

## Francesca De Petrillo

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Google Scholar profile: [http://bit.ly/FdP\\_goo\\_sch](http://bit.ly/FdP_goo_sch)

Nationality: Italian  
Languages: Italian, English, French

### RESEARCH FOCI

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Comparative psychology; Cognition; Primatology; Human evolutionary biology; Decision-making; Ethology

### ACADEMIC EMPLOYMENT

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2018 – 2021	<b>Research Fellow</b> , UT1 Capitole and Institute for Advanced Study in Toulouse, France
2017 – 2018	<b>Postdoctoral researcher</b> , Dept. of Psychology, University of Michigan (July 2017)
2017	<b>Postdoctoral researcher</b> , Dept. of Human Evolutionary Biology, Harvard University
2016 – 2017	<b>Visiting postdoctoral fellow</b> , Dept. of Human Evolutionary Biology, Harvard University Scholarship program “visiting period to a foreign institution” sponsored by Sapienza University of Rome

### EDUCATION

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2016	Ph.D, Environmental and Evolutionary Biology, curriculum Anthropology Sapienza University of Rome
2012	Master Degree, Ecobiology ( <i>summa cum laude</i> ) Sapienza University of Rome
2010	Bachelor Degree in Natural Sciences Sapienza University of Rome

## PUBLICATIONS

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### *Papers in peer-reviewed international journals*

- In revision    **De Petrillo F.**, Paoletti M., Bellagamba F., Manzi G., Paglieri F., Addressi E. Contextual factors modulate risk preferences in adult humans. *Behavioural Processes*
- In press        **De Petrillo F.** & Rosati A. Logical inferences from visual and auditory information in ruffed lemurs and sifakas. *Animal Behaviour*
- 2019            **De Petrillo F.** & Rosati A.G. Rhesus macaques (*Macaca mulatta*) use probabilities to predict future events. *Evolution and Human Behavior*, 40, 436-446
- 2019            **De Petrillo F.** & Rosati A.G. Ecological rationality: convergent decision-making in apes and capuchins. Invited paper, Society for the Quantitative Analysis of Behavior Special Issue in *Behavioural Processes*, 164, 201-213
- 2019            **De Petrillo, F.**, Caroli, M., Gori, E., Micucci, A., Gastaldi, S., Bourgeois-Gironde, S., & Addressi, E. Evolutionary origins of money categorization and exchange: an experimental investigation in tufted capuchin monkeys (*Sapajus* spp.). *Animal cognition*, 1-18
- 2018            Zoratto, F., Oddi, G., Gori, E., Micucci, A., **De Petrillo, F.**, Paglieri, F., ... & Addressi, E. Social modulation of risky decision-making in rats (*Rattus norvegicus*) and tufted capuchin monkeys (*Sapajus* spp.). *Behavioural Brain Research*, 347, 37-48
- 2017            **De Petrillo F.**, Tonachella G., Addressi E. Emotional correlates of probabilistic decision making in tufted capuchin monkeys (*Sapajus* spp.). *Animal Behaviour*, 129, 249-256
- 2015            **De Petrillo F.**, Micucci A., Gori E., Truppa V., Ariely D., Addressi E. 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
- 2015            **De Petrillo F.**, Gori E, Micucci A, Ponsi G, Paglieri F, Addressi E. 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
- 2015            **De Petrillo F.**, M. Ventricelli, G. Ponsi, E. Addressi (2015). Do tufted capuchin monkeys play the odds? Flexible risk preferences in *Sapajus* spp. *Animal Cognition*, 18, 119-130

- 2014 Paglieri F, Addessi E, De **Petrillo F.**, Laviola G, Mirolli M, Parisi D, Petrosino G, Ventricelli M, Zoratto F, Adriani W. Nonhuman gamblers: Lessons from rodents, primates, and robots. *Frontiers in Behavioral Neuroscience*, 8, 1-17
- 2014 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. Waiting by mistake: Symbolic representation of rewards modulate intertemporal choice in capuchin monkeys (*Cebus apella*), preschool children and adult humans. *Cognition*, 130, 428-441.
- 2013 Addessi, E., Paglieri, F., Beran, M.J., Evans, T.A., Macchitella, L., **De Petrillo F.**, Focaroli, V. 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**
- 2013 Ventricelli M., Focaroli V., **De Petrillo F.**, L. Macchitella, F. Paglieri, A. Addessi. How capuchin monkeys (*Cebus apella*) behaviorally cope with increasing delay in a self-control task. *Behavioural Processes*, 100, 146-152

*Chapters in Edited Volumes*

- In press **De Petrillo, F.** & Rosati, A.G. Decision-making in animals: rational choices and adaptive strategies. To appear in: Cambridge Handbook of Animal Cognition (A. Kaufman, J. Call, & J. Kaufman, eds.) Cambridge: Cambridge University Press
- 2018 **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*

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

*Papers in preparation*

- In prep Paoletti, M., Bellagamba, F., Gagliardi, R..., **De Petrillo F.**, Addessi E. Decision-making under risk and experienced regret in preschoolers and school-aged children.
- In prep **De Petrillo F.** & Rosati A. Primate decision-making under uncertainty and the roots of human economic behavior. Special issue “Existence and prevalence of economic behaviours among non-human primates”, *Philosophical Transactions B*
- In prep Addessi, E., Quintiero, E., Gastaldi, S., **De Petrillo, F.**, Bourgeois-Gironde, S. Quality-quantity tradeoff in the acquisition of token preference by capuchin monkeys (*Sapajus* spp.)
- In prep Rossi F., Gastaldi S., **De Petrillo F.**, Addessi E. Decision-Making under risk and regret-like emotions in tufted capuchin monkeys (*Sapajus* spp.)

*Papers in peer-reviewed Italian journals*

- 2017 Paoletti, M., **De Petrillo, F.**, Bellagamba, F., Addessi, E. Emotional aspects of risky decision-making in a comparative perspective. *Sistemi Intelligenti* 29:249-270
- 2015 Addessi E., Albano M., **De Petrillo F.**, Laviola G., Mirolli M., Paglieri F., Parisi D., Petrosino G., Ventricelli M., Zoratto F., Adriani W. Basi neurobiologiche del gioco d'azzardo: il contributo integrato di psicobiologia, etologia cognitiva e robotica. *Sistemi Intelligenti*, 27(3), 561-614
- 2014 Addessi E., **De Petrillo F.** & Paglieri F. 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
- 2014 **De Petrillo F.**, Gori E., Micucci A., Ponsi G., Paglieri F. & Addessi E. 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
- 2014 Micucci A., Gori E., Truppa V., **De Petrillo F.**, Ariely D. & Addessi E. 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

*Other publications*

- 2019 **De Petrillo F.**, Nicolini Y., Ventricelli, M. Il segreto nei primati. *Psiche*, Vol. 6, 477-488, Società editrice il Mulino

**CONFERENCES PRESENTATION**

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- 2020 **De Petrillo F.** & Rosati A. Inferential reasoning from visual and auditory information in two species of lemur. Accepted as a talk at The Joint Meeting of IPS and SLAPrim in Quito, Ecuador, 16-22 August 2020
- 2019 Rossi F., Gastaldi S., **De Petrillo F.**, Addessi E. Decision-Making under risk and regret-like emotions in tufted capuchin monkeys (*Sapajus* spp.) Talk at the European Federation of Primatology and the Primate Society of Great Britain 2019 International Conference, Oxford, UK.
- 2019 Ciaccia B., Gastaldi S., Brosnan S., **De Petrillo F.**, Addessi E. Does energy budget manipulation affect risk preferences in tufted capuchin monkeys (*Sapajus* spp.)? Poster at the European Federation of Primatology and the Primate Society of Great Britain 2019 International Conference, Oxford, UK.
- 2019 **De Petrillo F.** Rhesus macaques (*Macaca mulatta*) use probabilities to predict future events. Talk at the 14th Annual Conference of the European Human Behaviour and Evolution Association, Toulouse, France.
- 2018 **De Petrillo F.** & Rosati A. Rhesus macaques (*Macaca mulatta*) use probabilities to predict future events. Talk at the International Primatological Society, Nairobi, Kenya.
- 2018 **De Petrillo F.** & Addessi E. (2018). Beat the dealer: decision-making under risk in brown tufted capuchin monkeys (*Sapajus* spp.). Talk at the International Primatological Society, Nairobi, Kenya.
- 2016 **De Petrillo F.**, Micucci A., Gori E, Bourgeois-Gironde S., Addessi E. 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).
- 2016 Oddi G., **De Petrillo F.**, Gori E, Micucci A, Paglieri F., Addessi E. 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.

- 2015 **De Petrillo F.**, Gori E., Micucci A., Ponsi G., Paglieri F., Addessi E. 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**).
- 2015 **De Petrillo F.**, Paoletti M., Paglieri F., Bellagamba F., Addessi E. 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.
- 2015 **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.
- 2014 **De Petrillo F.**, Gori E., Micucci A., Ponsi G., Paglieri F., Addessi E. 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.
- 2014 Addessi E., **De Petrillo F.**, Paglieri F. 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.
- 2014 Micucci A., Gori E., Truppa V., **De Petrillo F.**, Ariely D., Addessi E. 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**).
- 2014 **De Petrillo F.**, Paoletti M., Ventricelli M., Castano M.L., Ponsi G., Paglieri F., Bellagamba F., Addessi E. 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.
- 2014 **De Petrillo F.**, Ventricelli M., Ponsi G., Addessi E. Do capuchins play the lottery? Decision making under risk in *Sapajus* spp. Talk at the XXV Conference of the International Primatological Society, Hanoi, Vietnam.
- 2013 **De Petrillo F.**, Focaroli V., Macchitella L., Paglieri F., Addessi E. 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.

- 2013 **De Petrillo, F.**, Ventricelli, M., Ponsi, G., Paglieri, F., Addessi, E. 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**).
- 2013 **De Petrillo, F.**, Ventricelli, M., Ponsi, G., Paglieri, F., Addessi, E. 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.
- 2013 Ventricelli M., **De Petrillo F.**, Ponsi G., Paglieri F., Addessi E. 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.
- 2013 **De Petrillo F.**, Ponsi G., Delfino A., Addessi E. & Paglieri F. Intertemporal choice, risk preferences, and social dominance: an experimental investigation. Poster at the Workshop ‘Context dependent consumer decision-making: An interdisciplinary inquiry’. Trento, Italy.
- 2012 **De Petrillo F.**, Ponsi G., Cianciullo S., Macchitella L., Paglieri F., Addessi E. 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.
- 2011 Focaroli V., **De Petrillo F.**, Paglieri F. & Addessi E. Why capuchins 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.
- 2011 Ventricelli M., Focaroli V., **De Petrillo F.**, Macchitella L., Paglieri F. & Addessi E. 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.
- 2011 **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.
- 2011 Macchitella L., **De Petrillo F.**, Focaroli V., Evans T., Beran M., Paglieri F. & Addessi E. 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**

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

## **GRANTS, FELLOWSHIPS AND AWARDS**

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### *Grants*

- Submitted RNA - Risk attitude and Norm-Adherence during the COVID-19 pandemic. Flash call COVID-19, ANR Agence Nationale de la Recherche, (PI) € 21,924
- Submitted TEAM-3PP – Testing Evolutionary Alternative Models of Third-party Punishment: A multidisciplinary approach, IAST multidisciplinary prize (Co-PI), € 25,150
- 2015 Relationship between the capacity of inhibition and risk propensity in preschool children, Sapienza University of Rome (Collaborator; PI: F. Bellagamba) € 3,000
- 2013-2014 Biodiversity Common Good (communication science project), founded by Italian Ministry of University and Research, € 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. € 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, € 2,600

*Awards*

2015 Best oral communication at the VI Conference of the European Federation of Primatologists (EFP), Rome (Italy) 25-28/8/2015 € 300,00

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. € 1,000

**TEACHING EXPERIENCE AND INVITED SEMINARS**

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2020 **Invited seminar:** Primate Centre of Strasbourg University, France. “Unraveling the evolution of human decisions strategies”

2020 **Guest lecture:** Toulouse School of Economics, Toulouse, France. The evolutionary origins of trading: token economy in non-human primates” in The Evolution of Economic Behavior (taught by. Prof. Paul Seabright)

2020 **Invited seminar:** Tuesday Lunch seminar series at the Institute of Advanced Study in Toulouse, France. “How does cognition evolve? A comparative analysis of lemur intelligence”

2019 **Guest lecture:** Toulouse School of Economics, Toulouse, France. “A comparative approach to human cognitive evolution” in The Evolution of Economic Behavior (taught by. Prof. Paul Seabright)

2019 **Invited speaker (semi-plenary).** European Meeting of the Economic Science Association, Dijon, France. “The evolutionary root of human decision-making under risk”.

2019 **Invited speaker:** The 2019 North Carolina Cognition Conference - NC State University, USA. “Ecological variation in non-human primates decision-making.”

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

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

- 2017 **Guest lecture:** Department of Psychology, University of Michigan, Ann Arbor, USA. “Decision-making in capuchin monkeys” in Human Cognitive Evolution (taught by. Prof. Alexandra Rosati)
- 2017 **Invited seminar:** Decision Consortium, Department of Psychology, University of Michigan, Ann Arbor, USA. “Surviving in an uncertain world: Decision-making under risk in non-human primates”
- 2015 **Lecture:** Accademia Nazionale dei Lincei, Rome, Italy. Training course for teachers. “Scientific research and science communication” (with E. Visalberghi).
- 2015 **Guest lecture:** Department of Psychology, University Sapienza, Rome, Italy “Developmental Psychology: theories and methods” (taught by. F. Bellagamba)
- 2014 **Invited seminar:** Department of Anthropology, Museum of Natural History, Paris, France. “In search of ecological rationality in decision making over time and under risk: from non-human primates to human primates.”

## MENTORSHIP

- 2019 - 2020 Parvathy Nair, honors thesis undergraduate, Department of Psychology, University of Michigan. *Evolution of cognitive flexibility in lemur.*
- 2017 Laura Lewis, graduate student, Department of Human Evolutionary Biology, Harvard University. *The evolutionary origins of perception of randomness in rhesus macaques.*
- 2017 Hayoung Chang, honors thesis undergraduate, Dept. of Organismal and Evolutionary Biology, Harvard. *Developmental change in rhesus monkey reward sensitivity*
- 2014 - 2015 Gabriele Oddi, master thesis, Department of Human and Animal Biology, University Sapienza of Rome. *Social modulation of risky decision-making in rats (*Rattus norvegicus*) and tufted capuchin monkeys (*Sapajus spp.*)*
- 2014 Giordana Tonachella. Internship Unit of Cognitive Primatology, Rome. *Risk tolerance and emotional responses in capuchin monkeys.*
- 2013 - 2014 Emanuele Gori, master thesis, Department of Human and Animal Biology, University Sapienza of Rome. Master thesis: *Effect of the magnitude of reward on the ability of delay gratification in capuchin monkeys (*Sapajus spp.*)*
- 2013 - 2014 Antonia Micucci, master thesis, Department of Biology, curriculum Animal Behaviour, University of Florence. *Role of cognitive and energy depletion on delay*

*tolerance in tufted capuchin monkeys (Sapajus spp.).*

## **PROFESSIONAL SOCIETIES**

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- 2020-on Evolutionary Human Sciences, Member
- 2014-on IPS (International Primatological Society), Member
- 2013-on AISC (Associazione Italiana di Scienze Cognitive), Member
- 2010-on API (Italian Association of Primatology), Member

## **MEDIA**

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- 2020 Featured research, APA Monitor: “What animal minds can tell us about our own”
- 2019 Featured research, Galileo: “I cebi danno lezione di economia”
- 2019 Featured research, Il Sole 24 ore: “Il senso dei primati per il denaro: usano oggetti come monete”
- 2015 Featured research, Repubblica: “Alle scimmie piace il rischio. Ma non l’azzardo”

## **REVIEWER**

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*Journal: Animal Cognition, Animal Behaviour, Proceeding of the Royal Society, Journal of Comparative Psychology, Learning & Behaviour, Cognitive Science, Journal of Behavioral Decision Making, Behavioural Ecology and Sociobiology*

## **SCIENCE OUTREACH ACTIVITIES**

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- 2019 Summer camp of the Duke Lemur Center, NC, USA  
“How do lemurs think?”
- 2017 FEMMES (Females Excelling More in Math, Engineering and Science), Ann Arbor, USA “How do scientist study animal behaviour?”
- 2017 - 2018 Science Communication Fellow, Museum of Natural History, University of Michigan, Ann Arbor, USA
- 2016 La Scienza a Scuola (science in the school)”, Zanichelli. Lecturer

- 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 show “Nautilus Scienza” Rai Scuola, Italian National Television
- 2013                   Winner of the regional competition of FameLab Italia
- 2013                   Talk at the opening event of MUSE, Science Museum of Trento, Italy
- 2013                   Talk at “Light 2013-Turn on the light of science”, Rome, Italy