

Professor Catherine Heymans

Institute for Astronomy,
University of Edinburgh,
The Royal Observatory, Blackford Hill,
Edinburgh, EH9 3HJ, UK.

Telephone: +44 131 668 8301
E-mail: heymans@roe.ac.uk
Website: www.roe.ac.uk/~heymans
Nationality: British

Research Career

- 2016-date **Professor of Observational Cosmology**, University of Edinburgh, UK.
- 2015-date **European Research Council Consolidator** Grant PI, University of Edinburgh.
- 2013-2016 Reader, Institute for Astronomy, University of Edinburgh, UK.
- 2011-2013 Lecturer, University of Edinburgh, UK, including 6 months maternity leave.
- 2010-2015 **European Research Council Starting** Grant PI, University of Edinburgh.
- 2008-2011 Senior Advanced Fellowship, University of Edinburgh, including 6 months maternity leave
- 2007-2008 Marie Curie Outgoing International Fellowship, University of British Columbia, Canada, and the Institut d'Astrophysique de Paris, France.
- 2005-2007 CITA National Fellowship, Canada, including 6 months maternity leave.
- 2003-2005 Postdoctoral fellowship, Max-Planck-Institut fur Astronomie, Germany.
- 2000-2003 **Astrophysics DPhil**, University of Oxford, UK.
Weak Gravitational Lensing and Intrinsic Alignments.
- 1996-2000 Masters in Physics with 1st class honours in Astrophysics. University of Edinburgh, UK.

Professional Skills

- ☀ Co-lead of the European Southern Observatory Kilo Degree Survey analysis team (KiDS).
- ☀ Co-PI of the CFHTLenS survey; PI of the Shear TEsting Programme (STEP).
- ☀ *STFC* Peer Projects Review Panel (2015, core member 2016-2018) and *STFC* Rutherford Fellowship selection panel (2015)
- ☀ Robert Cormack Bequest Committee of the Royal Society of Edinburgh (2016-2019). *Young Academy of Scotland* (2011-2016)
- ☀ *European Southern Observatory* Observing Programmes Committee; Panel Chair (P99-102) and Panel Member (P87/P88).
- ☀ *NSF/DoE* LSST Core Data Processing Software Review Panel 2013. *NASA* Euclid 2010 Review Panel. *Hubble Space Telescope* Extragalactic Panel Member, Cycle 17 Time Allocation Committee.
- ☀ *Science Organising Committees*: "Testing Gravity", Aspen, US, 2016. "Diving in the Dark", Cairns Australia 2016. Lorentz Workshop; "Extracting Information from Weak Lensing". GREAT3 mid-challenge workshop, Edinburgh 2014, SUPA/Cormack Astronomy Meeting 2012, UK National Astronomy Meeting 2010 Parallel Session Organiser: The Dark Art of Dark Matter.
- ☀ Organiser and Instigator of the "Inspirational Astronomers at the Institute for Astronomy" seminar series on alternative career paths in Astronomy, (2010-2011)
- ☀ Referee of articles for *ApJ*, *MNRAS*, the *New Journal of Physics*, *Astroparticle Physics*, *PASP*.
- ☀ Selection committee for Chancellors Fellowship (2013), eight PDRA positions (2008-date) and *STFC* postgraduate studentships (2012-2015).
- ☀ Attended the Edinburgh Researcher Development Management course, an Effective Supervision course, and the professional development Research Councils School.

Prizes and Awards

- 2013 Chancellors Rising Star Award, University of Edinburgh
- 2010 Outstanding Young Astronomer Prize, Joint European National Astronomy Meeting 2010
- 2006 The Ernst Patzer Prize for outstanding research, Max-Planck-Institut fur Astronomie.
- 2003 UK Science Communicator's Award (PPARC and ESPRC). This award is given to a small number of postgraduate students who have made a significant contribution to making science more relevant and exciting for young people in the UK during their PhD.
- 2000 Emerson Memorial Prize for the most outstanding Masters student in Astrophysics.
- 1998-1999 Anglo-Australian Observatory summer research scholarship and a Cormack research scholarship from the Royal Society of Edinburgh.

Research Funding

- 2015-2020 PI award of a European Research Council Consolidators Grant : 2M£.
- 2015-2017 Co-PI of Marie Curie Incoming Fellowship funding: £130k
- 2014 Co-I of Lorentz Center funding for a weak lensing workshop: £10k
- 2012 Co-I of UK Space Agency Euclid Science Ground Segment Grant: 2M£
- 2012 Co-I of the Institute for Astronomy's STFC consolidated grant that supports Extragalactic Astronomy and Cosmology PDRAs at the institute: 3.5M£
- 2011 PI award of a Royal Society International Travel Grant: £3,800.
- 2010-2015 PI award of a European Research Council Starting Investigators Grant: 1M£.
- 2010-2011 PI award of a Roberts Fund grant: £3,000.
- 2009-2010 PI award of a Royal Society Research Grant: £15,000
- 2008 Co-I of the Institute for Astronomy's STFC rolling grant that supports Extragalactic Astronomy and Cosmology PDRAs at the institute: 3.5M£
- 2008 Co-I of GREAT08 Pascal Challenge Grant: £3,000
- 2007-2009 PI award of a three-year Marie Curie fellowship: £200k
- 2005-2008 One of two EU Co-Is on the ADEPT NASA JDEM program, funded for the design and development stage of the mission concept: 1M£

Teaching Experience

- 2014-date Introductory Astrophysics: Course Organiser (2014-15), developer and primary lecturer
- 2014-date AstroTech MOOC: course developer and lecturer over 30,000 online students.
- 2010-date PhD viva external examiner, St Andrews University, UK, Université de Provence, France, Universiteit Leiden, Netherlands, University of Manchester, UK, University of Birmingham, UK.
- 2008-2011 Research Methods in Physics teaching team, a new course we designed to develop research skills. First year nuclear astrophysics lectures and MPhys Advanced Cosmology lectures for SUPA.
- 2005-date Postgraduate and undergraduate supervision of research projects:
 - University of Edinburgh PhD:* V. Demchenko, B. Giblin, A.Amon, M. Asgari (2015), E. Eardley (2015), L. Koen (2014), C. Duncan (2014), E. Grocutt (2012),
 - University of Edinburgh MPhys:* N. Robertson (2014), D. McKean (2013), E. Allthorpe Mullis (2009),
 - Summer Research Projects:* S. Brown (Cormack Undergraduate Vacation Scholarship 2010) , N. Robertson (School of Physics and Astronomy Research Bursary 2013)
 - University of British Columbia:* J. Benjamin (Masters 2008), M. Milkeraitis (PhD 2010), S. Vafaei (PhD 2011), W. Ngan (Undergraduate 2008)
- 2005-2008 Part-time postdoctoral teaching fellow, University of British Columbia; undergraduate Introductory Physics and a Masters course on Gravitational Lensing.
- 2003 Astronomy Tutor and Mathematics Tutor, St Catherine's College, Oxford.

Observational Experience

- ☀ Co-I allocation of 53 nights on the AAT over three semesters (for the 2dFLenS survey).
- ☀ Co-PI allocation of 48 nights on the INT over four semesters (MeNeACS clusters).
- ☀ Co-I in the analysis of over 1000 orbits of HST data (GEMS, STAGES, COSMOS and ACSPAR).
- ☀ Fifteen nights observing at the Isaac Newton Telescope, INT, using the Wide Field Camera.
- ☀ Seven nights observing at the Anglo Australian Telescope, AAT, using the Two Degree Field system. Acquisition of spectra for the 2dF redshift survey with real time spectral classification.

Science Communication and Public Engagement

- 2016 *“Other Worlds”*: A panel debate at the *How The Light Gets In* festival of Philosophy and Art hosted by the Institute of Art and Ideas.
“A journey through the expanding Universe”: Stand-up science and comedy event to promote the UK joining LSST, Oxford UK.
“The Dark side of the Universe” recorded at an evening talk at the Aspen Center for Physics and broadcast on Grassroots TV, Aspen, CO, USA.
- 2015 *“Are we darkened by light?”* at the Tate Modern: A talk followed by a panel discussion between scientists, architects and artists as part of the *Light and Dark Matters* series.
Science Stories at the Winchester Planetarium: two talks for the Winchester Science Centre entitled: *The Dark side of the Universe*
The Big Bang and Beyond: Institute of Physics Annual Physics Teachers Convention, UK
- 2014 *Physics to Blow your Mind*. Sold-out talk for the International Science Festival,
The Dark Universe: TED-x talk with over 8000 online views.
The Universe: Opening keynote talk for the Grantham Gravity Science Festival, and schools gravity workshop.
What is the nature of the Dark Universe: an invited comment article for the 25th Anniversary edition of Physics World magazine.
- 2013 *Science Now Series 1: Dark Matters*. Online Seminar for UK Science Teachers in collaboration with the Centre for Science Education, Sheffield Hallam University.
Observing the Dark Universe: Sold-out Public Talk at the Ideas Festival in Bristol. Interviews at the National Astronomy Meeting for the Jodcast, Naked Astronomy Podcast, and BBC Radio Cambridgeshire Naked Scientists.
- 2012 *Through a lens darkly: Astronomers reach new frontiers of Dark Matter*. A press conference at the AAS, Radio Interviews for BBC Radio 4 Material World and BBC World Service, Science in Action. Interviews published in Discovery Magazine, New Scientist, BBC News Online, Fox News, Washington Post, Sunday Times, Telegraph, Metro, Daily Mail, Die Welt, Earth and Sky Magazine, University of Edinburgh Edit Alumni Magazine.
University of Edinburgh’s Maxwell Lecture: The Dark Universe. Public lecture for the annual “Science on Summers Evening”. Public lecture during the first Innovative Learning Week.
- 2011-2014 Institute of Astronomy Co-ordinator for the Royal Observatory Open Doors Day.
- 2011 Development of web resources to encourage girls to take physics A-levels/Highers in collaboration with the Centre for Science Education, Sheffield Hallam University.
- 2010 *Big Telescopes, Big Questions*; a live web conference to Scottish secondary schools.
- 2009 *She’s an Astronomer: A typical day*. A short film for BCC news.
- 2008 *The violent lives of galaxies caught in the cosmic dark matter web*. A press conference at the AAS, CBC Quirks and Quarks Radio show, a public lecture for the RASC, the Royal Observatory Public Talks and the Dundee Astronomical Society. Interviews for Starlight Magazine, Talk 107 FM, the Jodcast and the IoP Careers Guide.
- 2007 Science World XX Evening. Panel member for the UBC Welcome Women Event.
- 2006 Interview for the the Brightside Trust, a charity that supports young people with no history of higher education in their family to get into University.
- 2005 *Probing Dark Matter and Dark Energy with Weak Gravitational Lensing*. A public lecture for the Royal Astronomical Society of Canada (RASC).

Invited Conference, Seminars and Advanced Schools.

2016 *Weak Gravitational Lensing by Large-Scale Structure aka "Cosmic Shear"*

Invited Review at A Century of Gravitational Lensing: from Theory to Applications, Leiden, NL.

The Kilo-Degree Survey vs Planck: Cracks in the Cosmic egg?

Astronomy seminar: Cardiff University, UK

Cosmology and Large-Scale Structure

Invited Lecture at the STFC Summer School, UK

2015 *Science Highlights from the Kilo-Degree Survey*

Astronomy seminar: Portsmouth University, UK

2014 *Observing the Dark Side*

Invited plenary at COSMOS 2014, Chicago, USA

Invited keynote talk at the Heidelberg Joint Astronomy Colloquia Summer series, Germany

Physics General Interest Seminar: Birmingham University UK

Astronomy seminar: Queens University, Belfast, UK

Relativity and Cosmology seminar: Queen Mary University of London, UK

Astrophysics Seminar: Mullard Space Science Laboratory, UCL, UK

Online Learning and Innovative teaching with MOOCs

Invited keynote talk Frontiers in Science Education, Aarhus University, Denmark

Tales from the Dark Side of the Universe: science leadership skills

Invited keynote talk WISE2014: Showcasing women in science and engineering

2nd Azores International School on Observational Cosmology

Graduate School Lecturer: Gravitational Lensing, Portugal

2013 *Weak Gravitational Lensing*

Invited plenary at the National Astronomy Meeting 2013, St Andrews University, UK.

Invited review at "Tales of Lambda" Conference, Nottingham University, UK.

Invited review at "LSST@Europe" Conference, Cambridge University, UK.

Invited plenary review at "Mining the cosmic Frontier in the Planck Era", UC Davis, USA. (declined - maternity leave)

Invited talk at "Weak Gravitational Lensing - beyond the ordinary", Maison du Seminaire, Nice, France. (declined - maternity leave)

Astronomy colloquium: Sussex University, UK

2012 *The Dark Universe: a view from CFHTLenS*

Physics General Interest seminar, University of Bristol, UK.

Astrophysics Bi-Annual International Colloquium: Princeton University, USA.

Cosmology Seminar: University of Pennsylvania, USA.

Invited talk at CosmoBias - International Meeting on Physical Bias in Cosmology, Laboratoire de Marseilles, Marseilles, France. (declined)

Mastering your Elevator Pitch

Invited talk at Future Science Leadership Seminars at the University of Oxford, UK.

2011 *The CFHTLenS view of Dark Matter in Clusters and Groups*

Invited talk at Dark Matter in Clusters Workshop, Nottingham, UK.

Weak Lensing and Dark Matter

Invited review talk at HST May Symposium, Baltimore, USA. (declined)

Charting the Dark Universe with CFHTLenS

Astronomy Seminar, University of Nottingham, UK.

Physics Seminar, University of Portsmouth, UK.

2010 *Charting the Dark Universe*

Invited plenary talk at JENAM, 'Highlight talk by young outstanding astronomer', Lisbon, Portugal.

Recent progress from the CFHTLenS survey

Invited talk at "The Observational Pursuit of Dark Energy after Astro2010": Caltech, CA, USA.

What Gravitational Lensing tells us

Invited talk at Darkness Visible: Dark Matter in Astrophysics and Particle Physics, Institute of Astronomy, Cambridge, UK.

Charting the Large Scale Structure of the Universe with Weak Gravitational Lensing

Astrophysics Seminar, University College London, UK.

Astrophysics Research Institute Seminar, Liverpool John Moores University, UK.

Astrophysics Seminar, University of Oxford, UK.

Physics and Astronomy Seminar, University of Birmingham, UK.

Theoretical Astrophysics Seminar, University of Leicester, UK.

2009 *DUEL Cosmology and Lensing Summer School Practical Week 2.*

Institut d'Astrophysique de Paris, France

This was a 5 day practical course for graduate students lead by Thomas Erben and myself to reduce and analyse real astronomical data and use lensing techniques to map dark matter.

Cosmology on the Beach, Winter Graduate School

Invitation to be one of 5 course lecturers at this well known graduate school in Mexico organised by Berkley University, USA. (declined maternity leave)

2008 *IPM International Advanced School on Weak Gravitational Lensing Techniques.*

Institute for studies in Theoretical Physics and Mathematics (IPM), Tehran, Iran.

This was a 6 day practical course for graduate students. I designed the course structure, gave the lectures and planned and carried out the practical sessions to analyse real astronomical data using lensing techniques to map dark matter.

The violent lives of galaxies caught in the cosmic dark matter web

Jodrell Bank Centre for Astrophysics Colloquium, University of Manchester, UK

Astrophysics Colloquium, Imperial College London, UK.

Fundamental limitations of weak lensing cosmology

Cosmology Seminar, Oxford University, UK.

Departmental Colloquium, Durham University, UK.

2007 *Mass, gas and galaxies in the Abell 901/902 supercluster.*
Physics Colloquium, Lawrence Berkeley National Lab, Berkeley, USA
Extragalactic Series, Space Telescope Science Institute, Baltimore, USA.
Herzberg Institute of Astrophysics seminar series, Victoria, Canada.

Understanding Dark Matter and Dark Energy with weak gravitational lensing.
Cosmology Colloquium, Simon Fraser University, Canada. (2007)

2006 *Are there any show-stoppers for measuring high precision cosmology with weak lensing?*
Astronomy Seminar, Caltech, USA.

2005 *STEPS towards high precision cosmology with weak gravitational lensing*
Cosmology Seminar, University of California, Berkeley, USA.
Herzberg Institute of Astrophysics seminar series, Victoria, Canada,

2004 *Dark matter maps and cosmology with HST: a cosmic shear analysis of GEMS*
Institute of Astronomy seminar, Edinburgh University, UK.

Bibliography

I have authored a total of **104 refereed papers** in international peer-reviewed journals with a **combined total of over 8500 citations** (average 80 citations per paper). 30 of these papers are “very well known papers” with over 100 citations in total. I am the **first author of 10 journal papers**, nine of which are “well known papers” with over 50 citations in total. I am the co-lead author of an additional 7 journal papers, 2 of which are first authored by my Masters/PhD students. **I have a Hirsch index of 50.** These statistics are taken from the SAO/NASA Astrophysics Data System.

Refereed Papers in Primary Journals

1. *CFHTLenS and RCSLenS Cross-correlation with Planck Lensing Detected in Fourier and Configuration Space*
Harnois-Deraps, J., Troster, T., Hojjati, A., Van-Waerbeke, L., Asgari, M., Choi, A., Erben, T., **Heymans, C.**, Hildebrandt, H., Kitching, T., Nakajima, R., Viola, Arnouts, S., Coupon, J., Moutard, T., MNRAS 2016, 460, 434.
2. *The stellar-to-halo mass relation from 100 square degrees of KiDS weak lensing data*
van Uitert, E., Cacciato, M., Hoekstra, H., Brouwer, M., Sifon, C., Viola, M., Baldry, I., Bland-Hawthorn, J., Brough, S., Brown, M., Choi, A., Driver, S., Erben, T., **Heymans, C.**, Hildebrandt, H., Joachimi, B., Kuijken, K., Liske, J., Loveday, J., McFarland, J., Miller, L., Nakajima, R., Peacock, J., Radovich, M., Robotham, A., Schneider, P., Sikkema, G., Taylor, E., Verdoes Klijn, MNRAS 2016, 459, 3251.
3. *Accurate halo-model matter power spectra with dark energy, massive neutrinos and modified gravity forces*
Mead, A., **Heymans, C.**, Lonbriser, L, Peacock, J., Steele, O., Winther, H., MNRAS 2016, 459, 1469
4. *Cluster mass profile reconstruction with size and flux magnification on the HST STAGES survey*
Duncan, C., **Heymans, C.**, Joachim, B., Heavens, A., MNRAS 2016, 457, 764.

5. *RCSLenS: Testing gravitational physics through the cross-correlation of weak lensing and large-scale structure*
Blake, C., Joudaki, S., **Heymans, C.**, Choi, A., Erben, T., Harnois-Deraps, J., Hildebrandt, H., Joachimi, B., Nakajima, R., van Waerbeke, L., Viola, M., MNRAS 2016, 456, 2806.
6. *RCSLenS: A new estimator for large-scale galaxy-matter correlations*
Buddendiek, A., Schneider, P., Hildebrandt, H., Blake, C., Choi, A., Erben, T., **Heymans, C.**, Viola, M., Nakajima, R., Harnois-Deraps, J., MNRAS 2016, 456, 3886.
7. *Galaxy and Mass Assembly (GAMA) Redshift Space Distortions from the Clipped Galaxy Field*
Simpson, F., Blake, C., Peacock, J., A. Baldry, I., Bland-Hawthorn, J., Heavens, A., **Heymans, C.**, Loveday, J., Norberg, P., PhysRevD, 93, 3525.
8. *Enhancing the Cosmic Shear Power Spectrum*
Simpson, F., Harnois-Déraps, J., **Heymans, C.**, Jimenez, R., Verde, L., MNRAS 2016, 456, 278.
9. *Viewpoint: Sky Survey Casts Light on the Dark Universe*
Heymans, C., 2015, APS, Physics, 8, 74.
10. *An accurate halo model for fitting non-linear cosmological power spectra and baryonic feedback models*
Mead, A., Peacock, J. **Heymans, C.**, Joudaki, S., Heavens, A., MNRAS 2015, 454, 1958.
11. *Testing Gravity with EG: mapping theory onto observations*
Leonard, C., D., Ferreira, P., **Heymans, C.**, JCAP 2015, 12, 051L.
12. *Gravitational Lensing Analysis of the Kilo Degree Survey*
Kuijken, K., **Heymans, C.**, Hildebrandt, H., Nakajima, R., Erben, T., de Jong, J., Viola, M., Choi, A., Hoekstra, H., Miller, L., van Uitert, E., Amon, A., Blake, C., Brouwer, M., Buddendiek, A., Fenech Conti, I., Eriksen, M., Grado, A., Harnois-Déraps, J., Helmich, E., Herbonnet, R., Irisarri, N., Kitching, T., Klaes, D., Labarbera, F., Napolitano, N., Radovich, M., Schneider, P., Sifón, C., Sikkema, G., Simon, P., Tudorica, A., Valentijn, E., Verdoes Kleijn, G., van Waerbeke, L., MNRAS 2015, 454, 3500.
13. *The masses of satellites in GAMA galaxy groups from 100 square degrees of KiDS weak lensing data*
Sifón, C., Cacciato, M., Hoekstra, H., Brouwer, M., van Uitert, E., Viola, M., Baldry, I., Brough, S., Brown, M., Choi, A., Driver, S., P. Erben, T., Grado, A., **Heymans, C.**, Hildebrandt, H., Joachimi, B., de Jong, J., Kuijken, K., McFarland, J., Miller, L., Nakajima, R., Napolitano, N., Norberg, P., Robotham, A., Schneider, P., Verdoes Kleijn, G., 2015, MNRAS, 454, 3938
14. *Dark matter halo properties of GAMA galaxy groups from 100 square degrees of KiDS weak lensing data*
Viola, M. Cacciato, M. Brouwer, M. Kuijken, K. Hoekstra, H. Norberg, P. Robotham, A. S. G. van Uitert, E. Alpaslan, M. Baldry, I. K. Choi, A. de Jong, J. T. A. Driver, S. P. Erben, T. Grado, A. Graham, Alister W., **Heymans, C.**, Hildebrandt, H., Hopkins, A., Irisarri, N., Joachimi, B., Loveday, J., Miller, L., Nakajima, R., Schneider, P., Sifón, C., Verdoes Kleijn, G., 2015, MNRAS, 452, 3529.

15. *The first and second data releases of the Kilo-Degree Survey*

de Jong, J., Verdoes Kleijn, G., Boxhoorn, D., R. Buddelmeijer, H., Capaccioli, M., Getman, F., Grado, A., Helmich, E., Huang, Z., Irisarri, N., Kuijken, K., LaBarbera, F., McFarland, J., P. Napolitano, N., R. Radovich, M., Sikkema, G., Valentijn, E., Begeman, K., Brescia, M., Cavuoti, S., Choi, A., Cordes, O., Covone, G., Dall'Ora, M., Hildebrandt, H., Longo, G., Nakajima, R., Paolillo, M., Puddu, E., Rifatto, A., Tortora, C., van Uitert, E., Buddendiek, A., Harnois-Déraps, J., Erben, T., Eriksen, M., **Heymans, C.**, Hoekstra, H., Joachimi, B., Kitching, T., Klaes, D., Koopmans, L., Köhlinger, F., Roy, N., Sifon, C., Schneider, P., Sutherland, W., Viola, M., Vriend, W., *A&A* 2015, 528A, 62D

16. *CFHTLenS: Weak lensing constraints on the ellipticity of galaxy-scale matter haloes and the galaxy-halo misalignment*

Schrabback, T., Hilbert, S., Hoekstra, H., Simon, P., van Uitert, E., Erben, T., Hildebrandt, H., Kitching, T., Mellier, Y., Miller, L., Van Waerbeke, L., Bett, P., Coupon, J., Fu, L., Hudson, M., J. Joachimi, B., Kilbinger, M., Kuijken, K., *MNRAS* 2015, 454, 1432.

17. *First Measurement of the Cross-Correlation of CMB Lensing and Galaxy Lensing*

Hand, N., Leauthaud, A., Das, S., Sherwin, B., Addison, G., Bond, R., Calabrese, E., Charbonnier, A., Devline, M., Dunklet, J., Erben, T., Hajian, A., Halbern, M., Harnois-Déraps, J., **Heymans, C.**, Hildebrandt, H., Hincks, A., Kneib, J., Kosowsky, A., Makler, M., Miller, L., Moodley, K., Moareas, B., Niemack, M., Page, L., Partridge, B., Sehgal, N., Shan, H., Sievers, J., Spergel, D., Staggs, S., Switzer, E., Taylor, J., Van Waerbeke, L., Wollack, E., 2015, *PhysRevD*, 91, 2001.

18. *Ultra-deep catalog of X-ray groups in the Extended Chandra Deep Field South*

Finoguenov, A. Tanaka, M. Cooper, M. Allevato, V. Cappelluti, N. Choi, A. **Heymans, C.** Bauer, F. E. Ziparo, F. Ranalli, P. Silverman, J. Brandt, W. N. Xue, Y. Q. Mulchaey, J. Howes, L. Schmid, C. Wilman, D. Comastri, A. Hasinger, G. Mainieri, V. Luo, B. Tozzi, P. Rosati, P. Capak, P. Popesso, P., 2015, *A&A*, 576, 130.

19. *Galaxy And Mass Assembly (GAMA): the galaxy luminosity function within the cosmic web*

Eardley, E. Peacock, J. A. McNaught-Roberts, T. **Heymans, C.** Norberg, P. Alpaslan, M. Baldry, I. Bland-Hawthorn, J. Brough, S. Cluver, M. E. Driver, S. P. Farrow, D. J. Liske, J. Loveday, J. Robotham, A. S. G., 2015, *MNRAS*, 448, 3665.

20. *The galaxy-halo connection from a joint lensing, clustering and abundance analysis in the CFHTLenS/VIPERS field*

Coupon, J. Arnouts, S. van Waerbeke, L. Moutard, T. Ilbert, O. van Uitert, E. Erben, T. Garilli, B. Guzzo, L. **Heymans, C.** Hildebrandt, H. Hoekstra, H. Kilbinger, M. Kitching, T. Mellier, Y. Miller, L. Scodreggio, M. Bonnett, C. Branchini, E. Davidzon, I. De Lucia, G. Fritz, A. Fu, L. Hudelot, P. Hudson, M. J. Kuijken, K. Leauthaud, A. Le Fèvre, O. McCracken, H. J. Moscardini, L. Rowe, B. T. P. Schrabback, T. Semboloni, E. Velander, M. 2015, *MNRAS*, 449, 1352.

21. *Baryons, Neutrinos, Feedback and Weak Gravitaitonal Lensing*

Harnois-Déraps, J., Van Waerbeke, L., Viola, M., **Heymans, C.**, 2015, *MNRAS*, 450, 1212.

22. *Image Analysis for Cosmology: Shape Measurement Challenge: Review and Results form the Mapping Dark Matter Challenge*

Kitching, T., Rhodes, J., **Heymans, C.** Massey, R., Liu, Q., Cobzarenco, M., Cragin, B., Hassaine, A., Kirkby, D., Lok, E., Margala, D., Moser, J., O'Leary, M., Pires, A., Yurgenson, S., 2015, *Astronomy and Computing*, 10, 9.

23. *CFHTLenS: Weak lensing calibrated scaling relations for low mass clusters of galaxies*
Kettula, K., Giodini, S., van Uitert, E., Hoekstra, H., Finoguenov, A., Lerchster, M., Erben, T., **Heymans, C.**, Hildebrandt, H., Kitching, T., Mahdavi, A., Mellier, Y., Miller, L., Mirkazemi, M., Van Waerbeke, L., Coupon, J., Egami, E., Fu, L., Hudson, M., Kneib, J., P., Kuijken, K., McCracken, H., J., Pereira, M., Rowe, B., Schrabback, T., Tanaka, M., Velander, M., 2015, MNRAS, 451, 1460.
24. *CFHTLenS: a Gaussian likelihood is a sufficient approximation for a cosmological analysis of third-order cosmic shear statistics*
Simon, P., Semboloni, E., Van Waerbeke, L., Hoekstra, H., Erben, T., Fu, L., **Heymans, C.**, Hildebrandt, H., Kilbinger, M., Kitching, T., Miller, L., Schrabback, T., 2015, MNRAS, 449, 1505.
25. *CFHTLenS: A weak lensing shear analysis of the 3D-Matched-Filter Galaxy Clusters*
Ford, J., Van Waerbeke, L., Milkeraitis, M., Laigle, C., Hildebrandt, H., L. Erben, T., **Heymans, C.**, Hoekstra, H., Kitching, T., Mellier, Y., Miller, L., Choi, A., Coupon, J., Fu, L., Hudson, M., Kuijken, K., Robertson, N., Rowe, B., Schrabback, T., Velander, M., 2015, MNRAS, 447, 1304.
26. *CFHTLenS: Co-evolution of galaxies and their dark matter haloes*
Hudson, M., Gillis, B., Erben, T., Coupon, J., Hildebrandt, H., **Heymans, C.**, Hoekstra, H., Kitching, T., Mellier, Y., Miller, L., Van Waerbeke, L., Bonnett, C., Fu, L., Kuijken, K., Hilbert, S., Rowe, B., Schrabback, T., Semboloni, E., Velander, M., 2015, MNRAS, 447, 298.
27. *On the complementarity of galaxy clustering with cosmic shear and flux magnification*
Duncan, C., Joachimi, B., Heavens, A., **Heymans, C.**, Hildebrandt, H., 2014, MNRAS, 437, 2471.
28. *The Third Gravitational Lensing Accuracy Testing (GREAT3) Challenge Handbook*
Mandelbaum, R., et al (31 authors including **Heymans, C.**), ApJS, 212, 5, 2014.
29. *CFHTLenS: The relation between galaxy dark matter haloes and baryons from weak gravitational lensing*
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