in Data Intensive Science, UCL
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**Date and Place of Birth:** 5 April 1959; Tiberias, Israel

**Citizenship:** Israeli and British

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### Education

University of Cambridge: Astronomy Ph.D., 1988

(Supervisors: Prof. G. Efstathiou and Prof. D. Lynden-Bell)

Ben-Gurion University: Physics M.Sc., 1985

(Supervisor: Prof. J. Bekenstein)

Tel-Aviv University: Physics B.Sc., 1980

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### Positions

2004- Perren Professor of Astronomy, UCL

2011-2015 Vice-Dean for Research, Faculty of Mathematical and Physical Sciences, UCL

2004-2011 Head of Astrophysics, Physics & Astronomy Department, UCL

2000-2003 Reader in Cosmology, Institute of Astronomy, Cambridge University

1998-1999 *on leave as* Associate Professor, the Hebrew University, Jerusalem

1990-2000 Member of staff, Institute of Astronomy, Cambridge University  
(Senior Assistant in Research, Assistant Director of Research, Lecturer)

1989 Post-doctoral Fellow, Institute for Advanced Study, Princeton

1988-2003 Research Fellow (1988-91) and then Official Fellow (1992-2003),  
St Catharine's College, Cambridge

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### Visiting positions

Munich LMU (2011), Weizmann Institute of Science (2009,2013-), Fermilab/Chicago (2008), Sydney (1997), Jerusalem (1990, 1995), Kyoto (1991), University of Kent (2012-)

## **Awards and Distinctions**

Royal Astronomical Society Award: Gerald Whitrow Lecture (2014)  
Visiting Professorship, Weizmann Institute of Science (2013-)  
Visiting Professorship, University of Kent (2012-)  
European Research Council Advanced Grant (2012-2018)  
Royal Society Leverhulme Senior Research Fellowship (2011-2012)  
Vice-President of the Royal Astronomical Society (2010-12)  
Wempe Lecture (on the occasion of the Wempe Award to Y. Hoffman), Potsdam (2010)  
Erna & Jakob Michael Visiting Professorship, Weizmann Institute of Science (2009)  
Royal Society Wolfson Research Merit Award (2008-2013)  
Elected Fellow of the Institute of Physics (2008- )  
Royal Astronomical Society Group Award to the 2dFGRS team (2008)  
Thomson ISI 'highly cited author' (2007-)  
Rosseland Lecture, Oslo University (2005)  
Elizabeth Spreadbury Lecture, UCL (2004)  
PPARC Senior Research Fellowship (2003-2006)  
Isaac Newton Studentship, Cambridge (1985-1988)  
Rothschild Fellowship (1985-1986)  
First prize, annual science competition, Weizmann Institute of Science (1977)

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## **Research and Publications**

Over 230 research articles in refereed journals, including 8 invited review articles and book chapters. Thomson ISI 'highly cited author', *h*-factor 71.

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## **Recent and current collaborations**

- The Dark Energy Survey (DES):  
PI of STFC grant for DES optics, Chair of DES:UK (including scientists from UCL, Cambridge, Edinburgh, Portsmouth, Sussex, Nottingham and Manchester Universities) and co-chair of the international DES science committee (2006-2016), coordinating over 500 scientists from the US, UK, Spain, Brazil, Germany, Switzerland and Australia in 13 working groups. Currently Chair of the DES Advisory Board.
  - Dark Energy Spectroscopic Instrument (DESI)  
Member of the Executive Committee and previously co-chair of the Publication Board
  - Large Synoptic Survey Telescope (LSST) Dark Energy Collaboration  
Co-chair of the Photometric Redshift Working Group
  - Euclid ESA space mission
  - Hubble Space Telescope CLASH Multi-Cycle Treasury (completed)
  - 2dF Galaxy Redshift Survey (completed)
  - 6dF Galaxy Survey (completed)
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## **Principal Investigator of current and recent major grants**

STFC-supported Centre for Doctoral Training (CDT) in Data Intensive Science, UCL: £1.3M (co-PI)  
European Research Council Advanced Grant (2012-2018): 2.4M Euro  
UCL Astrophysics STFC Consolidated Grant with 19 Col's (2011-2014): £1.8M  
Royal Society Leverhulme Senior Research Fellowship (2011-2012): £46K  
STFC DESpec R&D (2011-): £141K  
STFC 'Cosmology from surveys', UCL (2011): £468K

Leverhulme grant for an Artist in Residence (Katie Paterson) at UCL (2010): £12.5K  
STFC 'Cosmology rolling grant', UCL (2008-2011): £839K  
Royal Society Wolfson Research Merit Award (2008-2013): £100K  
UCL CIF for a Robotic Telescope at the Mill Hill Observatory (2008): £30K  
PPARC/STFC 'Optical Corrector for the Dark Energy Survey', UCL (2006- ): £1.763M  
PPARC/STFC 'Cosmology with Photometric Redshift Surveys', UCL (2006-2009): £186K  
PPARC Senior Research Fellowship (2003-2006): £111K  
Leverhulme 'Quantitative Cosmology', Cambridge (2001-2004): £275K

### **Co-Investigator of current and recent major grants**

UCL Astrophysics Consolidated grant (2015-2018, £2.78M, with 11 other co-Is)  
DESI:UK STFC grant £2.3M  
Euclid:UK UKSA (£364K, 2009; £303K, 2010), Euclid:UCL (£545K; 2012-2015), Euclid:UCL (£654K; 2016-2019)

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### **Mentoring**

Over the years supervised (as primary supervisor) 18 PhD students and 11 MSc students in Cambridge and in UCL.  
In the academic year 2015-2016 mentored 7 Post-docs, 3 PhD students and 2 MSc students.

### **Editorial and refereeing**

Member of the Editorial Boards of *Monthly Notices of the Royal Astronomical Society* (2006-2008) and *Journal of Cosmology and Astro-particle Physics* (2005- )  
Refereeing for MNRAS, ApJ, A&A, JCAP and for STFC and ERC grant proposals.

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### **Organisation (since 2004): national and international**

Chair of the DES Advisory Board (2016-)  
Member of the STFC Science Board (2016-)  
Vice-President of the Royal Astronomical Society (2010-2012)  
Member of the Council of the Royal Astronomical Society (2009-2012)  
Chair of the International Committee of the Royal Astronomical Society (2010-2011)  
Chair of the Awards Committee of the Royal Astronomical Society (2011)  
Member of the Post-doctoral Fellowships panel, the Royal Astronomical Society (2012, 2013)  
Member of appointment committee for Lectureships P&A/UCL (2012)  
Member of appointment committee for a Lectureship, MSSL/UCL (2013)  
Member of appointment committee for Chairs, JM Liverpool (2012)  
Member of appointment committee for a Chair, Imperial College (2011)  
Member of ESO Observing Programme Panel (2014, 2015)  
Member of visiting Committee, IFAE, Barcelona (2009-2011)  
Member of the STFC Planck Oversight Committee (2008- )  
Chair of the DES Membership Policy Document (2008-9)  
Member of appointment committee, Lisbon (2008)  
Member of evaluation committee, DFG, Germany (2007)  
Member of IAU Commission 47 (Cosmology), Division VIII (2007-)

Chair (previously co-Chair), Science Committee of the Dark Energy Survey (DES) (2006-2016)  
Chair of DES:UK Consortium (2005-)  
Co-Chair of the Search Committee for DES Director (2009)  
Chair of the DES Membership Policy (2007-8)  
Member of the international DESI Executive Committee (2013-) and co-chair of Publication Board

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### **Organisation (since 2004): UCL**

Co-Director, STFC-supported Centre for Doctoral Training (CDT) in Data Intensive Science, UCL (2017-)  
Head of the Astrophysics Group 2004-2011 (overseeing 20 faculty, 20 post-docs, 35 PhDs, 13 support staff).  
Led as the Head of Astrophysics the appointment of 10 new members of staff.  
Vice-Dean for Research, Faculty for Mathematical and Physical Sciences 2011-2015 (coordinating research in 8 Departments, including preparations for REF2014).  
Served as member of half a dozen selection committees for faculty appointments at UCL, including for two Chairs.  
Co-founder and member of the steering committee (and since 2012 chairing it as Vice-Dean), UCL's Institute of Origins, and co-coordinator of the neutrino physics theme.

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### **Invited plenary talks at International Conferences (since 2004, partial list)**

*CosKASI Symposium*, South Korea (April 2017)  
*Padmanabhan@60*, Pune, India (March 2017)  
*Kavli Symposium*, Oslo (September 2016)  
*Bekenstein's memorial event*, The Israeli Academy (July 2016)  
*Neutrino2016*, London (July 2016)  
*NAM2016, surveys session*, Nottingham (June 2016)  
*Cosmology with Maps*, RAS, opening talk, RAS Discussion Meeting (February 2016)  
*Alan Turing Institute summit on Big Data in the Physical Sciences*, chairing a panel discussion (January 2016)  
*Euclid:UK, Edinburgh* (December 2015)  
*Cosmology and First Light*, Paris (December 2015)  
*George Efstathiou @ 60*, Cambridge (September 2015)  
*High Energy Physics European Physics Society meeting, Vienna* (July 2015)  
*Large Scale Structure, Munich* (July 2015)  
*The Cosmic Web, Aix En Provence* (July 2015; chairing a panel discussion)  
*Beyond LCDM, Oslo* (January 2015)  
*Cosmology, Cape Town* (November 2014)  
*Cosmology, Heidelberg* (October 2014)  
*Philosophy of Cosmology, Tenerife* (September 2014)  
*Mathematical Methods in the Physical Sciences, Madrid* (August 2014)  
*Unsolved Problems in Astrophysics, Budapest* (June 2014)  
*NAM2014, Portsmouth* (June 2014)  
*Research Festival, University of Kent* (May 2014)  
*Cosmology school, Natal, Brazil* (May 2014)  
*Galaxy surveys, Durham* (April 2014)  
*HST conference, Rome* (March 2014)  
*Cosmo13, Cambridge* (September 2013)

*Science with DESI*, LBL (Berkeley) USA (July 2013)  
*Cosmic Probes Conference*, Lausanne, Switzerland (July 2013)  
*Cosmology Conference*, Sao Paulo, Brazil (February 2013)  
*ICIC Inaugural Conference*, Imperial College (August 2012)  
*Cosmo-bias*, Marseilles (May 2012)  
*The Quantum Universe*, Groningen (April 2012)  
*Avishai Dekel's 60<sup>th</sup> birthday conference*, Jerusalem (December 2011)  
*Bulk Flows*, Technion, Haifa (December 2011)  
*Dark Matter*, Heidelberg (October 2011)  
*Future Perspectives in High-Energy Physics*, ICFA, CERN (October 2011)  
*Euclid collaboration meeting*, Bologna (September 2011)  
*Dark Matter*, Space Telescope Science Institute (May 2011)  
*StatPhys11*, CERN (January 2011)  
*Wempe Lecture*, IAP, Potsdam (November 2010)  
*Co-motion*, Australia (September 2010, by video-con)  
*Darkness Visible*, Cambridge (August 2010)  
*The Cosmic Enigma* (Weizmann:UK) (June 2010)  
*Cosmology conference*, Ioannina (June 2010)  
*Galaxy Surveys*, Marseilles (April 2010)  
*Tsvi Piran's 60<sup>th</sup> birthday conference*, Jerusalem (December 2009)  
*CosmoStat09*, Ascona (July 2009)  
*Dark Energy*, IPMU Tokyo (June 2009)  
 Chairing a panel discussion at the *National Astronomy Meeting* in Hertfordshire (April 2009)  
*Neutrinos*, Minnesota (October 2008)  
*SDSS conference*, Chicago (August 2008)  
*Neutrino masses*, Aarhus (September 2007)  
*Michael Rowan-Robinson 65<sup>th</sup> birthday*, Imperial College (July 2007)  
*Cosmology conference*, Imperial College (March 2007)  
*Cosmology conference*, Tokyo University (November 2006)  
*Annual meeting of the Astronomical Society of Brazil* (July 2006)  
*Bernard Jones 60<sup>th</sup> birthday*, Valencia (June 2006)  
 Summary talk, *Statistical Challenges in Modern Astronomy IV*, Penn State University (June 2006)  
 Inaugural lecture, UCL (February 2006)  
*Nearly normal galaxies in a CDM Universe*, celebrating the 60<sup>th</sup> birthday of Blumenthal, Faber and Primack, Santa Cruz (August 2005)  
*Solvay Conference*, Brussels (May 2005)  
*6dF workshop*, Sydney, Australia (April 2005)  
*NAM05* Birmingham (April 2005)  
*Surveying the Sky*, Obergurgl, Austria (February 2005)  
*Rome L'Aquila ISAPP School* (July 2004)  
*Neutrinos 04*, CdF Paris (June 2004)  
*Nearby LSS and the Zone of Avoidance*, Cape Town (March 2004)

In addition, about 4-5 seminars/colloquia per year at Astronomy/Physics Departments) and 3-5 Public Outreach talks in the UK and abroad.

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### **Organisation of International Conferences (partial list)**

Co-organiser, *NAM2016 DES session*, Nottingham (June 2016)  
 LOC/SOC member, French-UCL '*Mapping the Cosmic Web*', London (June 2016)

LOC/SOC member, *Accurate Astrophysics, Correct Cosmology, London (July 2015)*  
SOC member, *Astro-statistics*, London (December 2014)  
LOC chair, *CLASH meeting*, London (September 2013)  
SOC Member, *Galaxy Formation*, Marseilles (July 2013)  
Co-organiser, *Astro-statistics*, BIRS, Banff (March 2013)  
Main Organiser, DESpec workshop, London, (March 2011)  
SOC member, *Darkness Visible*, Cambridge (August 2010)  
Main Organiser of the Cosmic Enigma Weizmann: UK conference, London (June 2010)  
The DES international collaboration meeting, UCL (2007)  
Colloquium Director of UCL's Cumberland Lodge conference (2005)  
London Cosmology Discussion Meetings (LCDM) (since 2004)  
SOC member, *Nearby LSS and the ZoA*, Cape Town (March 2004)  
Oxford-Cambridge (OxCam) Cosmology meetings (2000-2003)  
Royal Astronomical Society Discussion meetings, London (1993, 1995, 2001, 2003, 2005)  
Cosmology sessions at NAM96 (Liverpool), NAM01 (Cambridge), NAM09 (Hertfordshire)  
The 36th Herstmonceux conference, 'Gravitational Dynamics', Cambridge (August 1995)

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### **Learned Societies**

Fellow of the Royal Astronomical Society (FRAS)  
Fellow of the Institute of Physics (FInstP)  
Member of the International Astronomical Union  
Member of the Astronomical Society of India

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### **Public Outreach (since 2006, partial list)**

- Talk to SEPNET PhD students, U. Kent (Jan 2016)
- Q&A after the screening of the Star\*Men film (Bloomsbury Nov 2015, Kent U. Feb 2016)
- Featured in the DES movie (released 2015)
- Episode in 'Science is Everything', The Guardian on-line (July 2015)
- Panel Discussion in 'Your Universe', UCL (March 2015)
- Live interview on Al-Jazeera TV news in Arabic (December 2013)
- Interviewed on The Today Programme BBC Radio 4 (September 2013)
- STFC Press Release on the DES first season of observations (September 2013)
- Talk at 'Wonderments of the Cosmos', cross-departmental science & humanities, UCL (June 2013)
- Public Lecture at the Royal Institution (June 2013)
- Interview on ITV about the ELT (February 2013)
- Live interview on Al-Jazeera TV news (English) about asteroids (February 2013)
- Lecture at King's School Canterbury (January 2013)
- Lecture to Jewish Rabbis, Mill Hill Observatory (January 2013)
- STFC Press Release on the DES First Light and coverage in national press (September 2012)
- Interviewed by The Economist (article and video online, February 2012)
- Public Lecture IoP Sheffield
- Interviewed on The Today Programme BBC Radio 4 (radio and BBC online, October 2011)
- Public lecture to UCL Alumni and AstroClub, Tel Aviv University (December 2011)

- Awarded a grant from the Leverhulme Trust to host Artist in Residence Katie Paterson (2011)
- Speaker at a joint event UCL-French Embassy (June 2011)
- Lecture to the Oxford Physics Society (May 2011)
- RAS lunch-hour public lecture (April 2011)
- After-dinner talk to the Physical Society Dining Club, IoP, London (February 2011)
- Lecture to the IoP South-East branch and the S-E Kent Astronomical Society (February 2011)
- Public Lecture at Ben-Gurion University, Israel (December 2010)
- Lunch-hour lecture open to all at UCL (November 2010)
- Lecture at the Institute of Physics London (October 2010)
- Press release on neutrino mass and reports on BBC online and other websites (June 2010)
- Lecture at the Whitstable Art Festival (summer 2010)
- Public Lecture at Tel-Aviv University, Israel (December 2009)
- Guardian Science Weekly Podcast (November 2009)
- Lecture at Tate Britain (March 2009)
- Press release on the galaxy map from the 2MASS redshift Survey (2008)
- Press release on the DES huge lenses (June 2008)
- Interviewed live on The Today Programme BBC Radio 4 (October 2008)
- Hosted a visit at the University of London Observatory by the actor Simon Russell Beale who played Galileo at the National Theatre (2007)
- Featured in *the Book of Space* of the Observer Magazine (2007)
- Press release on 3D galaxy map of Luminous Red Galaxies and interview on Radio 4 (2006)