

Nicola S. Clayton, PhD, FRS, FSB, FAPS, C Psychol
Curriculum Vitae
200 publications; H index of 37

Personal Details

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Education

1984 Zoology BA Honours (Oxon)
1987 Ph D (St. Andrews); MA (Oxon)

Professional History

1987 - 1990 Alexander von Humboldt Scholar and Royal Society Post-doctoral Fellow in the Department of Animal Behaviour, University of Bielefeld, Germany
1990-1992 SERC Post-doctoral Fellow in the Department of Zoology and Junior Research Fellow at Linacre College, University of Oxford
1992 Departmental Demonstrator in Animal Behaviour, Department of Zoology University of Oxford
1992 - 1995 AFRC University Research Fellow, Department of Zoology, Oxford
1995 - 1998 Assistant Professor, Section of Neuroscience, Physiology and Behavior (NPB) University of California Davis
1998 - 2000 Associate Professor, Section NPB, University of California Davis
1999 - 2000 Chair of the Animal Behavior Graduate Group, University of California Davis
2000 Full Professor, Section NPB, University of California Davis
2000 - 2002 Tenured University Lecturer in the Department of Experimental Psychology
2002 - 2005 Reader in Comparative Cognition
2005 - Professor of Comparative Cognition
2009- Scientific Advisor to Rambert Dance Company
2010- Fellow of the Society of Biology
2010- Fellow of the Association for Psychological Science
2010- Fellow of the Royal Society
2011 Chartered Psychologist and Fellow of the Division for Teachers and Research in Psychology, British Psychological Society

Other Appointments and Affiliations

Membership of professional bodies and learned societies:

Association of Animal Behaviour, Experimental Psychology Society, International Affiliate of the American Psychological Association, British Neuroscience Association, British Ornithological Union, Cambridge Philosophical Society

Fellowship of professional bodies and learned societies:

Fellow of Association for Psychological Science, Fellow of the Society of Biology, Fellow of the British Psychological Society, Fellow of the Royal Society.

Advisory bodies, Awards and Key Notes

- 1999 National Institute of Health site visit to the Language Research Center at Georgia State University, Atlanta (USA)
- 1999 - 2000 Chair of the Behavior Academic Plan committee to develop a new 'Center for Animal Behavior' at the University of California Davis (USA)
- 2002 – Member of Faculty of 1000, Cognitive Neuroscience section. This is a group of 1000 international leading scientists who comment on the significance and reputation of published papers.
- 2002 - 2003 British Neuroscience Association organizing committee
- 2003 Foresight project on Social Cognition, organized by Frith, U. and Dr. Blakemore, S.-J.
- 2002 – 2004 BBSRC Animal Sciences Committee
- 2004 – 2007 Advisory board for the AHRB "Culture and Mind" project by Laurence, S. and Stich, S.
- 2005 Selection panel for Science Graduate of the Year for the Royal Institute/L'Oréal
- 2007 - 2017 International Scientific Committee for the PhD programme "Frontiers in Life Sciences" established by Ecole Normale Supérieure (ENS d'Ulm), Paris Descartes (Paris V) and Paris Diderot (Paris VII) universities.
- 2008 – 2010 Royal Society Dorothy Hodgkin Fellowship Selection Panel – B side
- 2008 - 2013 European Research Committee FP8, Ecology and Evolution Panel
- 2009 - 2012 Council member of the Association of Animal Behaviour
- 2009 - 2012 BBSRC Research Committee A (Animal Systems, Health and Well Being)
- 2010 - 2013 Royal Society Newton International Fellowship Committee (Biological Sciences)
- 2010 - 2013 Royal Society Wolfson Research Merit Awards Committee (Biological Sciences)

Editorial work

- 1991 - 1995 Consulting Editor for *Animal Behaviour*
- 1996 - 2006 Associate Editor for *Ibis*
- 1999 - 2002 Consulting Editor for *Behavioral Neuroscience*
- 2001 - 2004 Associate Editor of *Quarterly Journal of Experimental Psychology*
- 2001 - 2004 Associate Editor of *Animal Behaviour*
- 2003 - 2008 Associate Editor of *Learning and Motivation*.
- 2003 - 2008 Editorial Committee for *Biological Reviews*
- 2004 - 2005 Section Editor (with Hen, R.) of *Current Opinions in Neurobiology* volume 15 on the Neurobiology of Behaviour
- 2006 - 2009 Editorial Board, *Public Library of Science*
- 2007 Editor (with Emery, N. J and Frith, C. D.) of a special issue of *Philosophical Transactions of the Royal Society*, volume 362,.
- 2007-2010 Associate Editor *Proceedings of the Royal Society B*
- 2007-2010 Consulting Editor of *Learning and Behavior*
- 2008-2011 Associate Editor of *Frontiers in Neuroscience*
- 2010 Section Editor on Animal Cognition for the Encyclopaedia of Animal Behaviour, edited by Breed, M. and Moore, J. Elsevier Press.

Organization of recent conferences and discussion meetings

- May 2005 Royal Society Discussion meeting "Social intelligence: from brain to culture" with Emery, N. J and Frith, C.D.
- Sept. 2007 Wellcome Trust conference, on "The evolution of brain, behaviour and intelligence" with Grant, S. and Paabo, S.

Sept. 2009	Wellcome Trust conference, sponsored by the Wellcome Trust and Science, on “The evolution of brain, behaviour and intelligence” with Grant, S. and Paabo, S.
Feb 2011	Royal Society Discussion meeting on “The future of comparative cognition” with Thornton, A. and Grodzinski, U.

Prizes, Awards and Other Honours

1981 - 1984	Domus Scholarship, Pembroke College, Oxford
1997	Best Teachers in America Award
1998	Semifinalist in the Chancellor’s Award for Excellence in Teaching at UC Davis
1999	American Psychological Association’s Frank Beach Award
2003	Klaus Immelmann Award in Animal Behaviour
2005	Plenary Talk at the International Ethological Congress in Budapest, August
2005	Society for Neuroscience Special Lecturer, November
2006	JP Scott Lecture at Bowling Green State University, November
2007	Keynote address at the Memory Disorders Society Meeting, September
2008	Barclay Distinguished Lecture Series University of California Irvine, January
2008	Schlossberg Lecture at Brown University, May
2008	Lecture at Duke University’s Mind, Brain and Behavior Distinguished Lecture Series, September
2009	American Association for the Advancement of Science, Plenary, February
2009	American Academy of Science ‘Prospective Brain’ conference, Plenary Speaker
2010	Sir Hans Sloane Lecturer, Queen’s University Belfast, April
2010	Jean-Marie Delwart Award in Comparative and Evolutionary Neuroscience, Belgium Academy of Sciences
2011	Plenary at the International Ethological Congress
2011	Plenary at the International Congress of Memory
2012	Darwin Day Celebratory Lecture University of Lancashire
2012	Experimental Psychology Society Mid-Career Award

Grants

2010 – 2013	Leverhulme Trust (Russell & Clayton)	£	131,256
2011 - 2014	BBSRC (Clayton & Mendl)	£	505,051
2011 - 2013	Wellcome Trust, Large Arts Award (Bode, Clayton et al)	£	262,960,

Previous Funding Sources

1992 - 1995	AFRC Grant and Fellowship	\$	80,000
1993 - 1996	BBSRC Grant	\$	235,000
1996 - 1997	UCD Alzheimer's Grant	\$	20,000
1997 - 2000	Whitehall Foundation	\$	113,145
1998 – 1999	NIH: NIA	\$	50,000
1998 – 2000	American Federation of Aging Research	\$	40,000
1999 - 2000	NIH: NIDA	\$	15,000
1996 - 2001	NIH: NINDS	\$	350,000
2001 - 2004	NIH: NIMH (Clayton)	\$	79,813
2002 - 2005	BBSRC (Clayton & Dickinson)	£	262,792
2002 - 2005	Marie Curie (Clayton)	£	67,219
2005 – 2008	BBSRC (Emery & Clayton)	£	268,773
2005 – 2008	BBSRC (Clayton, Emery & Dickinson)	£	375,859

Public Communication and Understanding of Science

Radio

I have participated in many radio interviews for local national and international stations. Highlights include: the Today programme January 2001 and November 2001; Radio 4 avian intelligence programme, June 2003; National Geographic News, August 2003; BBC Three Counties Radio and BBC Radio 4 Material World, March 2004; Australian National Radio September 2005, July 2006, September 2006; Start the Week, Radio 4, November 2006; CBC (Canada) Information Morning, August 2007; BBC Radio Cambridgeshire, February 2007 and June 2008 (Naked Scientist 1 hour programme), American Academy of Science Media interview, Jan 2009; Radio 4 Start the Week, Oct 2009; Radio 4 Leading Edge, October 2009; Radio 4 The Music Group, May 2010, Radio 4 Weekend World Sept 2011, Local BBC Radio Lancashire Sept 2011, Bristol October 2011, Norfolk November 2011, Cambridgeshire December 2011; Radio 4 The Life Scientific Nov 2011.

Television

Animal Intelligence, Missing Link Productions, August 1998 ; Animal Cognition, Discovery Channel Canada, February 1999 ; Consultant for the Animal Minds series, Green Umbrella Productions (BBC and PBS), May 1998; Avian Intelligence, Screenhouse Productions, November 2001 ; Clever Crows, Discovery Channel Canada, October 2002
'A Child of Our Time', BBC1, September 2003 ; Avian Intelligence, VDR (Germany) January 2004; Consultant for 'Bird Brains', BBC, September 2008 Sky Arts, Dancing to Darwin, September 2009, see also <http://www.skyarts.co.uk/video/video-sky-arts-at-rambert-dance-company>; BBC 4 The Search for Life January 2011; BBC 4 Bang Goes The Theory November 2011; BBC1 Super Smart Animals February 2012.

Web

Rambert Dance Company, *The Comedy of Change*, filmed September 2009 (<http://www.rambert.org.uk/>);
BBSRC film Social Cognition in Birds (http://www.bbsrc.ac.uk/science/our_science_explained/0909_are_some_birds_as_clever_as_chimps.html);
Cambridge Ideas: Bird Tango, Cambridge 800Th Anniversary Campaign, September 2009 (<http://www.800.cam.ac.uk/page/148/cambridge-ideas-bird-tango.htm>)
Rambert Dance Company, *Seven for a secret, never to be told* (<http://www.rambert.org.uk/>) September 2011.
BBC Radio 4 Life Scientific <http://www.bbc.co.uk/programmes/b017cd0v>

Journalism

Guest Writer for The Times, February 2010; the Eureka magazine in The Times, March 2011; and The Daily Mail, December 2011.

Public Lectures

Smithsonian Institute May 1999, 'How the brain learns' together with Professors Larry Squire, Tom Carew, Howard Eichenbaum and Jay McClelland.; Public debate for the Cambridge Science Festival, March 2004: 'Reactions to Time' with Sir Martin Rees (Astronomer Royal), Professor Peter Lipton (Head of History and Philosophy of Science, Cambridge), chaired by Tim Radford (Chief Editor of the Guardian); Public plenary lecture for the Cambridge Science Festival, March 2005 and March 2009; Royal Society and Royal Society of Literature Public Discussion Meeting, November 2006 entitled 'Mind the Gap'; Cambridge University Alumni Talks September 2007 and 2009; Clare College Alumni Talk,

June 2009: LSE Public debate Do Animals Think Feb 2011, Science Soap Box for the Zoological Society for Science, July 2011.

Public Communication of Science Through Dance

I am Scientist in Residence at the Rambert Dance Company, Britain's flagship contemporary dance company. I have been working closely with the artistic director, Mark Baldwin, on the choreography of new works. The first was *The Comedy of Change*, in honour of Darwin's bicentennial, which saw its world premiere in Plymouth on September 16 2009, and UK premiere at Sadler's Wells in London on November 3 2009. The second was *Seven For A secret Never To Be Told*, which premiered in Salford on September 21 2011, with a UK premiere at Sadler's wells in London on November 15 2011. I am now working on a third piece *What Wild Ecstasy*, which premiered in Aberdeen on February 15 2012 and at Sadler's Wells in London on May 15 2012. The significance of our collaboration has been recognized by the Laurence Olivier award for outstanding contributions in dance for 2009, and the National Dance Academy award for 2010, both for the new works including *The Comedy Of Change*.

In addition to the choreographic works I have been asked to give various pre- and post-performance talks with Mark Baldwin at the performance venues and for schools, as well as various public lectures including the Hay Festival in June 2011, the Royal Society's One Culture in October 2011, at Google in December 2011, at the British Academy in January 2012 and Newnham College Arts Society in February 2012. We have been invited back to Google in May 2012, and to the Cheltenham Arts festival in June 2013.

Contributions to Furthering Education and Awareness of Science in Schools

I make a number of contributions to school education. For example, I was the guest of honour at Hills Road Sixth Form's annual college prize giving in September 2005. I have also given a number of lectures and demonstrations to schools. For the past three summers, I ran one of the Challenge Days for Year-10 students as part of the 'Aimhigher Widening Participation Projects' run by the Admissions Office at Cambridge University, and I also gave several 2-hour lecture and demonstration sessions on "animal intelligence: who is the cleverest of them all?" for the Further Education Summer school and Easter school for the Gateway programme, operated through Cambridge University Admissions Office. I also co-ordinate a demonstration and practical display on crow intelligence for the departmental open day each Spring as part of the Cambridge Science Festival and various outreach and schools liaison programmes at Clare college.

Profile Pieces

Morell, V. (2007). Nicola Clayton Profile: Nicky and the Jays. *Science* 315, 1074-1075.

Clayton, N. S. (2007). Nicola Clayton: Q & A. *Current Biology* 17, R345-346.

Walsh, L. (2008). Nicola Clayton. *Research Horizons* 5, 31.

Clayton, N. S. (2009). A Don's Diary: Nicola S. Clayton. Cambridge Alumni CAM magazine 59, p. 14.

Holden, C. (2009). Random Samples: Darwin and Dance. *Science* 325, 1481.

Clayton, N. S. (2009). Dancing to Darwin. *Current Biology* 19, R725.

O'Connell, S. (2009). Dance like Darwin. *New Scientist* November 7th issue, p. 58. Books and Arts.

Clayton (2009). Q&A: Bird Behaviour, Darwin and Dance. *Nature* 462, 288.

Wohlforth, C. (2010). Who Are You Calling Bird Brain? Discover magazine, March issue, pp. 45-49.

Davies, C. (2010). A Significant Interaction: Arts and Reviews. *Blue Sci* 17, pp. 26-27.

Thompson, L. (2011). Dance Cosies Up To Science. *The Daily Telegraph* 19 September.

- Hedge, J. P. (2011). Visionary collaboration of art and science. Torquay Herald Express, 24 November.
- Performance (2011). Preview: Random Dance. Venue Magazine October issue.
- Saul, C. (2011). Dance Today. Nicola Clayton. November issue pp. 33-37.
- Gross, M. (2011). Dances with magpies. Current Biology 21, R 905-907.
- Cressey, D. (2011). Crows, children and choreography. Nature 21 October. doi:10.1038/news.2011.608
- Marling, C. (2012), Royal Society Blogs: Inside Science. <http://blogs.royalsociety.org/inside-science/2012/02/21/brainy-birds-and-the-magic-of-movement/>

Profile Photographs and Films

- Guest, H. (2008). *On The Shoulders of Giants*. Portraits from the University of Cambridge, p. 79. Howard Guest Publishing Limited.
- Hull, K. (2009). *Cambridge Ideas: Bird Tango*. One of ten people selected to make individual short films to promote excellence in research ideas within the university, as part of the Cambridge University 800th Campaign.