

# Nicolas CLAUDIERE PhD CNRS

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**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**

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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

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## **Academic achievements**

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### **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 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.

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## **Professional experience**

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### **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 Bourguin) 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: evolution of plants and social insects**

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.

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**Teaching experience**

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**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.

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**PhD Students**

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**2020- Anthony Formaux**

Coordination, cooperation and competition in a group of Guinea baboons

**2019- Elliot Huguet (co-direction with Noël Nguyen)**

The emergence of social conventions in the categorisation of speech sounds

**2017-2020 Valeria Gelardi (co-direction with Alain Barrat)**

Analysis of animal social networks dynamics: from data collection to (in)stability detection

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## Professional societies

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### **2015-Present Cultural Evolution Society**

Member (<https://culturalevolutionsociety.org>)

### **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](http://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](http://www.cognitionandculture.net))

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## Peer reviewed articles (n = 40, in bold 4 most important papers in the last 5 years)

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Gelardi, V., Godard, J., Paleressompouille, D., Claidière, N., & Barrat, A. (2020). Measuring social networks in primates: wearable sensors versus direct observations. *Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 476(2236), 20190737. doi:10.1098/rspa.2019.0737

Altay, S., Claidière, N., & Mercier, H. (2020). It happened to a friend of a friend: inaccurate source reporting in rumour diffusion. *Evolutionary Human Sciences*, 2, e49. doi:10.1017/ehs.2020.53

**Meguerditchian, A., Marie, D., Margiotoudi, K., Roth, M., Nazarian, B., Anton, J.-L., & Claidière, N. (2020). Baboons (*Papio anubis*) living in larger social groups have bigger brains. *Evolution and Human Behavior*.**

Guillo, D., & Claidière, N. (2020). Do guide dogs have culture? The case of indirect social learning. *Humanities and Social Sciences Communications*, 7(1), 31. doi:10.1057/s41599-020-0515-3

Gelardi, V., Fagot, J., Barrat, A., & Claidière, N. (2019). Detecting social (in)stability in primates from their temporal co-presence network. *Animal Behaviour*, 157, 239-254. doi:10.1016/j.anbehav.2019.09.011

Mercier, H., Majima, Y., Claidière, N., & Léone, J. (2019). Obstacles to the spread of unintuitive beliefs. *Evolutionary Human Sciences*, 1, e10. doi:10.1017/ehs.2019.10

**Saldana, C., Fagot, J., Kirby, S., Smith, K., & Claidière, N. (2019). High-fidelity copying is not necessarily the key to cumulative cultural evolution: a study in monkeys and children. *Proceedings of the Royal Society B: Biological Sciences*, 286(1904), 20190729.**

**doi:10.1098/rspb.2019.0729**

Margiotoudi, K., Marie, D., Claidière, N., Coulon, O., Roth, M., Nazarian, B., . . . Meguerditchian, A. (2019). Handedness in monkeys reflects hemispheric specialization within the central sulcus. An in vivo MRI study in right- and left-handed olive baboons. *Cortex*. doi:<https://doi.org/10.1016/j.cortex.2019.01.001>

Fagot, J., Boë, L.-J., Berthomier, F., Claidière, N., Malassis, R., Meguerditchian, A., . . . Montant, M. (2019). The baboon: A model for the study of language evolution. *Journal of Human Evolution*, 126, 39-50. doi:<https://doi.org/10.1016/j.jhevol.2018.10.006>

Cauchoux, M., Chow, P. K. Y., van Horik, J. O., Atance, C. M., Barbeau, E. J., Barragan-Jason, G., . . . Morand-Ferron, J. (2018). The repeatability of cognitive performance: a meta-analysis. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 373(1756).

**Claidière, N., Amedon, G. K.-k., André, J.-B., Kirby, S., Smith, K., Sperber, D., & Fagot, J. (2018). Convergent transformation and selection in cultural evolution. *Evolution and Human Behavior*, 39(2), 191-202.**

O'Sullivan, E. P., Claidière, N., & Caldwell, C. A. (2017). Action-matching biases in monkeys (*Sapajus* spp.) in a stimulus–response compatibility task: Evaluating experience-dependent malleability. *Journal of Comparative Psychology*, 131(4), 337-347.

**Dumas, F., Fagot, J., Davranche, K., & Claidière, N. (2017). Other better versus self better in baboons: an evolutionary approach of social comparison. *Proceedings of the Royal Society B: Biological Sciences*, 284(1855).**

Claidière, N., Trouche, E., & Mercier, H. (2017). Argumentation and the Diffusion of Counter-Intuitive Beliefs. *Journal of Experimental Psychology: General*, 146(7), 1052-1066.

Claidière, N., Gullstrand, J., Latouche, A., & Fagot, J. (2017). Using Automated Learning Devices for Monkeys (ALDM) to study social networks. *Behavior research methods*, 1-11. doi:10.3758/s13428-015-0686-9

Blanchette, I., Marzouki, Y., Claidière, N., Gullstrand, J., & Fagot, J. (2017). Emotion-Cognition Interaction in Nonhuman Primates. *Psychological Science*, 28(1), 3-11.

Claidière, N., & Guillo, D. (2016). Bridging the Gap between the Life Sciences and the Social Sciences in the Case of Human/animal Relationships: An Interactionist and Evolutionary Perspective. *L'Année sociologique*, 66(2), 385-420.

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., Marenco, 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., 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.
- Sperber, D., & Claidière, N. (2006). Why modeling cultural evolution is still such a challenge. *Biological Theory*, 1(1), 20-22.

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## Book chapters & peer-reviewed comments

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- Claidière, N. (2020). Taking into account the wider evolutionary context of cumulative cultural evolution. *Behavioral and Brain Sciences*, 43, e160. doi:10.1017/S0140525X20000254 **[Commentary]**
- 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.
- 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. **[Commentary]**
- 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
- Viciana, H., & Claidière, N. (2007). The animal variations: When mechanisms matter in accounting for function. *Behavioral and Brain Sciences*, 30(04), 424-425. **[Commentary]**

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## Grants and scholarships

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### 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.