

CURRICULUM VITAE

Kevin Schawinski

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Education

D.Phil, Astrophysics, Christ Church, Oxford University October 2004 – February 2008
B.A., Physics & Mathematics, Cornell University August 2000 – May 2004

Research Interests

Galaxy Formation and Evolution
Supernovae

Galaxy-Black Hole Co-evolution
Citizen Science

Positions

Einstein Fellow September 2009 –
Postdoctoral Associate, Department of Physics, Yale University August 2008 – September 2009
Henry Skynner Junior Research Fellow, Balliol College, University of Oxford October 2007 – July 2008

Awards & Prizes

RAS Michael Penston Prize – *for the best UK doctoral thesis in Astronomy & Astrophysics* 2009
Einstein Fellowship 2009
Henry Skynner Fellowship 2007
Johnson Memorial Prize 2007

Successful Proposals

Determining the Nature of the Faintest Hard X-ray Selected AGN with Chandra AO-11
Suzaku, PI: Shanil Virani, 40 ksec
How fast can an AGN shut down? Suzaku observation of IC 2497 AO-5
Suzaku, PI: Kevin Schawinski, 75 ksec, \$22,740
The Nature of the Faintest Hard X-ray Selected AGN AO-5
Suzaku, PI: E. Treister, 160 ksec
How fast can an AGN shut down? XMM-Newton observation of IC 2497 Cycle 8
XMM-Newton, PI: Kevin Schawinski, 37 ksec
Tracing Molecular Gas in Galaxy Mergers 2009A
IRAM Plateau de Bure 30m, PI: D. Darg, 40 hours

<i>Tracing AGN Feedback</i>	2009A
IRAM Plateau de Bure 30m, PI: C. Lintott, 30 hours	
<i>A quasar light echo in the local universe?</i>	Cycle 17
Hubble Space Telescope, PI: W. Keel, 7 orbits	
<i>Probing AGN feedback in early-type galaxies</i>	2008A
Gemini South, PI: D. Thomas, 28 hours	
<i>Tracing AGN feedback</i>	Autumn 2007
IRAM Plateau de Bure 30m, PI: C. Lintott, 30 hours	
<i>Comparing the Stellar Populations of Star-forming Galaxies at $z=2$</i>	Cycle 5
NOAO CTIO 4m, PI: E. Gawiser, \$75,000	
<i>Using Lyman Alpha Emitters at $z = 2.1$ and $z = 3.1$ to Probe the Formation of L^* Galaxies</i>	2007B
NOAO CTIO 4m, PI: E. Gawiser, 4 nights	
<i>Observing the physics of AGN feedback in elliptical galaxies</i>	Summer 2007
Very Large Array, PI: Kevin Schawinski, 15 hours	
<i>Tracing AGN feedback</i>	Spring 2007
IRAM Plateau de Bure 30m, PI: C. Lintott, 34 hours	
<i>A SIMPLE Proof that Lyman Alpha Emitters are Galaxies in the Act of Formation</i>	Cycle 4
Spitzer Space Telescope, PI: E. Gawiser, \$ 63,281	
<i>Sizes and Morphology of $z=3.1$ Lyman Alpha Emitting Galaxies in the Extended CDF-S</i>	Cycle 16
Hubble Space Telescope, PI: E. Gawiser, \$ 67,400	
<i>Optical absorption line indices of passive galaxies at redshift 1.5</i>	2007A
Gemini South, PI: C. Maraston, 19.2 hours on GNIRS	

Observing Experience

Space-based:

XMM-Newton, Suzaku

Ground-based:

Keck 2 + NIRSPEC (1 night)

IRAM 30m Pico Veleta mm-wavelength (two weeks)

MDM 2.4m Hiltner Telescope optical imaging and NIR spectroscopy (8 nights)

Professional Experience

Co-Principal Investigator of the Galaxy Zoo project (galaxyzoo.org)

Referee for the Astrophysical Journal, MNRAS

Reviewer for Chilean government (FONDECYT)

GALEX Cycle 5 Time Allocation Committee

YCAA Seminar Series organiser

Memberships

Member, American Astronomical Society

September 2008 –

Fellow, Royal Astronomical Society

March 2007 –

Teaching

B3 Astrophysics (stellar structure and cosmology)	Michaelmas Term 2007
Balliol College, University of Oxford	
Summer School Lecturer	July 2007
IAU Symposium 245 ‘Formation and Evolution of Galaxy Bulges’, Oxford, UK	

Student Supervision

Graduate:

Carolin N. Cardamone, Yale, Ph.D candidate

Undergraduate:

Nathan Downlin, Yale '14 (1 paper)

Bronika Kushkuley, Yale '12 (1 paper)

Iara Cury, Yale '12

Seminars & Colloquia

Colloquium, Department of Physics, Yale University, USA	16 th November 2009
Colloquium, Institute for Astronomy, University of Hawaii, USA	14 th October 2009
Seminar, Center for Space Astrophysics, Yonsei University, Seoul, Korea	18 th May 2009
Seminar, University of Leicester, UK	13 th May 2009
Seminar, Rutgers University, NJ, U.S.A.	6 th March 2009
Seminar, Max Planck Institute for Astronomy, Heidelberg, Germany	16 th December 2008
Seminar, Department of Physics, USCB, USA	3 rd December 2008
Seminar, Center for Astrophysical Sciences, Johns Hopkins University, U.S.A.	4 th November 2008
Seminar, Harvard-Smithsonian Center for Astrophysics, Harvard University, U.S.A.	2 nd October 2008
Seminar, Yale Center for Astronomy & Astrophysics, Yale University, U.S.A.	23 rd September 2008
Seminar, Imperial College London, UK	16 th January 2008
Colloquium, Institute for Gravitation and Cosmology, Portsmouth, UK	31 st May 2007
Seminar, Center for Space Astrophysics, Yonsei University, Seoul, Korea	11 th May 2007

Conference Presentation

Talk, Einstein Fellows Symposium, Chandra Science Center, Harvard University, U.S.A.	27 th October 2009
Talk, IAU 267 Symposium, Rio de Janeiro, Brazil	14 th August 2009
Talk, ‘Accretion & Ejection in AGN: a Global View’, Como, Italy	25 th June 2009
Talk, ‘The Monster’s Fiery Breath’, University of Wisconsin, WI, U.S.A.	1 st June 2009
Invited Panelist, South by Southwest Interactive, Austin TX, U.S.A.	16 th March 2009
Talk, AAS 213th Meeting, Long Beach CA, U.S.A.	5 th January 2009
Talk, ‘When the Universe Formed Stars’, Martinique	20 th November 2008
Talk, 1st. Korean-Japan Workshop, Yonsei University, South Korea	22 nd January 2008
Talk, SDSS-KSG Meeting, South Korea	16 th January 2008
Talk, ‘Galaxy Growth in a Dark Universe’, Heidelberg, Germany	19 th July 2007
Talk, ‘Obscured AGN Across Cosmic Time’, ESO, Kloster Seeon, Germany	7 th June 2007
Talk, ‘The Origin of Galaxies’, ESF, Oberburgl, Austria	26 th March 2007
Talk, AAS 209th Meeting, Seattle, U.S.A.	January 7 th 2007
Poster, RAS Young Astronomers’ Meeting, London, UK	8 th December, 2006
Poster, ‘Studying Galaxy Evolution with Spitzer and Herschel’, Crete, Greece	28 th May - 2 nd June 2006

Talk, 'Pathway to the SKA', Oxford University, UK
Talk, MUSYC Team Meeting, Yale University, U.S.A.
Talk, MUSYC Team Meeting, Yale University, U.S.A.
Talk, Oxford-Princeton Cosmology Workshops Princeton University, U.S.A

10-12th April 2006
May 2006
November 2005
February 2005

List of Publications

8 first author refereed publications
22 co-authored refereed publications
227 citations to first author publications
560 total citations
h-index of 12

First Author Refereed Publications

[8] *How old are SN Ia Progenitor Systems? New Observational Constraints on the Distribution of Time Delays from GALEX*

Kevin Schawinski 2009, MNRAS, 397, 717

[7] *Galaxy Zoo: A sample of blue early-type galaxies at low redshift*

Kevin Schawinski, Chris Lintott, Daniel Thomas, Marc Sarzi, Dan Andreescu, Steven P. Bamford, Sugata Kaviraj, Sadegh Khochfar, Kate Land, Phil Murray, Robert C. Nichol, M. Jordan Raddick, Anže Slosar, Alex Szalay, Jan VandenBerg and Sukyoung K. Yi, 2009, MNRAS, 396, 818

[6] *Do Moderate-Luminosity AGN Suppress Star Formation?*

Kevin Schawinski, Shanil Virani, Brooke Simmons, C. Megan Urry, Ezequiel Treister, Sugata Kaviraj and Bronika Kushkuley, 2009, ApJ Letters, 692, L19

[5] *Destruction of Molecular Gas Reservoirs in Early-type Galaxies by AGN Feedback*

Kevin Schawinski, Chris J. Lintott, Daniel Thomas, Sugata Kaviraj, Serena Viti, Joseph Silk, Claudia Maraston, Marc Sarzi, Sukyoung K. Yi, Seok-Joo Joo, Emanuele Daddi, Estelle Bayet, Tom Bell, Joe Zuntz, 2009, ApJ, 690, 1672

[4] *Supernova Shock Breakout from a Red Supergiant*

Kevin Schawinski, Stephen Justham, Christian Wolf, Philipp Podsiadlowski, Mark Sullivan, Katrien C. Steenbrugge, Tony Bell, Hermann-Josef Roeser, Emma Walker, Pierre Astier, Dave Balam, Christophe Balland, Ray Carlberg, Alex Conley, Dominique Fouchez, Julien Guy, Delphine Hardin, Isobel Hook, Andy Howell, Reynald Pain, Kathy Perrett, Chris Pritchett, Nicolas Regnault, Sukyoung K. Yi, 2008, Science, 321, 223

[3] *Observational evidence for AGN feedback in early-type galaxies*

Kevin Schawinski, Daniel Thomas, Marc Sarzi, Claudia Maraston, Sugata Kaviraj, Seok-Joo Joo, Sukyoung K. Yi and Joseph Silk, 2007, MNRAS, 382, 1415

[2] *The Effect of Environment on the Ultraviolet Color-Magnitude Relation of Early-Type Galaxies*

K. Schawinski, S. Kaviraj, S. Khochfar, S.-J. Yoon, S. K. Yi, J.-M. Deharveng, A. Boselli, T. Barlow, T. Conrow, K. Forster, P. Friedman, D. C. Martin, P. Morrissey, S. Neff, D. Schiminovich, M. Seibert, T. Small, T. Wyder, L. Bianchi, J. Donas, T. Heckman, Y.-W. Lee, B. Madore, B. Milliard, R. M. Rich, A. Szalay, 2007, ApJS, 173, 512

[1] *Suppression of star formation in early-type galaxies by feedback from supermassive black holes*

Kevin Schawinski, Sadegh Khochfar, Sugata Kaviraj, Sukyoung K. Yi, Alessandro Boselli, Tom Barlow, Tim Conrow, Karl Forster, Peter G. Friedman, D. Chris Martin, Patrick Morrissey, Susan Neff, David Schiminovich,

Mark Seibert, Todd Small, Ted K. Wyder, Luciana Bianchi, Jose Donas, Tim Heckman, Young-Wook Lee, Barry Madore, Bruno Milliard, R. Michael Rich, Alex Szalay, 2006, *Nature*, 442, 888.

Refereed Publications

[22] *The SAURON project XVI: On the Sources of Ionisation for the Gas in Elliptical and Lenticular Galaxies*
Marc Sarzi, Joseph C. Shields, **Kevin Schawinski**, Hyunjin Jeong, Kristen Shapiro, Roland Bacon, Martin Bureau, Michele Cappellari, Roger L. Davies, P. Tim de Zeeuw, Eric Emsellem, Jesus Falcon-Barroso, Davor Krajnovic, Harald Kuntschner, Richard M. McDermid, Reynier F. Peletier Remco C. E. van den Bosch, Glen van den Ven, Suhyoung K. Yi., 2009, *MNRAS*, in press.

[21] *Heavily Obscured AGN in Star-Forming Galaxies at $z \simeq 2$*
E. Treister, Carolin N. Cardamone, **Kevin Schawinski**, C. Megan Urry, Eric Gawiser, Shanil Virani, Paulina Lira, Jeyhan Kartaltepe, Maaïke Damen, Edward N. Taylor, Emeric Le Floch, Stephen Justham, Anton M. Koekemoer, 2009, *ApJ*, 706, 535

[20] *Galaxy Zoo: The properties of merging galaxies in the nearby Universe - local environments, colours, masses, star-formation rates and AGN activity*
D. W. Darg, S. Kaviraj, C. J. Lintott, **K. Schawinski**, M. Sarzi, S. Bamford, J. Silk, D. Andreescu, P. Murray, R. C. Nichol, M. J. Raddick, A. Slosar, A. S. Szalay, D. Thomas, J. Vandenberg, 2009, *MNRAS*, in press.

[19] *Galaxy Zoo: the fraction of merging galaxies in the SDSS and their morphologies*
D. W. Darg, S. Kaviraj, C. J. Lintott, **K. Schawinski**, M. Sarzi, S. Bamford, J. Silk, R. Proctor, D. Andreescu, P. Murray, R. C. Nichol, M. J. Raddick, A. Slosar, A. S. Szalay, D. Thomas, J. Vandenberg, 2009, *MNRAS*, in press.

[18] *Galaxy Zoo: Exploring the Motivations of Citizen Science Volunteers*
M. Jordan Raddick, Georgia Bracey, Pamela L. Gay, Chris J. Lintott, Phil Murray, **Kevin Schawinski**, Alexander S. Szalay, Jan Vandenberg, 2009, *Astronomy Education Review*, in press.

[17] *Sizes of Lyman-Alpha-Emitting Galaxies and Their Rest-Frame Ultraviolet Components at $z = 3.1$*
Nicholas A. Bond, Eric Gawiser, Caryl Gronwall, Robin Ciardullo, Martin Altmann, and **Kevin Schawinski**, 2009, *ApJ*, 705, 639

[16] *Galaxy Zoo Green Peas: Discovery of A Class of Compact Extremely Star-Forming Galaxies*
Carolin N. Cardamone, Kevin Schawinski, Marc Sarzi, Steven P. Bamford, Nicola Bennert, C. M. Urry, Chris Lintott, William C. Keel, John Parejko, Robert C. Nichol, Daniel Thomas, Dan Andreescu, Phil Murray, M. Jordan Raddick, Anze Slosar, Alex Szalay, Jan Vandenberg, 2009, *MNRAS*, 399, 1191

[15] *Galaxy Zoo: Disentangling the Environmental Dependence of Morphology and Colour*
Ramin A. Skibba, Steven P. Bamford, Robert C. Nichol, Chris J. Lintott, Dan Andreescu, Edward M. Edmondson, Phil Murray, M. Jordan Raddick, **Kevin Schawinski**, Anze Slosar, Alexander S. Szalay, Daniel Thomas, Jan Vandenberg, 2009, *MNRAS*, 399, 966

[14] *Galaxy Zoo : ‘Hanny’s Voorwerp’, a quasar light echo?*
Chris Lintott, **Kevin Schawinski**, William Keel, Hanny van Arkel, Nicola Bennert, Edward Edmondson, Daniel Thomas, Daniel Smith, Peter Herbert, Matt Jarvis, Shanil Virani, Dan Andreescu, Steven Bamford, Kate Land, Phil Murray, Robert Nichol, Jordan Raddick, Anze Slosar, Alex Szalay, Jan Vandenberg, 2009, *MNRAS*, 399, 129

- [13] *Revealing Hanny's Voorwerp: radio observations of IC 2497*
G. I. G. Jozsa, M. A. Garrett, T. A. Oosterloo, H. Rampadarath, Z. Paragi, H. van Arkel, C. Lintott, W. C. Keel, **K. Schawinski**, E. Edmondson, 2009, A&A Letters, 500, L33
- [12] *Optical Spectroscopy of X-ray sources in the Extended Chandra Deep Field South*
E. Treister, S. Virani, E. Gawiser, C. M. Urry, P. Lira, H. Francke, G. A. Blanc, C. N. Cardamone, M. Damen, E. N. Taylor, **K. Schawinski**, 2008, ApJ, 693, 1713
- [11] *Galaxy Zoo: the dependence of morphology and colour on environment*
Steven P. Bamford, Robert C. Nichol, Ivan K. Baldry, Kate Land, Chris J. Lintott, **Kevin Schawinski**, Anže Slosar, Alexander S. Szalay, Daniel Thomas, Mehri Torki, Dan Andreescu, Edward M. Edmondson, Christopher J. Miller, Phil Murray, M. Jordan Raddick, Jan Vandenberg, 2008, MNRAS, 393, 1324
- [10] *Galaxy Zoo: Chiral correlation function of galaxy spins*
Anže Slosar, Kate Land, Steven Bamford, Chris Lintott, Dan Andreescu, Phil Murray, Robert Nichol, M. Jordan Raddick, **Kevin Schawinski**, Alex Szalay, Daniel Thomas, Jan Vandenberg, 2008, MNRAS, 392, 1225
- [9] *Galaxy Zoo : Morphologies derived from visual inspection of galaxies from the Sloan Digital Sky Survey*
Chris J. Lintott, **Kevin Schawinski**, Anže Slosar, Kate Land, Steven Bamford, Daniel Thomas, M. Jordan Raddick, Robert C. Nichol, Alex Szalay, Dan Andreescu, Phil Murray, Jan van den Berg, 2008, MNRAS, 389, 1189
- [8] *Galaxy Zoo: the large-scale spin statistics of spiral galaxies in the Sloan Digital Sky Survey*
Kate Land, Anže Slosar, Chris Lintott, Dan Andreescu, Steven Bamford, Phil Murray, Robert Nichol, M. Jordan Raddick, **Kevin Schawinski**, Alex Szalay, Daniel Thomas, Jan Vandenberg, 2008, MNRAS, 388, 1686
- [7] *The radial distribution of Type Ia supernovae in early-type galaxies: implications for progenitor scenarios*
Francisco Forster and **Kevin Schawinski**, 2008, MNRAS Letters, 388, L74
- [6] *The UV colours of high-redshift early-type galaxies: evidence for recent star formation and stellar mass assembly over the last 8 billion years*
S. Kaviraj, S. Khochfar, **K. Schawinski**, S. K. Yi, E. Gawiser, J. Silk, S. N. Virani, C. Cardamone, P. G. van Dokkum, C. M. Urry, 2008, MNRAS, 388, 67
- [5] *A Spectrophotometric Search for Galaxy Clusters in SDSS*
Joo H. Yoon, **Kevin Schawinski**, Yun-Kyeong Sheen, Chang H. Ree, Suhyoung K. Yi, 2008, ApJS
- [4] *UV-Optical Colors As Probes of Early-Type Galaxy Evolution*
S. Kaviraj, **K. Schawinski**, J. E. G. Devriendt, I. Ferreras, S. Khochfar, S.-J. Yoon, S. K. Yi, J.-M. Deharveng, A. Boselli, T. Barlow, T. Conrow, K. Forster, P. Friedman, D. C. Martin, P. Morrissey, S. Neff, D. Schiminovich, M. Seibert, T. Small, T. Wyder, L. Bianchi, J. Donas, T. Heckman, Y.-W. Lee, B. Madore, B. Milliard, R. M. Rich, A. Szalay, 2007, ApJS, 173, 619
- [3] *The Look-back Time Evolution of Far-Ultraviolet Flux from the Brightest Cluster Elliptical Galaxies at $z < 0.2$*
Chang H. Ree, Young-Wook Lee, Suhyoung K. Yi, Suk-Jin Yoon, R. Michael Rich, Jean-Michel Deharveng, Young-Jong Sohn, Sugata Kaviraj, Jonghwan Rhee, Yun-Kyeong Sheen, **Kevin Schawinski**, Soo-Chang Rey, Alessandro Boselli, Jaehyon Rhee, Jose Donas, Mark Seibert, Ted K. Wyder, Tom A. Barlow, Luciana Bianchi, Karl Forster, Peter G. Friedman, Timothy M. Heckman, Barry F. Madore, D. Christopher Martin, Bruno Milliard, Patrick Morrissey, Susan G. Neff, David Schiminovich, Todd Small, Alex S. Szalay, Barry Y. Welsh, ApJS, 2007, 173, 607

[2] *Ly α -Emitting Galaxies at $z = 3.1$: L^* Progenitors Experiencing Rapid Star Formation*

Eric Gawiser, Harold Francke, Kamson Lai, **Kevin Schawinski**, Caryl Gronwall, Robin Ciardullo, Ryan Quadri, Alvaro Orsi, L. Felipe Barrientos, Guillermo A. Blanc, Giovanni Fazio, John J. Feldmeier, Jia-Sheng Huang, Leopoldo Infante, Paulina Lira, Nelson Padilla, Edward N. Taylor, Ezequiel Treister, C. Megan Urry, Pieter G. van Dokkum, Shanil N. Virani, for the MUSYC Collaboration, 2007, ApJ, 671, 278

[1] *The Physical Nature of Ly α -emitting Galaxies at $z=3.1$*

Eric Gawiser, Pieter G. van Dokkum, Caryl Gronwall, Robin Ciardullo, Guillermo A. Blanc, Francisco J. Castander, John Feldmeier, Harold Francke, Marijn Franx, Lutz Habertzettl, David Herrera, Thomas Hickey, Leopoldo Infante, Paulina Lira, Jose Maza, Ryan Quadri, Alexander Richardson, **Kevin Schawinski**, Mischa Schirmer, Edward N. Taylor, Ezequiel Treister, C. Megan Urry, Shanil N. Virani, for the MUSYC Collaboration, ApJL, 2006, 642, 13L

Non-Refereed Publications

[8] *The role of AGN in the migration of early-type galaxies from the blue cloud to the red sequence*

Kevin Schawinski, 2009, Proceedings of “The Monster’s Fiery Breath”, Madison, Wisconsin, Ed. Sebastian Heinz & Eric Wilcots

[7] *Recent star formation in high-redshift early-type galaxies: insights from the rest-frame UV*

S. Kaviraj, S. K. Yi, E. Gawiser, P. G. van Dokkum, S. Khochfar, **K. Schawinski**, J. Silk, 2008, IAU Symposium, 245, 195

[6] *GALEX UV-derived Star Formation History of Elliptical Galaxies*

Yi, S.K., Kaviraj, S., **Schawinski, K.**, Khochfar, S. and the GALEX Team 2008, ASPC, 374, 463

[5] *Environment and the epochs of galaxy formation in the SDSS era*

D. Thomas, C. Maraston, **K. Schawinski**, M. Sarzia, S.-J. Joo, S. Kaviraj and S. K. Yi, 2007, IAU Symposium, 241, 54

[4] *A Binary Model for the UV-upturn of Elliptical Galaxies*

Z. Han, Ph. Podsiadlowski, A.E. Lynas-Gray, **K. Schawinski**, 2007, IAU Symposium, 241, 181

[3] *The Star Formation History of Early-type Galaxies*

Sukyoung K. Yi, Sugata Kaviraj, **Kevin Schawinski**, and the GALEX Team, 2007, RMxAC, 28, 109

[2] *GALEX-derived Residual Star Formation History of Elliptical Galaxies*

Yi, S. K., Kaviraj, S., **Schawinski, K.**, Khochfar, S. and the GALEX Science Team, 2007, EAS Publications Series, 24, 73

[1] *GRB 050525a: MDM observations*

Mirabal, Bonfield and **Schawinski**, 2005, GRB Coordinates Network, 3488, 1