

Curriculum Vitae

Francesco d'Errico

*Professor II

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DEGREES

2003 - Habilitation à diriger des Recherches (HDR), University Bordeaux 1 (France).

1989 - PhD, Prehistory, Paleoanthropology, and Quaternary Geology, Muséum National d'Histoire Naturelle, Paris.

1986 - Post-Graduate School in Prehistoric Archaeology, University of Pise (Italy).

1985 - D.E.A. Prehistory and Quaternary Geology, University of Paris VI (France).

1982 - Master in Archaeology and Anthropology, University of Turin (Italy).

ACADEMIC APPOINTMENTS

Current: • Director of research of Exceptional Class, Centre Nationale de la Recherche Scientifique, France

• Professor II, SFF Center for Early Sapiens Behavior, University of Bergen, Norway

Previous

2015-2017 Honorary Professorial Fellow, DST-NRF Centre of Excellence in Palaeosciences
Evolutionary Studies Institute, University of the Witwatersrand
Private Bag 3, WITS 2050| Johannesburg, South Africa

2011-2015 Professor II, Institute of Archaeology, History, Cultural and Religious Studies, University of Bergen, Norway.

2008-2011 Honorary Professor, Institute for Human Origin, University of Witswatersrand, Johannesburg, South Africa.

2005-2008 Research Professor, Dept. of Anthropology. George Washington Univ., Washington DC.

2004-2008 2st class Director of research, Centre Nationale de la Recherche Scientifique, France.

1994-2004 1st class CNRS researcher, Centre Nationale de la Recherche Scientifique, France.

1994 - Contract researcher, McDonald Institute for Archaeological Research, Cambridge, U.K.

1991 - Contract researcher, Forschungsbereich Altsteinzeit, Schloß Monrepos, Neuwied, Germany.

1987 - Adjunct professor, Muséum National d'Histoire Naturelle, Institut de Paléontologie Humaine, Paris.

Visiting Professorships

2007 - Department of Anthropology, Princeton University, New Jersey.

2003 - Department of Anthropology, George Washington, Washington DC.

1999 - Dept. of Archaeology, University of Witwatersrand, Johannesburg, South Africa.

1996 - Fellow, Royal Society, University of Cambridge, CNRS-Royal Society exchange program.

Fellowships

01/1993-02/1994: Post-doctoral Fellow, Cambridge, UK.

1992: Post-doctoral Fellow, Consejo Superior de Investigaciones Científicas, Madrid, Spain.

1990-91: Fellow of the NATO Science Program (Advanced fellowship), Paris, France.

1987-88: Fellow of the Fyssen Foundation, Paris, France.

1984-86: Ph.D. fellow of the Italian Ministry for Education and Research, Paris, France.

Languages: Italian (mother language), French, English, Spanish

Publications (h-index 57, i10 index: 52, sum of citations 14560, Google Scholars Nov. 2017)
3 monographs; 5 edited monographs, 159 articles in peer reviewed journals (75 as first author), 119 chapters in books and proceedings of conferences, 253 presentations at conferences (80 as invited speaker), 4 scientific documentaries and podcasts.

Scientific and administrative responsibilities

- 2011-2015 Director, Sub-Department of Prehistory, Paleoenvironment and Cultural Heritage. UMR PACEA, CNRS-Bordeaux University, Talence, France.
- 2010-2015 Co-Project leader of an ERC Advanced Grant. University of Bordeaux and Bergen.
- 1996-2011 Project leader of 11 international and 6 national research projects

Scientific Awards

2014, Frassetto Price for Anthropology, Accademia Nazionale dei Lincei, Rome

2014, Silver medal of the CNRS,

2014-2017, inclusion in the list of the Highly Cited Researchers (<http://highlycited.com/>).

2016, Listed in the *Top Italian Scientists* list as the most cited Italian research working in the Social Sciences

(http://www.topitalianscientists.org/TIS_HTML/Top_Italian_Scientists_Humanities.htm)

Additional current and previous scientific and administrative responsibilities: • project referee, European Research Council (2012-current), • *Pool of Referees*, European Science Foundation (2007-current), Selection committee, *Senior Researchers* call, ICREA-Institució Catalana de Recerca i Estudis Avançats (2012-current), • Advisory Committee of Shanghai Archaeology Forum (2013-current), • Steering Committee LABEX LaScArBx University of Bordeaux (2012-current), • comité scientifique LABEX BCDiv du Muséum National d'Histoire Naturelle (2012-current), • Conseil Scientifique de l'Observatoire Aquitaine des Sciences de l'Univers (2011-current), • referee, EUROCORES Theme Proposals, European Science Foundation (2009), • Comité National de la Recherche Scientifique (2004-2008), • commissions de spécialistes Université Bordeaux 1 (1999-2001), • scientific committee, Quaternary Ecosystem Science Training International Group (2009), • commission de spécialistes, Muséum National d'Histoire Naturelle (2005-2009), • comité d'évaluation de l'Agence Nationale pour l'évaluation de la Recherche Scientifique (2008), • comité de pilotage, Programme ECLIPSE II, Institut National des Sciences de l'Univers (2003-2007), • member of the *Advisory Board* de AppEEL - Lisbon Applied Evolutionary Epistemology Lab (2012-current), • member, *Comissão externa permanente de aconselhamento científico* (CEPAC), Centre de Arqueologia da Universidade de Lisboa (2012), • consultant for the Leakey Foundation, Wenner Gren Foundation, National Science Foundation, Netherlands Institute for advanced Study in the Humanities, MacGil University, Katholieke Universiteit Leuven, University of Victoria, University of Pennsylvania, McDonald Grants and Awards Fund, University of California, European Reference Index for the Humanities, National Environment Research Council, Associação dos Arqueólogos Portugueses (1996-2013).

Funding

Current Research Grants

2010-2017: Two bilateral project Cai Yuanpei with the Institute of Vertebrate Paleontology and Paleoanthropology, Chinese Academy of Sciences, Beijing)

2015-2017 : Bilateral project Projet PICS with the Academy of Science of the Ukraine

Previous: ERC Advanced Grant (with Chris Henshilwood, Univ. of Bergen), 2,5 Meuros
1995-2014 project leader of **ten international and three national research projects** (c. 400 Keuros)

Graduate student supervision

2002-2013: 14 Ph.D. students from France, Italy, Serbia, USA, Belgium, Canada

2002-2013: 19 master students from France

1999-2002: 5 DEA (Diplôme d'Etudes Approfondies) students

Post-doctoral fellow supervision (see details below)

2006-2013: 9 post-doctoral fellows from France, USA, Italy, Mexico, Colombia, Malta, UK

Teaching (450 hours)

1995-2013: Universities of Bordeaux 1, Bordeaux 3, Philadelphia, Princeton, Grenoble, Witwatersrand (South Africa), Rovira Y Virgili (Spain), Muséum National d'Histoire Naturelle (Paris), Stockholm, Lund, Montreal, (c. 250 hours)

Conferences (see details below)

1995-2010: organiser of 8 international conferences and workshops

Seminars and lectures

1995-2013: 90 seminars and lectures in France, USA, South Africa, Italy, Canada, U.K., Spain, Belgium, Portugal, Swizerland, Germany.

Fieldwork

1994-2017: 44 expeditions, excavations, and work in Museum in France, Germany, US, Morocco, Tunisia, Kenya, Namibia, Ukraine, U.K., Spain, Italy, Portugal, Botswana, Ethiopia,

Content and impact of the major scientific contributions

Most of my research has revolved around the questions of how and when we became humans, what mechanisms and factors have most contributed to this process and, in particular, when did cognitive abilities and cultures comparable to ours have emerged in our lineage. I have addressed these topics by analysing the first examples of symbolic material culture in Africa, Europe and the Near East, the process of Neanderthal extinction and colonisation of Europe by Anatomically modern Humans, the impact of climate change on Palaeolithic populations, and the emergence of cultural boundaries and social inequalities in the Upper Palaeolithic through the analysis of ornaments and grave goods.

A central achievement and focus of my many publications has been the recognition of the most ancient symbolic traditions in Africa, Europe, and the Near East. My recognition of elaborated bone tools and personal ornaments at Middle Stone Age sites from North and South Africa, at Mousterian sites from the Near East, and the ongoing work on pigments utilised by Neanderthals has enabled me to question the dominant paradigm of a sudden European origin of modern human cultures, identify the presence of most ancient symbolic traditions in Africa, Europe, and the Near East, and propose new scenarios to account for the emergence of key cognitive and cultural innovations in our lineage. My work on Neanderthal extinction has questioned accepted scenarios for this crucial population event by proposing a new chronology for the arrival of modern humans in Europe and for the origin of key cultural innovations among the last Neanderthals. This has challenged mainframe views of the cognitive abilities associated to this human type.

The application of statistical analyses to the geographic distribution of the oldest beadworking tradition of Europe has allowed me, for the first time, to identify clear geographic clines interpreted as reflecting the oldest known European cultural boundaries. By applying novel methods of investigation to grave goods associated to Upper Palaeolithic burials I was able to propose on new

grounds the hypothesis that social inequalities were at work among these societies, traditionally considered as egalitarian.

International recognition and diffusion

My publication record includes more than 250 papers, 180 of which published in peer reviewed journals and 81 as first author; 62 of these papers are published in top international journals such as *Science*, *Nature*, *PNAS*, *Nature Geoscience*, *Journal of Human Evolution*, *Philosophical Transaction of the Royal Society*, *PLOSone*, *Journal of Archaeological Science*, *Quaternary Science Review*, *Current Anthropology*, *Journal of World Prehistory*, *Journal of Anthropological Archaeology*, *Earth and Planetary Science Letters*, *Evolutionary Anthropology*. I am the senior author of 33 of these last papers. I am, in addition, the author of 3 monographs and the editor of 5 others.

The widely recognised impact of my scientific activities is also demonstrated by the 60 invitations to give keynote speeches and opening lectures at prestigious scientific meetings (American Association for the Advancement of Science, National Science Foundation, Quaternary Research Association, Royal Society Festival of Science, Frankfurt Institute for Advanced Studies, Fondation Hugot du Collège de France, British Science Festival, London Quaternary Lectures, Arizona State University Institute of Human Origin, Tübingen Hilgendorf lecture, Canadian Institute for the Advanced Research, Asociacion Antropologia Biologica Argentina, Wenner Gren Fondation).

It is also demonstrated by the invited professorships I have got at Princeton, George Washington, and Wits university.

The results of my research have been echoed many times by review papers in *Nature*, *Science*, *New Scientist*, *Science News*, *Discover Magazine*, *La Recherche*, and in hundred of newspapers articles, radio, television programmes, and internet websites around the world. I list below some of the review papers on my work: • Lewin R. (1989). Ice age art idea toppled. *Science* 243, 4897, pp. 1435, • Bahn P.G. (1989). Getting into the groove. *Nature* 339, 6224, pp. 429-430, • Bahn P.G. (1998). Archaeology : Neanderthals emancipated. *Nature* 396, 6695: 719-721, • Balter M. (2006). First Jewelry? Old Shell Beads Suggest Early Use of Symbols, *Science* 312: 1731, • Balter M. (2009). Early start for human art? Ochre may revise timeline, *Science* 323: 569, • Balter M. (2009). On the origin of Art and Symbolism, *Science*. 323(5915) : 709-11, • Balter M. (2012). Ice Age Tools hint at 40,000 years of Bushman culture, *Science* 337: 512.

I have myself written 43 papers to popularize the results of my research in journals such as *Scientific American*, *La Recherche*, *Pour la Science*, *Science et Vie* and given hundreds of interviews to comments on mine or others' results to journalists of various media.

Efforts and ability to inspire younger researchers

I have lectured and given academic seminars to students at both graduate and undergraduate levels in France, USA, Italy, Canada, Switzerland, Germany, England, Portugal, Spain, South Africa and Belgium.

I have systematically involved my Master's and Ph.D. students in high quality research projects and have invested significant time and effort in training them in all aspects of research. This ranges from the identification of major scientific challenges to the best-fit research strategies to address them, from the collection of data and its analysis to the publication of the results.

I have introduced my students to a broad scientific community by encouraging their participation in international conferences and promoting the publication of their results, as first author, in rated peer reviewed journals. My open-door approach and close supervision of students in the laboratory has, I believe, proven to be a key to their success.

I am proud to say that all my nine graduate Ph.D. students have obtained permanent research

positions or post-doctoral fellowships, and two of them have already acted with me as co-supervisors of a new generation of Ph.D. students.