

Nicolas CLAUDIERE PhD, CNRS

Born: 18 November 1979

Birthplace: Grenoble (France)

Nationality: French

Personal details

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Current Affiliation

Laboratoire de Psychologie Cognitive

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Interests

I study the social origins of cultural phenomena and more precisely the development and evolution of socio-cognitive capacities involved in the emergence and evolution of culture.

Principal interests: comparative psychology, evolutionary psychology, social psychology, developmental psychology, social influence, prosociality, conformity, cultural evolution

Academic achievements

2005-2009 PhD in Cognitive Sciences (Highest distinction)

Darwinian theories of cultural evolution: models and mechanisms. Supervised by Dan Sperber. Jury members: Minus Van Baalen (referee), Dominique Guillo (referee), Jean Baptiste André, Michel Morange and Jean Gayon. Ecole Normale Supérieure & Université Pierre et Marie Curie, Paris, France.

2004-2005 Master 2: Interdisciplinary Approaches in Life Sciences (Distinction: Excellent)

Ecole Normale Supérieure & Université Pierre et Marie Curie, Paris, France.

2003-2004 Agrégation: French teaching national diploma in life and earth sciences

Ecole Normale Supérieure, Paris, France & Université Paris Sud, Orsay, France.

2002-2003 Master 1: Population biology, ecology and evolution (Distinction: Very good)

Ecole Normale Supérieure & Université Pierre et Marie Curie, Paris, France.

2001-2002 Year off in India

2000-2001 Undergraduate studies in Biology

Licence in biology. Ecole Normale Supérieure & Université Pierre et Marie Curie, Paris, France.

Professional experience

2015-Present: Researcher at the CNRS, France

2013-2015 Postdoc: Attraction and selection in cultural evolution

Study of cultural evolution in humans and baboons. (supervisor: Joel Fagot) Aix Marseille University, France.

2010-2013 Postdoc: child, capuchin and chimpanzee cognition

Evolution and Development of Prosocial Cultures' (supervisor: Andrew Whiten), University of St Andrews, St Andrews, UK.

2009-2010 Postdoc: humans', capuchin and squirrel monkeys' social leaning

Explaining the persistence of culture' (supervisor: Andrew Whiten), University of St Andrews, St Andrews, UK.

2005-2009 PhD: Evolutionary modelling, adult cognition studies

Darwinian theories of cultural evolution: models and mechanisms. PhD (supervisor: Dan Sperber). Ecole Normale Supérieure & Université Pierre et Marie Curie, Paris, France.

2004-2005 Master 2: Anthropology, evolutionary modelling

Models of cultural evolution. (supervisor: Dan Sperber) Institut Jean Nicod, Paris, France. Three months.

Modelling cultural diffusion. (supervisor: Paul Bourguine) CREA, Ecole Polytechnique, Paris, France. Three months.

Naven: a ritual with multiple aspects. (supervisor: Philippe Descola) Laboratoire d'Anthropologie Sociale, Paris, France. Three months.

2003-2004 Master 1: Evolutionary modelling

Evolution of sociality in a queenless ant (*Dinoponera quadricaps*). (supervisor: Minus van Baalen) Laboratoire de Fonctionnement et évolution des systèmes écologiques, Paris, France. Two months.

2001-2002 Undergraduate: animal and plant experiment

Shaking signal in an asian bee (*Apis florea*). (supervisor: Raghavendra Gahdagkar) Indian Institute of Science, Bangalore, India. Three months.

Autofertilisation in an endangered species (*Eryngium alpinum*). (supervisor: Irène Till-Bottraud) Laboratoire de biologie des populations d'altitude, Grenoble, France. Two months.

Additional formation

2006-2007 Cognition and Culture

Summer school. 2007 Budapest, Hungary.

2005-2006 Mind, Science and Metaphysics

Summer school. Institut Jean Nicod, Paris, France.

2004-2005 Interdisciplinary approaches in biology

Summer school. CNRS, Berder, France.

2002-2003 Mathematical modelling in Biology

Winter school. Ecole Normale Supérieure, Paris, France.

2001-2002 Methods in behavioural ecology

Winter school. Centre for ecological sciences, Indian institute of science, Bangalore, India.

Teaching experience

2009-2013 Occasional lecturer

MSc in cognitive science. Ecole Normale Supérieure, Paris, France.

Senior Honours class in Psychology. St Andrews University, St Andrews, UK.

Undergraduate class in History of Great Ideas. St Andrews University, St Andrews, UK.

2005-2008 Teaching Assistant in Biology (64h per year)

Methodology in science. Undergraduate courses. Université Jussieu, Paris, France.

2004-2008 Teacher in Biochemistry (32h per year)

Biochemistry for medical doctors. Undergraduate level. MEDISUP, Paris, France.

2003-2004 Agrégation

Life and earth science national teaching diploma.

Other academic experience

2010-Present Centre for Social Learning and Cognitive Evolution

Member of the Centre (<http://culture.st-and.ac.uk/solace/intro.html>)

2010-Present Scottish Primate Research Group

Member of the group (www.st-andrews.ac.uk/psychology/research/sprg/index.htm)

2008-Present International Cognition and Culture Institute

Associate founder and administrator of the International Cognition and Culture Institute (www.cognitionandculture.net)

Peer reviewed articles

Osiurak, F., De Oliveira, E., Navarro, J., Lesourd, M., Claidière, N., & Reynaud, E. (2016). Physical Intelligence Does Matter to Cumulative Technological Culture. *Journal of Experimental Psychology: General*, 145(8), 941-948.

Miton, H., Claidière, N., & Mercier, H. (2015). Universal cognitive mechanisms explain the cultural success of bloodletting. *Evolution and Human Behavior*, 36(4), 303-312.

Fagot, J., Marzouki, Y., Huguet, P., Gullstrand, J., & Claidière, N. (2015). Assessment of Social Cognition in Non-human Primates Using a Network of Computerized Automated Learning Device (ALDM) Test Systems. *JoVE*(99), e52798.

Claidière, N., Whiten, A., Mareno, M. C., Messer, E. J. E., Brosnan, S. F., Hopper, L. M., . . . McGuigan, N. (2015). Selective and contagious prosocial resource donation in capuchin monkeys, chimpanzees and humans. *Scientific reports*(5), 7631.

Bowler, M., Messer, E. J. E., Claidière, N., & Whiten, A. (2015). Mutual medication in capuchin monkeys – Social anointing improves coverage of topically applied anti-parasite medicines. *Scientific reports*, 5, 15030.

Claidière, N., Gullstrand, J., Latouche, A., & Fagot, J. (2015). Using Automated Learning Devices for Monkeys (ALDM) to study social networks. *Behavior research methods*, 1-11.

van de Waal, E., Claidière, N., & Whiten, A. (2015). Wild vervet monkeys copy alternative methods for opening an artificial fruit. *Animal Cognition*, 18(3), 617-627.

Claidière, N., Smith, K., Kirby, S., & Fagot, J. (2014). Cultural evolution of systematically structured behaviour in a non-human primate. *Proceedings of the Royal Society B: Biological Sciences*, 281(1797).

Claidière, N., Scott-Phillips, T. C., & Sperber, D. (2014). How Darwinian is cultural evolution? *Philosophical Transactions of the Royal Society B: Biological Sciences*, 369(1642).

Pasquaretta, C., Leve, M., Claidière, N., van de Waal, E., Whiten, A., MacIntosh, A. J. J., . . . Sueur, C. (2014). Social networks in primates: smart and tolerant species have more efficient networks. *Sci. Rep.*, 4.

Claidière, N., Bowler, M., Brookes, S., Brown, R., & Whiten, A. (2014). Frequency of Behavior Witnessed and Conformity in an Everyday Social Context. *PLoS ONE*, 9(6), e99874.

Claidière, N., Messer, Emily J. E., Hoppitt, W., & Whiten, A. (2013). Diffusion Dynamics of Socially Learned Foraging Techniques in Squirrel Monkeys. *Current Biology*, 23(13), 1251-1255.

- van de Waal, E., Claidière, N., & Whiten, A. (2013). Social learning and spread of alternative means of opening an artificial fruit in four groups of vervet monkeys. *Animal Behaviour*, 85(1), 71-76.
- Schel, A. M., Rawlings, B., Claidière, N., Wilke, C., Wathan, J. E. N., Richardson, J. O., . . . Slocombe, K. (2012). Network Analysis of Social Changes in a Captive Chimpanzee Community Following the Successful Integration of Two Adult Groups. *American Journal of Primatology*, 75(3), 254–266.
- Claidière, N., & Whiten, A. (2012). Integrating the study of conformity and culture in humans and nonhuman animals. *Psychological Bulletin*, 138(1), 126-145.
- Claidière, N., Kirby, S., & Sperber, D. (2012). Effect of psychological bias separates cultural from biological evolution. *Proceedings of the National Academy of Sciences*, 109(51), E3526. **[Comment]**
- Claidière, N., Bowler, M., & Whiten, A. (2012). Evidence for Weak or Linear Conformity but Not for Hyper-Conformity in an Everyday Social Learning Context. *PLoS ONE*, 7(2), e30970.
- Claidière, N., & André, J.-B. (2012). The Transmission of Genes and Culture: A Questionable Analogy. *Evolutionary Biology*, 39(1), 12-24.
- Claidière, N., & Sperber, D. (2010). Imitation explains the propagation, not the stability of animal culture. *Proceedings of the Royal Society B: Biological Sciences*, 277(1681), 651-659.
- Claidière, N., & Sperber, D. (2010). The natural selection of fidelity in social learning. *Communicative and integrative biology*, 3(4), 1-2.
- Claidière, N., Jraissati, Y., & Chevallier, C. (2008). A Colour Sorting Task Reveals the Limits of the Universalist/Relativist Dichotomy: Colour Categories Can Be Both Language Specific and Perceptual. *Journal of Cognition and Culture*, 3(4), 211-233.
- Sperber, D., & Claidière, N. (2008). Defining and explaining culture. *Biology and Philosophy*, 23(2), 283-292.
- Claidière, N., & Sperber, D. (2007). The role of attraction in cultural evolution. *Journal of Cognition and Culture*, 7(1), 89-111.
- Viciana, H., & Claidière, N. (2007). The animal variations: When mechanisms matter in accounting for function. *Behavioral and Brain Sciences*, 30(04), 424-425. **[Comment]**
- Sperber, D., & Claidière, N. (2006). Why modeling cultural evolution is still such a challenge. *Biological Theory*, 1(1), 20-22.

Book chapters

- Heintz, C., & Claidière, N. (2015). Current Darwinism in Social Science. In T. Heams, P. Huneman, G. Lecointre & M. Silberstein (Eds.), *Handbook of Evolutionary Thinking in the Sciences* (pp. 781-807): Springer Netherlands.
- De la psychologie évolutionniste à l'évolution culturelle. [From evolutionary psychology to cultural evolution] Claidière N. In Van der Henst, J.-B. & Mercier, H. (Eds.) *Evolution et cognition*. Grenoble: PUG. 2009
- Les darwinismes contemporains en sciences humaines [Contemporary Darwinisms in human sciences] Heintz C. and Claidière N. In Guillaume Lecointre, Philippe Huneman, Edouard Machery, Marc Silberstein, François Athane (Eds.) *Les mondes darwiniens*. Editions Syllepse. 2009

Grants and scholarships

2013 ANR PDOC (387 000€, PI)

Project: Attraction and selection in cultural evolution

2013 British Academy (10 000£, PI)

Origin and development of conformity in young children.

2012 Wellcome Trust (20 000£, associate)

Institutional Strategic Support Fund: Bridging to a Wellcome Trust 'Evolving Minds' Centre.

2012 ANR (235 416 €, associate)

Les interfaces entre culture, organisme, nature et société. PI Dominique Guillo

2011 Travel grant

Naturalistic Approaches to Culture workshop, Balatonvilágos, Hungary.

2009-2010 Fyssen Foundation Fellowship (25 000€, PI)

Post-doctoral study grant.

2009 Travel grant

Comparative Cognition conference, Leipzig, Germany.

2005-2008 PhD scholarship

Ministry for Research and Higher Education, France.

2005-2008 Teaching assistant grant

Université Pierre et Marie Curie, Paris, France.

2000-2005 Student scholarship

Ecole Normale Supérieure, Paris, France.

Additional competences

Software

Designing/coding experiments: E-prime, The Observer XT

Statistical analysis: SPSS, R, SocProg

Statistics

Non-parametric statistics

Non-independent statistics (Permutation test)

Non-linear models (Generalised linear (mixed) models and Generalised Estimating Equation)

Network statistics (Clustering, Sociogram, Mantel test, Eigenvector centrality)