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Date of birth: 19 May 1987

Nationality: Italian

Languages: Italian, English, French

ACADEMIC EMPLOYMENT

- September 2018 – 2021** Research Fellow, Institute for Advanced Study of Toulouse, France
- January 2017 – July 2018** Postdoctoral researcher, Cognitive Evolution Group
Dept. of Psychology, University of Michigan, (July 2017-)
Dept. of Human Evolutionary Biology, Harvard University
(Jan-June 2017)
Advisor: Prof. Alexandra Rosati
- April 2016 – January 2017** Visiting postdoctoral fellow,
Dept. of Human Evolutionary Biology, Harvard University
Scholarship program “visiting period to a foreign institution”
sponsored by Sapienza University of Rome
External mentor: Prof. Alexandra Rosati

EDUCATION

- 2012-2016** Ph.D, Environmental and Evolutionary Biology, curriculum
Anthropology
Sapienza University of Rome
Advisors: Dr. Elsa Addessi and Prof. Giorgio Manzi
- 2010-2012** Master Degree, Ecobiology (*summa cum laude*)
Sapienza University of Rome
- 2006-2010** Bachelor Degree in Natural Sciences
Sapienza University of Rome

PUBLICATIONS

Papers in peer-reviewed international journals

- De Petrillo, F.**, Caroli, M., Gori, E., Micucci, A., Gastaldi, S., Bourgeois-Gironde, S., & Addessi, E. (2019). Evolutionary origins of money categorization and exchange: an experimental investigation in tufted capuchin monkeys (*Sapajus* spp.). *Animal cognition*, 1-18.
- Zoratto, F., Oddi, G., Gori, E., Micucci, A., **De Petrillo, F.**, Paglieri, F., ... & Addessi, E. (2018). Social modulation of risky decision-making in rats (*Rattus norvegicus*) and tufted capuchin monkeys (*Sapajus* spp.). *Behavioural Brain Research*, 347, 37-48.
- De Petrillo F.**, Tonachella G., Addessi E. (2017). Emotional correlates of probabilistic decision making in tufted capuchin monkeys (*Sapajus* spp.). *Animal Behaviour*, 129, 249-256.
- De Petrillo F.**, Micucci A., Gori E., Truppa V., Ariely D., Addessi E. (2015) Self-control depletion in tufted capuchin monkeys (*Sapajus* spp.): does delay of gratification rely on a limited resource? *Frontiers in Psychology*, section comparative psychology, 6, 1-12
- De Petrillo F.**, Gori E, Micucci A, Ponsi G, Paglieri F, Addessi E (2015). When is it worth waiting for? Food quantity, but not food quality, affects delay tolerance in tufted capuchin monkeys. *Animal Cognition*, 18(5), 1019-1029.
- De Petrillo F.**, M. Ventricelli, G. Ponsi, E. Addessi (2015). Do tufted capuchin monkeys play the odds? Flexible risk preferences in *Sapajus* spp. *Animal Cognition*, 18, 119-130.
- Paglieri F, Addessi E, **De Petrillo F.**, Laviola G, Mirolli M, Parisi D, Petrosino G, Ventricelli M, Zoratto F, Adriani W. (2014). Nonhuman gamblers: Lessons from rodents, primates, and robots. *Frontiers in Behavioral Neuroscience*, 8, 1-17.
- Addessi E, Bellagamba F, Delfino A, **De Petrillo F.**, Focaroli V, Macchitella L, Maggiorelli V, Pace B, Pecora G, Rossi S, Sbaffi A, Tasselli MI, Paglieri F. (2014). Waiting by mistake: Symbolic representation of rewards modulate intertemporal choice in capuchin monkeys (*Cebus apella*), preschool children and adult humans. *Cognition*, 130, 428-441.
- Addessi, E., Paglieri, F., Beran, M.J., Evans, T.A., Macchitella, L., **De Petrillo F.**, Focaroli, V. (2013). Delay Choice Versus Delay Maintenance: Different Measures of Delayed Gratification in Capuchin Monkeys (*Cebus apella*). *Journal of Comparative Psychology*, 127(4), 2-8
Featured in APA's Particularly Exciting Experiments In Psychology
- Ventricelli M., Focaroli V., **De Petrillo F.**, L. Macchitella, F. Paglieri, A. Addessi (2013). How capuchin monkeys (*Cebus apella*) behaviorally cope with increasing delay in a self-control task. *Behavioural Processes*, 100, 146-152

Chapters in Edited Volumes

De Petrillo, F., & Di Vincenzo F. (2018). An evolutionary perspective on primate social cognition. In: *Evolution of Primate Social Cognition* (Di Paolo, L.D; Di Vincenzo, F & De Petrillo, F. eds). Springer, Interdisciplinary Evolutionary Research, Number 4

Books

Di Paolo L., Di Vincenzo F., **De Petrillo F.** (Eds.) (2018). *Evolution of Primate Social Cognition*. Springer, Interdisciplinary Evolutionary Research, Number 4

Papers submitted and in preparation

De Petrillo F. & Rosati A.G. (under review). Rhesus macaques (*Macaca mulatta*) use probabilities to predict future events. *Evolution and Human Behavior*

De Petrillo F. & Rosati A.G. (under review). Ecological rationality: convergent decision-making in apes and capuchins. Invited paper, Society for the Quantitative Analysis of Behavior Special Issue in *Behavioural Processes*

De Petrillo F., Paoletti M., Bellagamba F., Manzi G., Paglieri F., Addessi E. (in prep). Is *Homo sapiens* always risk averse? Contextual factors modulate risk preferences in adult humans.

De Petrillo F. & Rosati A. (in prep). Rational decision-making in animals. Cambridge Handbook of Animal Cognition.

De Petrillo F. & Rosati A. (in prep). Do lemurs use logic to find the location of food? Inference by exclusion in ruffed lemurs (*Varecia spp.*) and Coquerel's sifaka (*Propithecus coquereli*)

Addessi, E., Quintiero, E., Gastaldi, S., **De Petrillo, F.**, Bourgeois-Gironde, S. **(in prep)**. Quality-quantity tradeoff in the acquisition of token preference by capuchin monkeys (*Sapajus spp.*)

Papers in peer-reviewed Italian journals

Paoletti, M., **De Petrillo, F.**, Bellagamba, F., Addessi, E. (2017) Emotional aspects of risky decision-making in a comparative perspective. *Sistemi Intelligenti* 29:249-270.

Addessi E., Albano M., **De Petrillo F.**, Laviola G., Mirolli M., Paglieri F., Parisi D., Petrosino G., Ventricelli M., Zoratto F., Adriani W. (2015). Basi neurobiologiche del gioco d'azzardo: il contributo integrato di psicobiologia, etologia cognitiva e robotica. *Sistemi Intelligenti*, 27(3), 561-614.

Addessi E., **De Petrillo F.** & Paglieri F. (2014). Which factors affect the evolution of delay tolerance in non-human primates? A critical review. *Atti dell'XI Convegno dell'Associazione*

Italiana di Scienze Cognitive (M. Cruciani & A. Rega eds.). *Giornale italiano di neuroscienze psicologia e riabilitazione*, anno 1, vol. 5, 27-31.

De Petrillo F., Gori E., Micucci A., Ponsi G., Paglieri F. & Addessi E. (2014). Quando vale la pena aspettare? Ruolo di quantità, qualità e novità del cibo sulla capacità di attesa nel cebo dai cornetti (*Sapajus* spp.), una scimmia sudamericana. Atti dell'XI Convegno dell'Associazione October 2017 Italiana di Scienze Cognitive (a cura di M. Cruciani & A. Rega). *Giornale italiano di neuroscienze psicologia e riabilitazione*, anno 1, vol. 5, 116-119.

Micucci A., Gori E., Truppa V., **De Petrillo F.**, Ariely D. & Addessi E. (2014). Ruolo del carico cognitivo e della sazietà sulla capacità di ritardare la gratificazione nel cebo dai cornetti (*Sapajus* spp.). Atti dell'XI Convegno dell'Associazione Italiana di Scienze Cognitive (M. Cruciani & A. Rega eds.). *Giornale italiano di neuroscienze psicologia e riabilitazione*, anno 1, vol. 5, 254-257.

CONFERENCES PRESENTATION

De Petrillo F. & Rosati A. (2018). Rhesus macaques (*Macaca mulatta*) use probabilities to predict future events. International Primatological Society, Nairobi, Kenya.

De Petrillo F. & Addessi E. (2018). Beat the dealer: decision-making under risk in brown tufted capuchin monkeys (*Sapajus* spp.). International Primatological Society, Nairobi, Kenya.

De Petrillo F., Micucci A., Gori E., Bourgeois-Gironde S., Addessi E. (2016). Evolutionary origins of money categorization: an experiment in capuchin monkeys (*Sapajus* spp.). Talk at the Primate Day (organized by the Italian Primatological Society), Florence (Italy).

Oddi G., **De Petrillo F.**, Gori E., Micucci A., Paglieri F., Addessi E. (2016). Do social influences affect risk preferences in tufted capuchin monkeys (*Sapajus* spp.)? Talk at the Primate Day (organized by the Italian Primatological Society), Florence, Italy

De Petrillo F., Gori E., Micucci A., Ponsi G., Paglieri F., Addessi E. (2015). Food quantity, but not food quality, affects temporal preferences of capuchin monkeys (*Sapajus* spp.) in a delay choice task. Talk at the VI Conference of the European Federation of Primatologists (EFP), Rome, Italy (**BEST PAPER PRIZE**)

De Petrillo F., Paoletti M., Paglieri F., Bellagamba F., Addessi E. (2015). Dealing with uncertainty: risk preferences in tufted capuchin monkeys and human children. Poster at the Workshop "The nature and Origins of Human Cognition" Berlin School of Mind and Brain, Berlin, Germany

De Petrillo F., Paoletti M., Bellagamba F., Paglieri F., Addessi E. (2015) Comparative approach at the study of risk propensity in *Homo sapiens*. Talk at the XXVI Conference of the Italian Society of Ethology, Parma, Italy

- De Petrillo F.**, Gori E., Micucci A., Ponsi G., Paglieri F., Addressi E. (2014) When is it worth waiting for? Role of the quantity, quality and novelty of the reward on capuchin monkeys delay tolerance. Talk at the Conference of the Italian Society of Cognitive Science, Rome, Italy
- Addressi E., **De Petrillo F.**, Paglieri F. (2014). Which factors affect the evolution of delay tolerance in non-human primates? A critical review. Talk at the Conference of the Italian Society of Cognitive Science, Rome, Italy
- Micucci A., Gori E., Truppa V., **De Petrillo F.**, Ariely D., Addressi E.(2014). Role of cognitive and energy depletion on delay tolerance in tufted capuchin monkeys (*Sapajus* spp.). Talk at the Primate Day (organized by the Italian Primatological Society, API), Florence, Italy (**BEST PAPER PRIZE**)
- De Petrillo F.**, Paoletti M., Ventricelli M., Castano M.L., Ponsi G., Paglieri F., Bellagamba F., Addressi E. (2014). Relation between delay of gratification and risk propensity in capuchin monkeys (*Sapajus* spp.) and preschool children. Invited talk at the Symposium “Introduction to an economic education” (organizer: A. Marchetti). XXVII Conference of the Italian Association of Psychology, Developmental Psychology section, Arcavacata di Rende (CS), Italy.
- De Petrillo F.**, Ventricelli M., Ponsi G., Addressi E. (2014). Do capuchins play the lottery? Decision making under risk in *Sapajus* spp. Talk at the XXV Conference of the International Primatological Society, Hanoi, Vietnam.
- De Petrillo F.**, Focaroli V., Macchitella L., Paglieri F., Addressi E. (2013). Self-control measurement: studies on capuchin monkeys. Invited talk at the Symposium ‘Make decision about future: interdisciplinary perspectives to the study of intertemporal choices’ X Conference of the Italian Association of Cognitive Science, Naples, Italy.
- De Petrillo, F.**, Ventricelli, M., Ponsi, G., Paglieri, F., Addressi, E. (2013). Are capuchins gamblers? Decision-making under risk in *Sapajus* spp. Talk at the XXI Conference of the Italian Association of Primatology, Asti, Italy, 17-19/4/2013 (**BEST PAPER PRIZE**)
- De Petrillo, F.**, Ventricelli, M., Ponsi, G., Paglieri, F., Addressi, E. (2013). Waiting for the larger amount: do capuchin monkeys (*Sapajus apella*) show a magnitude effect in a delay choice task? Talk at the V Conference of the European Federation of Primatologists (EFP), Antwerpen, Belgium.
- Ventricelli M., **De Petrillo F.**, Ponsi G., Paglieri F., Addressi E. (2013). Risk proneness in capuchin monkeys (*Sapajus apella*): does feeding ecology play a role? Talk at the V Conference of the European Federation of Primatologists (EFP), Antwerpen, Belgium.
- De Petrillo F.**, Ponsi G., Delfino A., Addressi E. & Paglieri F. (2013). Intertemporal choice, risk preferences, and social dominance: an experimental investigation. Poster at the Workshop ‘Context dependent consumer decision-making: An interdisciplinary inquiry’. Trento, Italy.

- De Petrillo F.**, Ponsi G., Cianciullo S., Macchitella L., Paglieri F., Addessi E. (2012) Are capuchin monkeys tempted by delicacies? The role of food quality on performance in a delay choice task. Poster at the Rovereto Workshop on Cognition and Evolution (COGEVO), Rovereto, Italy.
- Focaroli V., **De Petrillo F.**, Paglieri F. & Addessi E. (2011). Why capuchin monkeys (*Cebus apella*) have the patience of a saint? A comparative analysis of five primate species' performance in the intertemporal choice task. Talk at the XX the Italian Association of Primatology, Parco Natura Viva, Bussolengo (VR), Italy.
- Ventricelli M., Focaroli V., **De Petrillo F.**, Macchitella L., Paglieri F. & Addessi E. (2011). Response latency and self-directed behaviours by capuchin monkeys in an intertemporal choice task. Talk at the XX Conference of the Italian Association of Primatology (API), Parco Natura Viva, Bussolengo (VR), Italy.
- De Petrillo F.**, Focaroli V., Macchitella L., Rossi S., Paglieri F. & Addessi E. (2011). Delay discounting for primary and secondary rewards in capuchin monkeys. Talk at the XX Conference of the Italian Association of Primatology, Parco Natura Viva, Bussolengo (VR), Italy.
- Macchitella L., **De Petrillo F.**, Focaroli V., Evans T., Beran M., Paglieri F. & Addessi E. (2011). Does preference for a larger delayed reward necessarily indicate self-control? An evaluation of the validity of the intertemporal choice task in capuchin monkeys. Poster presented at the XX Conference of the Italian Association of Primatology, Parco Natura Viva, Bussolengo (VR), Italy (**POSTER PRIZE WINNER**)

Seminar and conference organization

- 2019 Co-organizer. Toulouse Economics and Biology Workshop, May 23-24
Co-organizer. Pyrenean Interdisciplinary Research Event, second edition, February 6-9
- 2018- present Co-organizer. IAST Tuesday Lunch seminar series

GRANTS, FELLOWSHIPS AND AWARDS

Grants

- 2014-2015** Relationship between the capacity of inhibition and risk propensity in preschool children, Sapienza University of Rome (Collaborator; PI: F. Bellagamba) Euro 3,000
- 2013-2014** Biodiversity Common Good (communication science project), founded by Italian Ministry of University and Research, Euro 15,000

2013 Travel grant from the Italian Association of Primatology (API) to attend the V Conference of the European Federation of Primatologists (EFP), Antwerpen (Belgium)

Fellowships

2016-2017 University scholarship “Scholarship for a visiting period to a foreign institution” Sapienza University of Rome. Euro 15,480

2012-2015 Collaboration with Prof. Dan Ariely on research studies regarding development and evolution of self-control in the course of primate evolution, Duke University, Durham, NC, \$50,000

2011-2012 University scholarship “Lazioadisu” Sapienza University of Rome, Euro 2,600

Awards

2015 Best oral communication at the VI Conference of the European Federation of Primatologists (EFP), Rome (Italy) 25-28/8/2015

2013 Best oral communication at XXI API Conference (Asti April 17-19, 2013) Andrea Marconato award for outstanding master graduates in Biology. Istituto Veneto di Scienze Lettere e Arti. Euro 1,000

TEACHING EXPERIENCE AND INVITED SEMINARS

2018 **Invited speaker:** ‘Economic behaviour of non-human primates’, Villa Finaly Workshop organized by Université Paris II & Ecole Normale Supérieure, Florence

2018 **Invited speaker:** ‘What is certain in life? Decision-making under risk in nonhuman primates’, Laboratoire Evolution & Diversité Biologique, Université Toulouse III, Paul Sabatier, Toulouse

2017 **Guest lecture:** “Decision-making in capuchin monkeys” in Human Cognitive Evolution (taught by Prof. Alexandra Rosati), Department of Psychology, University of Michigan, Ann Arbor, USA.

2017 **Invited seminar:** “Surviving in an uncertain world: Decision-making under risk in non human primates” Decision Consortium, Department of Psychology, University of Michigan, Ann Arbor, USA.

2015 **Lecture:** “Scientific research and science communication”(with E. Visalberghi). Training course for teachers. Accademia Nazionale dei Lincei, Rome, Italy,

2015 **Guest lecture:** “Developmental Psychology: theories and methods” (taught by. F. Bellagamba), Department of Psychology, University Sapienza, Rome, Italy

2014 **Invited seminar:** “In search of ecological rationality in decision making over time and under risk: from non-human primates to human primates.” Department of Anthropology, Museum of Natural History , Paris, France.

Mentorship

2017 Laura Lewis, graduate student, Department of Human Evolutionary Biology, Harvard University. (primary mentor: Prof. Alexandra Rosati). The evolutionary origins of perception of randomness in rhesus macaques.

2017 Hayoung Chang, honors thesis undergraduate, Dept. of Organismal and Evolutionary Biology, Harvard (primary mentor Prof. Alexandra Rosati). Developmental change in rhesus monkey reward sensitivity

2014-2015 Gabriele Oddi, master’s student, Department of Human and Animal Biology, University Sapienza of Rome (primary mentor Dr. Elsa Addessi). Master thesis: Social modulation of risky decision-making in rats (*Rattus norvegicus*) and tufted capuchin monkeys (*Sapajus* spp.). Current position: Internship at the Unit of Cognitive Primatology, Rome

2014 Giordana Tonachella. Internship, undergraduate student, Unit of Cognitive Primatology, Rome. Risk tolerance and emotional responses in capuchin monkeys. Current position: master student, University of Turin.

2013-2014 Emanuele Gori, master’s student, Department of Human and Animal Biology, University Sapienza of Rome (primary mentor Dr. Elsa Addessi). Master thesis: Effect of the magnitude of reward on the ability of delay gratification in capuchin monkeys (*Sapajus* spp.)

2013-2014 Antonia Micucci, master’s student, Department of Biology, curriculum Animal Behaviour, University of Florence (primary mentor Dr. Elsa Addessi). Master Thesis: “Role of cognitive and energy depletion on delay tolerance in tufted capuchin monkeys (*Sapajus* spp.). Current position: Phd candidate Department of Psychology, University of Bologna

PROFESSIONAL SOCIETIES

2014-on IPS (International Primatological Society), Member

2013-on AISC (Associazione Italiana di Scienze Cognitive), Member

2010-on API (Italian Association of Primatology), Member

RESEARCH ACTIVITIES

- 2017-present** Cognitive studies in free-ranging Barbary macaques. Trentham Monkey Forest, UK with Prof. Alexandra Rosati
- 2017-present** Cognitive studies in lemurs. Duke Lemur Center, Durham, NC, USA with Prof. Alexandra Rosati
- 2016 – present** Cognitive studies in free-ranging rhesus macaques. Cayo Sanatiago Field Station, PR, with Prof. Alexandra Rosati
- 2012-2015** Influence of cognitive and energy depletion on self-control in captive tufted capuchin monkeys. Collaboration with Prof. Dan Ariely, Duke University, Durham, NC.
- 2009-present** Cognitive studies on economic decision-making and symbolic representation in a captive population of brown tufted capuchin monkeys (self-control ability and risky choices). Unit of Unit of Cognitive Primatology, National Research Council, Italy, with Dr. Elsa Addessi.
- 2010 - 2016** Cognitive studies on self-control and risk propensity in preschool children. Department of Dynamic and Clinical Psychology, Sapienza University of Rome, with Prof. Francesca Bellagamba
- 2010 -2016** Cognitive studies on self-control and risk propensity in adult humans. Institute of Cognitive Sciences and Technologies, National Research Council, Rome, Italy, with Drs. Elsa Addessi and Fabio Paglieri

REVIEWER

Journal: *Animal Cognition*, *Proceeding of the Royal Society*, *Journal of Comparative Psychology*, *Learning & Behaviour*

SCIENCE OUTREACH ACTIVITIES

- 2017** “How do scientist study animal behaviour?” talk at FEMMES (Females Excelling More in Math, Engineering and Science)
- 2017 - 2018** Science Communication Fellow, Museum of Natural History, University of Michigan, Ann Arbor, USA
- 2016** Guest lecture for the project “La Scienza a Scuola (science in the school)”, Zanichelli.

- 2015 – 2016** Coordinator for the city of Rome of the “Pint of Science” festival.
- 2013-2014** Scientific manager of the project “Biodiversity Common Good”, funded by the Italian Ministry for Education (MIUR)
- 2014-2015** Scientific manager of the project “The reed queen: how plant and animals chase each other”, primary school “Bonghi” Rome, Italy
- 2013-2014** Scientific manager of the project “Observing and understanding animals’ behaviour”, primary school “Bonghi” Rome, Italy
- 2014** Editing of the scientific TV program “Nautilus Scienza” Rai Scuola, Rome, Italy
- 2013** Winner of the regional competition of FameLab Italia 2013
Talk at the opening event of MUSE, Science Museum of Trento, Italy
Talk at “Light 2013-Turn on the light of science”, Rome, Italy