

## Piero Amodio



Born in Napoli (Italy) on 12/01/1987

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**Current Position:** Researcher (Ricercatore III° livello)

**Current Affiliation:**

Department of Biology and Evolution of Marine Organisms (BEOM), Stazione Zoologica Anton Dohrn, Napoli (Italy)

### Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Università degli Studi di Napoli 'Federico II', Napoli, Italy	Laurea Triennale (BSc)	2005-2010	Biological Sciences
Università degli Studi di Firenze, Firenze, Italy	Laurea Magistrale (MSc), Hons	2010-2013	Animal Behaviour (Biology)
Primate Station, Department of Anthropology, University of Zurich, Zurich, Switzerland	Traineeship	2012	Primate cognition
Department of Anthropology, University of Zurich, Zurich, Switzerland	Master of Science	2013-2015	Anthropology (Primateology)
Department of Psychology, University of Cambridge, Cambridge, UK	PhD	2016-2020	Psychology (Comparative Cognition)
Stazione Zoologica Anton Dohrn, Napoli, Italy	Visiting PhD student	2017, 2018	Animal Behaviour and Cognition
Stazione Zoologica Anton Dohrn, Napoli, Italy	Postdoc	2020-2022	Animal Behaviour and Cognition
Stazione Zoologica Anton Dohrn, Napoli, Italy	Researcher	2022 - present	Animal Behaviour and Cognition

## **Grants and awards**

2007-2008: Erasmus Scholarship for 1 year study exchange at University of Granada, Spain

2012: MSc Fees reduction award, University of Firenze, Italy

2013: Fieldwork Scholarship, University of Zurich, Switzerland

2015: Short Term Scientific Mission, CephInAction through COST Action FA1301

2016: Research Scholarship, Accademia dei Lincei

2017: Erasmus+ Traineeship Grant, EU

2017: Sidney Sussex College Research Fund, University of Cambridge, UK

2017: Dept. of Psychology Fieldwork Fund, University of Cambridge, UK

2017: Experimental Psychological Society Study Visit Grant

2017: Cambridge Philosophical Society Travel Grant

2018: Erasmus+ Traineeship Grant, EU

2018: Sidney Sussex College Research Fund, University of Cambridge, UK

2018: Dept. of Psychology Fieldwork Fund, University of Cambridge, UK

2018: Malacological Society of London Research Grant, UK

2018: Animal Behavior Society (ABS) Student Research Grant, USA

2019: Cambridge Philosophical Society Research Studentship

2019: Linnean Society of London Percy-Sladen Grant, UK

2019: National Geographic Early Career Grant

2020: Malacological Society of London Research Grant, UK

2020: Association for the Study of Animal Behaviour (ASAB) Research Grant

2020: The Explorer Club OceanX Grant

2020: Leverhulme Trust Study Abroad Studentship

2020: National Geographic Covid-19 Supplemental Support Grant

2022: Japan Meets Italian Scientist 2022

## **Other**

Member of the Association for the Study of Animal Behaviour (ASAB), British Ecological Society (BES), Association for Cephalopod Research (CephRes)

2019 – present: National Geographic Explorer

2021 – present: Member of the pool of early-career reviewer for *eLife*

2022 – present: Member of the Scientific Committee for Scientific and Public Aquaria of SZN

## Students' Supervision

Demonstrator in the 'Evolution and Behaviour' course (undergraduate level), University of Cambridge, UK

Supervisor of 2 undergraduate students in Psychology, University of Cambridge, UK

Co-supervisor of 1 MSc student (Università degli Studi 'Suor Orsola Benincasa', Italy), 1 BSc student (Università degli Studi di Firenze, Italy)

## Publications

Author of 12 ISI publications (Scholar h index: 8) and 2 book chapters

### *List of publications of the last 10 years:*

#### Peer-reviewed publications:

**Amodio P**, & Fiorito G (2022). A preliminary attempt to investigate mirror self-recognition in *Octopus vulgaris*. *Frontiers in Physiology*, 13:951808. doi: 10.3389/fphys.2022.95180812.

**Amodio P**, Farrar B, Krupenye C, Ostojić L, & Clayton NS (2021). Little evidence that Eurasian jays protect their caches by responding to cues about a conspecific's desire and visual perspective. *eLife*, 10: e69647. doi.org/10.7554/eLife.69647

**Amodio P**, Josef N, Shashar N, & Fiorito G (2021). Bipedal locomotion in *Octopus vulgaris*: a complementary observation and some preliminary considerations. *Ecology and Evolution*, 11:3679-3684. doi.org/10.1002/ece3.7328

**Amodio\* P**, Brea\* J, Farrar BG, Ostojić L, & Clayton NS (2021). Testing two competing hypotheses for Eurasian jays' caching for the future. *Scientific Reports*, 11:835. doi.org/10.1038/s41598-020-80515-7

Schnell AK, **Amodio P**, Boeckle M, & Clayton NS (2021). How intelligent is a cephalopod? Lessons from comparative cognition. *Biological Reviews*, 96: 162-178. doi.org/10.1111/brv.12651

**Amodio P**, Shigeno S, & Ostojić L (2020). Evolution of intelligence in cephalopods. *eLS*, 1: 77-84. doi.org/10.1002/9780470015902.a0029004.

**Amodio P**, Boeckle M, Jelbert S, Ostojić L, & Clayton NS (2020). How flexible is tool use in Eurasian jays (*Garrulus glandarius*)? *Animal Behavior and Cognition*, 7(3): 270-287. doi.org/10.26451/abc.07.03.02.2020

**Amodio P**, Fiorito G, Clayton NS, & Ostojić L (2019). Commentary: A Conserved Role for Serotonergic Neurotransmission in Mediating Social Behavior in Octopus. *Frontiers in Behavioral Neuroscience*, 13: 185. doi:10.3389/fnbeh.2019.00185

**Amodio P** (2019). Octopus intelligence: The importance of being agnostic. *Animal Sentience* 26(20). doi: 10.51291/2377-7478.1507

**Amodio P**, Boeckle M, Schnell AK, Ostojić L, Fiorito G, & Clayton NS (2019). Shell Loss in Cephalopods: Trigger for, or By-Product of, the Evolution of Intelligence? A Reply to Mollo et al. *Trends in Ecology and Evolution*, 34: 690–692. doi:10.1016/j.tree.2019.05.005.

**Amodio P**, Boeckle M, Schnell AK, Ostojić L, Fiorito G, & Clayton NS (2019). Grow Smart and Die Young: Why Did Cephalopods Evolve Intelligence? *Trends in Ecology and Evolution*, 34: 45-56. doi.org/10.1016/j.tree.2018.10.010.

**Amodio P**, Jelbert S, & Clayton NS (2018). The interplay between psychological predisposition and skill learning in the evolution of tool use. *Current Opinion in Behavioral Science*, 20: 130-137. doi.org/10.1016/j.cobeha.2018.01.002.

**Amodio P**, Andrews P, Salemme M, Ponte G, & Fiorito G (2014). The use of artificial crabs for testing predatory behavior and health in the octopus. *ALTEX*, 31: 494-499. doi.org/10.14573/altex.1401282

Josef N, **Amodio P**, Fiorito G, & Shashar N (2012). Camouflaging in a Complex Environment. Octopuses Use Specific Features of Their Surroundings for Background Matching. *PloS ONE*, 7:e37579. doi.org/10.1371/journal.pone.0037579

#### **Book chapters:**

Tricarico E, **Amodio P**, Ponte G, & Fiorito G (2014). Cognition and Recognition in the Cephalopod Mollusc *Octopus vulgaris*: Coordinating Interaction with Environment and Conspecifics. In *Biocommunication of Animals* (pp. 337-349). Springer Netherlands. doi.org/10.1007/978-94-007-7414-8\_19

**Amodio P**, & Fiorito G (2013). Observational and other types of learning in Octopus. In: Menzel, R. & Benjamin, P. (Eds.). *Invertebrate Learning and Memory*. Elsevier. doi.org/10.1016/B978-0-12-415823-8.00023-X