

Emmanuelle Pouydebat – CV
Research Director – CNRS/MNHN/MECADEV UMR 7179
50 years old, 1 child (8 years old)

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Education

- 2004 – PhD : Museum National d’Histoire Naturelle/CNRS/Collège de France, *Advisor* : Pr. Yves Coppens. *Thesis title*: Grasping in primates, ethological, morphological and biomechanical approaches.
- 2012 – Habilitation to Drive Researches: University Paris-Sud 11, Orsay.
- 2015 – 2023 : Professional formation in statistics, doctoral supervision and action against gender-based violence.

Positions

- 2003 – 2004, ATER, Toulon University-HandiBio (Human, animal Biomechanics), France.
- 2004 – 2005, ATER, Post-doctoral researcher, College de France, France.
- 2005 – 2006, Post-doctoral researcher, UMR 5176 CNRS/MNHN, Singer Paulignac grant.
- 2007 – 2012, Assistant Professor, Toulon University-HandiBio, France.
- 2012 – 2013, Delegation CNRS, UMR 7179 CNRS/MNHN, Paris, France
- 2013 – 2016, Permanent researcher (CR1) at the French CNRS, MNHN (UMR 7179)
- 2017 - Present, Research Director (DR2) at the French CNRS, MNHN (UMR 7179)

Appointments & collective tasks

Pedagogy

- 2009 – 2011, Elected member of the UFR Council of Toulon University
- 2009 – 2011, Member of the teaching commissions and the Master juries of Toulon Univ.

Research

- 2009 – 2011, Member of the Scientific Council of the HandiBio lab., Toulon
- 2009 – 2011, Group leader of the “Animal Biomechanics” team, HandiBio lab., Toulon
- 2012 – 2016, Elected member of the Administrative Council of the SFDP
- 2014 – 2016, Elected member of the Council of the UMR 7179-MECADEV
- 2014-2018, Master juries Ethology, Univ. Paris Nord
- Since 2021, Responsible for animal welfare FUNEVOL
- Since 2021, Expertise for the PEPR bioinspiration
- Since 2022, Member of the project Recherche Animal Connect (participative sciences – MOSAIC/MNHN/SU)
- Since 2022, Member of the MECAGEV wellbeing cell
- Since 2022, Master juries MNHN and SU, Paris
- Since 2023: Member of the Observatoire de Recherche sur la Condition Animale, CNRS
- Since 2023 : Membre du groupe de recherche & aquariums, ASU
- 2023-2027, Titular member of the Consultative Committee on Ethics (MNHN, Paris).
- 2023-2027, Titular member of the National Advisory Commission for Captive Wildlife (CNCFSC), Ministry of Ecological Transition and Territorial Cohesion

Awards

● 2001 – 2020, Médaille d'argent du CNRS (2019), Chevalière de la Légion d'Honneur (2019), Prix de l'Académie des Sciences, Belles-lettres et arts de Bordeaux (2020), prix du doyen Jean de Feytaud (2020), Scientific excellence award (PEDR) of the CNRS (2009-2013 & 2014-2018 & 2020 - 2024), Best Poster Prize (SB 2009), Fondation Singer Polignac (2005), Société des Amis du MNHN (2003), Fondation Marcel Bleustein Blanchet pour la vocation (2000), Aires Culturelles Program (1998).

Research grants as a PI - Coordinator: > 20 (~1.300.000 Euros total) and Collaborator

- 2022 PhD Funding (IBEES) – CO-PI - Cognition & emotion in primates
- 2022 Collaborator ERC Advanced grant – PI MH Moncel - Why late earliest occupation of Western Europe?
- 2021 PhD Funding Initiative Biodiversité, Evolution, Ecologie, Société (IBEES) – trunk biomechanics
- 2021 Collaborator ANR PAleoBRAIN – PI A. Balzeau
- 2020: Funding for ELEPHANTMAN (CNRS/PRIME): 22k€
- 2019: Funding for ELEPHANTMAN (CNRS/PRIME): 30k€ and 1 PhD funding (elephants' trunk manipulation and evolution)
- 2019: Funding Emergence Sorbonne Universités: 65k€ and post-doctoral position (grasping biomechanics in primates)
- 2019: CIFRE - PhD funding (chimpanzees' nests in Uganda) – CO-PI (PI S. Krief)
- 2018: Research grant of the ATM « Blanches » - medical and physical properties of the chimpanzees' nests in Uganda - 6000€
- 2017: Research grant of the ATM « Blanches » - Grasping and manipulative abilities in *Xenopus laevis* according to food properties - 7000€
- 2017: Research grant of the CNRS, Defi Auton – Grasping abilities in arthropods: from biology to robotics - 9000€
- 2016: Research grant of the ATM « Collections vivantes » - Manipulative strategies in platyrrhines - 7000€
- 2016: Research grant of the CNRS, Defi Auton – Grasping abilities in arthropods: from biology to robotics - 6000€
- 2015: Research grant of the ATM « Collections vivantes » - Manipulation in captive primates - 3000€
- 2015: Research grant of the ATM « FORM » - How hand modelling can help the understanding of great apes abilities? - 8000€
- 2014: Doctoral Funding ENS: PhD P. Thomas – Physical performance and behavior in a small primate (*Microcebus murinus*): influence of morphology, age, sex, and environmental context - 120000€
- 2014: Labex BCDiv 2 years postdoc grant – Choix alimentaires et techniques de manipulation de la nourriture chez les gorilles de l'ouest : acquisition du savoir par mécanismes adaptatifs ou traditions? - 100000€
- 2013: Doctoral funding FDV : PhD A. Bardo – Manipulation abilities among hominids: a multidisciplinary study with behavior, morphology and modeling - 13000€
- 2012: Labex BCDiv Doctoral funding : PhD M. Cibot (co-supervisor, Supervisor S. Krief) – Le chimpanzé face à l'anthropisation de son habitat: conséquences sanitaires, comportementales, fonctionnelles et sociales - 150000€
- 2012 : Research grant of the ATM « FORM » - Approche comportementale de la préhension chez les catarhiniens - 3000€
- 2012 : Research grant of the BQR Toulon Univ - 10000€

- 2009 : Doctoral funding ED Toulon-Marseille : PhD E. Reghem – 125000€
- 2009 : Research grant of the Toulon Univ – 7000€

Peer-reviewed publications >78 total (1 < IF < 9)

- 1) Bardo A. & Pouydebat E. (In prep). Tool grasping techniques and performance in gorillas, orangutans, and human children, and adults.
- 2) Mortessagne E., Bovet D., Nozières C., Pouydebat E., Pifferi F. (submitted). Learning performance of grey mouse lemurs (*Microcebus murinus*) during a visual discrimination task: effect of the stimuli's emotional value.
- 3) Costes P., Soppelsa J., Boulinguez-Ambroise G., Houssin C., Cornette R., Pouydebat E. (Submitted). Trunk uses in African elephants from Namibia versus South Africa.
- 4) Cornette R., Houssin C., Mulo B., Pouydebat E., Submitted. A quantified morphological study of the African savanna elephant trunk in relation to body shape and various behavioural activities. *Journal of Zoology*.
- 5) Lacroux C., Krief S., Douady S., Cornette R., Durand S., Aleeje A., Asalu E., Pouydebat E. (En revision). Chimpanzees select comfortable nesting tree species. *Scientific Report*.
- 6) Peckre R., Fabre A-C., Wall C.E., Pouydebat E., Whishaw I.Q., (2023). Evolutionary history of food withdraw movements in primates: food withdraw is mediated by nonvisual strategies in 22 species of strepsirrhines". *Evolutionary Biology*. DOI:10.1007/s11692-023-09598-0.
- 7) Auger C., Copolletta C., Todd A., Fuh T., Sottomayor A., Pouydebat E., Masi S., (In press). Feeling a bit peckish: seasonal and opportunistic insectivory for wild gorillas. *American Journal of Biological Anthropology*.
- 8) Lacroux, C., Bonnet, S., **Pouydebat**, E. *et al.* (2023). Survey of ticks and tick-borne pathogens in wild chimpanzee habitat in Western Uganda. *Parasites Vectors* 16, 22 (2023). <https://doi.org/10.1186/s13071-022-05632-w>
- 9) **Pouydebat** E., Boulinguez-Ambroise G., Manzano A. Abdala V., Sustaita D. (2023). Convergence evolution of object/substrate/food grasping in tetrapods. In *Convergent Evolution* (V.L. Bels and A.P. Russell, Eds.) Springer Ed. pp 323–389. https://doi.org/10.1007/978-3-031-11441-0_12
- 10) Cornette R., Delapré A, Houssin C, Mulo B, Plantade A, **Pouydebat** E (2022). Measuring the force of the distal part of the elephant's trunk. *MethodsX*. <https://doi.org/10.1016/j.mex.2022.101896>.
- 11) Lacroux C., **Pouydebat** E., Rossignol M., Ravi HK, Chemat F., Durand S., Aleeje A., Asalu E., Chandre F., Krief S., (2022). Repellent activity against *Anopheles gambiae* of leaves of nesting trees in the Sebitoli chimpanzee community of Kibale National Park, Uganda. *Malaria Journal* 21, Article number: 271.
- 12) Masi S, **Pouydebat** E, San-Galli A, Meulman E, Breuer T, Reeves J, and Tennie C., (2022). Free hand hitting of stone-like objects in wild gorillas. *Scientific Reports*. 12, Article number: 11981.
- 13) Gérard C., Bardo A., Guery JP, **Pouydebat** E., Simmen B., Narat V (2022). Manipulative repertoire of bonobos in spontaneous feeding situation. *American Journal of Primatology*. 2022;e23383. DOI: 10.1002/ajp.23383.
- 14) Peckre R., Fabre A-C., Wall C.E., **Pouydebat** E., Whishaw I.Q., (2022). Two types of hand withdraw movement to place food in the mouth mediated by somatosensation in 22-species of strepsirrhines. bioRxiv; doi: <https://doi.org/10.1101/2022.03.13.484147>
- 15) Soppelsa J., **Pouydebat** E., Lefeuvre M., Mulo B., Houssin C., Cornette R. (2022). The relationship between distal trunk morphology and object grasping in the African savannah elephant (*Loxodonta africana*). *Peer J*. 10:e13108 <https://doi.org/10.7717/peerj.13108>

- 16) Boulinguez-Ambroise G Aychet J, **Pouydebat E.** (2022). Limb Preference in Animals: New Insights into the Evolution of Manual Laterality in Hominids. *Symmetry* 14, 96. <https://doi.org/10.3390/sym14010096>.
- 17) **Pouydebat E.**, (2021). Les animaux porteurs de savoirs, p.122-144. In : L'homme et l'animal. L'invention de nouveaux liens. Editions Le cherche midi, 176p.
- 18) Lefeuvre M., Gouat P., Mulot B., Cornette R., **Pouydebat E.** (2021). Analogous laterality in trunk movements in a small captive population of African elephants. doi.org/10.1080/1357650X.2021.1999253.
- 19) Balzeau et al., 2021. PaleoBRAIN : ressusciter le cerveau d'Homo erectus et des NéandertaliensPaleoBRAIN: bringing the brain of Homo erectus and Neandertals back to life. *Bulletins et Mémoires de la Société d'anthropologie de Paris* 34((S)) DOI: [10.4000/bmsap.8185](https://doi.org/10.4000/bmsap.8185)
- 20) Boulinguez-Ambroise Grégoire, Meguerditchian, Adrien, **Pouydebat**, Emmanuelle (2021). Maternal cradling bias drives early handedness in infant monkeys: A longitudinal study of grasping lateralization in baboons. *Developmental Science*. DOI: [10.1111/desc.13179](https://doi.org/10.1111/desc.13179).
- 21) Thomas-Zablocki Pauline, Simon Lailvaux, Fabienne Aujard, Emmanuelle **Pouydebat**, and Anthony Herrel (2021). Maternal and genetic correlations between morphology and physical performance traits in a small captive primate, *Microcebus murinus*. *Biological Journal of the Linnean Society* DOI: [10.1093/biolinnean/blab071](https://doi.org/10.1093/biolinnean/blab071).
- 22) Masi S. [...], **Pouydebat E.**, et al. (2021). : "No evidence for female kin association, indications for extra-group paternity and sex-biased dispersal patterns in wild western gorillas" to Ecology and Evolution. *Ecology and evolution* 11(12): 7634-7646.
- 23) Boulinguez-Ambroise, Grégoire & Herrel, Anthony & Berillon, Gilles & Young, Jesse & Cornette, Raphaël & Meguerditchian, Adrien & Cazeau, Cyrille & Bellaïche, Laurence & **Pouydebat**, Emmanuelle. (2021). Increased performance in juvenile baboons is consistent with ontogenetic changes in morphology. *American Journal of Physical Anthropology*. [10.1002/ajpa.24235](https://doi.org/10.1002/ajpa.24235).
- 24) Zablocki-Thomas, P., G. Boulinguez-Ambroise, C. Pacou, J. Mézier, A. Herrel, F. Aujard and E. **Pouydebat** (2021) Behavioral reactions to a mirror in the nocturnal grey mouse lemur (*Microcebus murinus*): sex differences in avoidance. PeerJ 9: e11393. Doi: [10.7717/peerj.11393](https://doi.org/10.7717/peerj.11393)
- 25) Boulinguez-Ambroise, G., **Pouydebat**, E., Disarbois, É. et al. Human-like maternal left-cradling bias in monkeys is altered by social pressure. *Scientific Report* 10, 11036 (2020). <https://doi.org/10.1038/s41598-020-68020-3>
- 26) Lefeuvre M., Gouat P., Mulot B., Cornette R., **Pouydebat E.** (2020). Behavioural variability among captive African elephants in the use of the trunk while feeding. *Peer J*. 8: e9678 doi: [10.7717/peerj.9678](https://doi.org/10.7717/peerj.9678).
- 27) A. Bardo, M.-H. Moncel, C.J. Dunmore, T.L. Kivell, E. **Pouydebat**, R. Cornette (2020) The implications of thumb movements for Neanderthal and modern human manipulation. *Scientific Reports* 10, 19323. <https://doi.org/10.1038/s41598-020-75694-2>.
- 28) Alice Rodriguez, Emmanuelle **Pouydebat**, M. Gema Chacón, Marie-Hélène Moncel, Raphaël Cornette, Ameline Bardo, Laurence Chèze, Radu Iovita, Antony Borel (2020). Right or Left? Determining the hand holding the tool from use traces. *Journal of Archaeological Science: Reports*. <https://doi.org/10.1016/j.jasrep.2020.102316>.
- 29) Boulinguez-Ambroise G., Herrel A., **Pouydebat E.**, (2020). Ontogeny of locomotion in mouse lemurs: Implications for primate evolution. *Journal of Human Evolution*. <https://doi.org/10.1016/j.jhevol.2019.102732>.
- 30) Pauline Zablocki-Thomas, Anthony Herrel, Caitlin Karanewsky, Fabienne Aujard, Emmanuelle **Pouydebat**, (2019). Heritability and genetic correlations of personality, life

- history and morphology in the grey mouse lemur (*Microcebus murinus*). Royal Society Open Science, The Royal Society, 2019, 6 (10), pp.190632. <10.1098/rsos.190632>. <hal-02350932>).
- 31) Louise Rachel Peckre, Aurélien Lowie, David Brewer, Erin Ehmke, Kay Welsler, **Pouydebat**. (2019). Food mobility and the evolution of grasping behaviour: a case study in strepsirrhine primates. *Journal of Experimental Biology*, Cambridge University Press, 2019, 222 (20), pp.jeb207688. <10.1242/jeb.207688>. <hal-02350940>
 - 32) Boulinguez-Ambroise G., Zablocki-Thomas P., Aujard F., Herrel A., **Pouydebat** E. (2019). Ontogeny of food grasping in mouse lemurs: behavior, morphology and performance. *Journal of Zoology*. <https://doi.org/10.1111/jzo.12652>.
 - 33) **Pouydebat** E., Bardo A., (2019). An interdisciplinary approach of the evolution of grasping and manipulation? *Biological Journal of The Linnean Society* <https://doi.org/10.1093/biolinnean/blz058>.
 - 34) Louise Peckre, Anne-Claire Fabre, Julien Hambuckers, Christine Wall, Lluís Socias-Martínez, Emmanuelle Pouydebat. (2019). Food properties influence grasping strategies in strepsirrhines. *Biological Journal of the Linnean Society*, Linnean Society of London, 127 (3), pp.583-597. <10.1093/biolinnean/bly215>. <hal-02350980>.
 - 35) Anne-Claire Fabre, Louise Peckre, Emmanuelle **Pouydebat**, Christine Wall., (2019). Does the shape of forelimb long bones co-vary with grasping behaviour in strepsirrhine primates?. *Biological Journal of the Linnean Society*, Linnean Society of London, 127 (3), pp.649-660. <10.1093/biolinnean/bly188>. <hal-02350976>.
 - 36) Vigouroux L., Bardo A., Kivell T.L., **Pouydebat** E. (2018). Biomechanical analyses of the consequences of different hand proportion on tool grasp abilities using musculo-skeletal simulation: a preliminary study. *Journal of Human Evolution* 125 : 106-121
 - 37) Bailly F., **Pouydebat** E., Watier B., Bels V., Soueres P. (2018). Should mobile robots have a head? A rationale based on behavior, automatic control and signal processing. *Biomimetic and Biohybrid Systems*, LNAI 10928: 28-39.
 - 38) Robira B., **Pouydebat** E., San-Galli A., Meulman E., Aubaile F., Breuer T., Masi S. (2018). Handedness in gestural communication, food and tool manipulation in hunter-gatherer Aka pygmies. *American Journal of Physical anthropology*. doi.org/10.1002/ajpa.23435.
 - 39) Thomas P., Karanewsky C.J., Pendleton J.L., Aujard F., **Pouydebat** E., Herrel A. (2018). Drivers of bite force of in vivo performance in wild brown mouse lemurs (*M. rufus*). *Journal of Zoology*. [doi:10.1111/jzo.12550](https://doi.org/10.1111/jzo.12550).
 - 40) Thomas P., Herrel A., Hardy I., Rabardel L., Perret M., Aujard F., **Pouydebat** E. (2018). Personality and performance are affected by age and early life parameters in a small primate. *Ecology and Evolution*. DOI: 10.1002/ece3.3833.
 - 41) Bardo A., Cornette R., Borel A., **Pouydebat** E. (2017). Manual function and performance in humans, gorillas and orangutans during the same tool use task. *American Journal of Physical anthropology*. DOI: 10.1002/ajpa.2332.
 - 42) Anzeraey A., Herrel H., Aumont M., Descamp T., **Pouydebat** E. (2017). Effect of food properties on grasping abilities in *Xenopus laevis*. *Journal of Experimental Biology*. 220 (23): 4486–4491.
 - 43) Le Brazidec, M., Herrel, A., Thomas, P., Boulinguez-Ambroise, G., Aujard, F., & Pouydebat, E. (2017). How Aging Affects Grasping Behavior and Pull Strength in Captive Gray Mouse Lemurs (*Microcebus murinus*). *Int J Primatol*, 38(6), 1120–1129.
 - 44) Bardo A., Borel A., Meunier H., Guéry J-P., **Pouydebat** E., 2016. Manual abilities in great apes during a tool use task. *American Journal of Physical Anthropology*. [doi: 10.1002](https://doi.org/10.1002).
 - 45) Borel A., Chèze L., **Pouydebat** E., 2016. Sequence analysis of grip and manipulation during tool using tasks: a new method to analyze hand use strategies and examine human specificities. *Journal of Archaeological Method and Theory*, **24**, pages751–775.

- 46) Cibot M., Krief S., Philippon J., Couchoud P., Seguya A., **Pouydebat E.**, 2016. Hand and Foot Impairments of Wild Adult Chimpanzees (*Pan troglodytes schweinfurthii*): consequences on Behavioral and Functional capabilities during Feeding. *American Journal of Physical Anthropology*. DOI 10.1007/s10764-016-9914-0.
- 47) Honoré E., Rakza T., Deruelle P., Senut B., **Pouydebat E.**, 2016. First identification of non-human hand stencils at Wadi Sura II (Egypt): a morphometric study for new insights into rock art symbolism. *Journal of Archaeological Science* 6 (242-247).
News, *Science*, 29 Février. <https://www.sciencemag.org/news/sifter/lizards-may-be-behind-baby-handprint-cave-art>.
- 48) Peckre L., Fabre A.-C., Wall C.-E., Brewer D., Ehmke E., Haring D., Shaw E., Welser K., **Pouydebat E.**, 2016. Holding on: co-evolution between infant carrying and grasping behaviour in strepsirrhines. *Scientific reports*. 6:37729 | DOI: 10.1038/srep37729
- 49) Thomas P., Herrel A., Hardy I., Aujard F., **Pouydebat E.**, 2016. Exploration behavior and morphology are correlated in captive grey mouse lemurs (*Microcebus murinus*). *International Journal of Primatology*, 1-11.
- 50) Thomas, P., **Pouydebat**, E., M. Lebrazidec, Aujard, & Herrel, A., 2016. Determinants of pull strength in captive grey mouse lemurs (*Microcebus murinus*). *Journal of Zoology*: 298 (2) : 77–81.
- 51) Bardo, A., **Pouydebat**, E., & Meunier H., 2015. Do bimanual coordination, tool use, and body posture contribute equally to hand preferences in bonobos? *J Hum Evol* 82, 159–169.
- 52) Feix, T., Kivell, T. L., **Pouydebat**, E., & Dollar, A. M., 2015. Estimating thumb-index finger precision grip and manipulation potential in extant and fossil primates. *J R Soc Interface*, 12(106).
- 53) Perrenoud M., Herrel A., Borel A., **Pouydebat E.**, 2015. Strategies of food detection in a captive cathemeral lemur, *Eulemur rubriventer*. *Belgium J. Zool.* 145(1):69-75.
- 54) Thomas, P., **Pouydebat**, E., Hardy, I., Aujard, F., Ross, C. F., & Herrel, A., 2015. Sexual dimorphism in bite force in the grey mouse lemur. *Journal of Zoology* 296 (2) : 133–138.
- 55) Toussaint S., Herrel A., Ross C.F., Aujard F., **Pouydebat E.**, 2015. The use of substrate diameter and orientation in the context of food type in the mouse lemur, *Microcebus murinus*: implications for the origins of grasping in primates. *International Journal of Primatology*. 36 (3) : 583-604.
- 56) Brunon A., Bovet D., Bourgeois A., **Pouydebat E.**, 2014. Motivation and manipulation capacities of the blue and yellow macaw and the tufted capuchin: a comparative approach. *Behavioural Processes* 107 : 1-14.
- 57) **Pouydebat E.**, Borel A., Chotard H., Fragaszy D., 2014. Hand preference in fast-moving versus slow-moving actions in capuchin, *Sapajus* spp., and squirrel monkeys, *Saimiri sciureus* A. *Behaviour* 97:113-123.
- 58) **Pouydebat E.**, Fragaszy D. Kivell T. 2014. Grasping in primates: to feed, to move and human specificities. *Bulletins et Mémoires de la Société d'Anthropologie de Paris* 26:129-133.
- 59) Reghem E., Chèze L., **Pouydebat E.**, 2014. Influence of body postures on prehension's kinematics of human and gorilla. *Experimental Brain Research* 232 (3): 1047-1056.
- 60) Borel A., Gaillard C., Moncel MA, Sala R, **Pouydebat E**, Sémah F. 2013. How to interpret informal flakes assemblages? Integrating morphological description, usewear and morphometric analysis gave better understanding of the behaviors of anatomically modern human from Song Terus (Indonesia). *J. of Anthropol. Archaeology* 32: 630-646.
- 61) Cibot M, J Philippon, R Laurent, E **Pouydebat**, S Krief. 2013. Effets du braconnage et des mutilations sur les budgets d'activités et les rapports sociaux des chimpanzés sauvages de Sebitoli dans le parc national de Kibale (Ouganda). *Revue de Primatologie*.

- 62) Fabre A.C., Cornette R., Slater G., Argot C., Peigné S., Goswami A., **Pouydebat E.**, 2013. Getting a grip on the evolution of grasping in carnivores: a three-dimensional analysis of forelimb shape. *Journal of Evolutionary Biology* 26 (7) : 1521–1535.
- 63) Herrel A., Perrenoud M., Decamps T., Abdala V., Manzano A., **Pouydebat E.**, 2013. The effect of substrate diameter and incline on locomotion in an arboreal frog. *Journal of Experimental Biology* 216: 3599-3605.
- 64) Reghem E., Chèze L., Coppens Y., **Pouydebat E.** 2013. Grasping's kinematic in five primates: *Lemur catta*, *Sapajus xanthosternos*, *Gorilla gorilla*, *Pan troglodytes*, *Homo sapiens*. *J. Human Evolution* 65: 303-312.
- 65) Sustaita, D, **Pouydebat E.**, Abdala, V., Manzano, A., Herrel A., 2013. Getting a grip on tetrapod grasping: Form, function and evolution. *Biological reviews* 88(2): 380-405.
- 66) Toussaint R., Reghem E., Chotard H., Herrel A., Ross C.F., **Pouydebat E.** 2013. Food acquisition on arboreal substrates by the grey mouse lemur: implication for primate grasping evolution. *Journal of Zoology* 291:235–242.
- 67) Van Zwieten K. J., A. Hotterbeekx, E. **Pouydebat**, K. P. Schmidt, P. Helder, P. L. Lippens. 2013. Some functional-anatomical characteristics of finger movements in the hands of human and other primates. Proceedings of the 8th Annual All-Russian Research and Practical Conference 8 (1): 518-528.
- 68) Borel A, **Pouydebat E**, Reghem E. 2012. Laterality package: R functions for laterality studies. <http://cran.r-project.org/web/packages/Laterality/index.html>. 09/2012.
- 69) Reghem E., Byron C., Bels V., **Pouydebat E.** 2012. Hand posture in the grey mouse lemur during arboreal locomotion on narrow branches. *Journal of Zoology* 288: 76-81.
- 70) Reghem E., Tia B., Bels V., **Pouydebat E.**, 2011. Food prehension and manipulation in *Microcebus murinus* (Prosimii, cheirogaleidae). *Folia primatologica* 82: 177-188.
- 71) **Pouydebat E.**, Reghem E., Borel A., Gorce P., 2011. Diversity of grip in adults and young humans and chimpanzees (*Pan troglodytes*). *Behavioural Brain Research* 218 (1-17) : 21-28.
- 72) **Pouydebat E.**, Reghem E., Gorce P., Bels V., 2010. Influence of the task on hand preference: individual differences among gorillas (*Gorilla gorilla gorilla*). *Folia Primatologica* 81: 273-281.
- 73) Legreneur P., Thévenet F. R., Libourel P. A., Monteil K., **Pouydebat E.**, Bels V., 2010. Hind limb interarticular coordinations in *Microcebus murinus* in maximal leaping. *Journal of experimental Biology* 213: 1320-1327.
- 74) **Pouydebat E.**, Gorce P., Bels V., 2009. Biomechanical study of grasping according to the volume of the object : human versus non human primates. *Journal of biomechanics* 42(3-9): 266-272.
- 75) Marzke MW, E. **Pouydebat**, M. Laurin, P. Gorce and V. Bels., 2009. A clarification of Pouydebat et al., 2008, Evolution of grasping among anthropoids. *Journal of evolutionary biology* 22(12):2554-7.
- 76) Marzke MW, **Pouydebat E.** Comments on E. Pouydebat, P. Gorce, Y. Coppens, V. Bels, 2009. Biomechanical study of grasping according to the volume of the object: human versus non-human primates. *Journal of biomechanics* 42(15): 2628-9.
- 77) **Pouydebat E.**, Laurin M., Gorce P., Bels. V., 2008. Evolution of grasping among anthropoids. *Journal of evolutionary biology* 21(6):1732-43.
- 78) **Pouydebat E.**, Gorce P., Coppens Y., Bels V. 2006. Substrate optimization in nuts cracking by capuchin monkeys. *American journal of primatology* 68(10): 1017-1024.
- 79) **Pouydebat E.**, Berge, C., Gorce P., Coppens, Y. 2006. Prehension among primates: precision, tools and evolutionary perspectives. In : Thematic issue : One hundred years after Marey : some aspects of functional morphology today. *Comptes Rendus Palevol de l'Académie des Sciences* 5 (3-4): 597-602.

- 80) **Pouydebat E.**, Coppens Y., Gorce P., 2006. Evolution de la préhension chez les primates humains et non humains : la précision et l'utilisation d'outils revisités. *L'Anthropologie* 110(5) : 687-697.
- 81) **Pouydebat E.**, Gorce P., Berge C., Coppens Y., 2006. Grasping among primates: precision, tools and evolution. *Antropo* (11) : 159-166.
- 82) **Pouydebat E.**, 2005. La préhension chez les Primates: approches éthologiques, morphométriques et biomécaniques. *Anthropozoologica* 40(1): 267.
- 83) **Pouydebat E.**, Berge, C., Gorce, P., Coppens Y., 2005. Use and manufacture of tools to extract food by captive *Gorilla gorilla gorilla*: experimental approach. *Folia Primatologica*, 76, 180-183.

Collaborations (national & international)

Dorothy Fragaszy, Tracy Kivell, Sabrina Krief, Laurent Vigouroux, Aaron Dollar, Thomas Feix, Anthony Herrel, Diego Sustaita, Brigitte Senut, Raphaël Cornette, Patrick Gouat, Fabienne Aujard, Anne claire Fabre, Virginia Abdala, Dalila Bovet, Adriana Manzano, Callum Ross, Shelly Masi, Craig Byron, Mary Marzke, Graham Slater, Christine Argot, Stéphane Peigné, Claire Gaillard, Marie Hélène Moncel, Robert Sala, François Semah, Hélène Meunier, Michel Laurin, Vincent Bels, Antony Borel, etc.

Books & Chapters : 15

- 2023. Pouydebat E., Martin R., Glassof W. Mes histoires incroyables sur les animaux. Bayard éd. Jeunesse. 112 pages.
- 2022. Pouydebat E. & G. Macagno (illustrateur). Lucy, Coppens, moi et les autres. Humenscience. 129 pages.
- 2020 : Pouydebat E. & Terrazoni J (illustratrice). *Sexus animalus*, tous les goûts sont dans la nature. 183 pages. Arthaud. Coup de cœur FNAC.
- 2019 : Pouydebat. Quand les animaux et les végétaux nous inspirent. 208 pages. Odile Jacob. Prix de l'Académie nationale des sciences, des belles-lettres et arts de Bordeaux (prix du doyen Jean de Feytaud, ouvrages de biologie, éthologie et environnement).
- 2018 : Pouydebat E. & Julie Terrazoni. Atlas de zoologie poétique. Arthaud. Coup de cœur FNAC.
- 2017 : Pouydebat E. L'intelligence animale, cerveau d'oiseaux et mémoire d'éléphant. 224 pages. Odile Jacob. Traduit en plusieurs langues (chinois, espagnol, japonais, allemand), 2^{ème} au concours *Le goût des sciences*, sélectionné pour le prix du meilleur livre scientifique (oct. 2018). Coup de cœur FNAC.
- 2012: Pouydebat E., Eggert L. Problématiques du territoire en Ethologie et Génétique. In : G. Kourtesi-Philippakis & R. TREUIL : *Territoires égéens et autres*. Editions du comité des travaux historique et scientifique, Paris. 440p.
- 2011 : Pouydebat E. Annales corrigées, BEP carrières sanitaires, Ed. Vuibert, 288p.
- 2011 : Pouydebat E. Annales corrigées, CAP Petite Enfance, Ed. Vuibert, 192p.
- 2008 : Pouydebat E. Concours d'Auxiliaire de puériculture, Ed. Vuibert, 196p.
- 2008 : Pouydebat E., Thiebault-Roger F. Concours d'ATSEM, Ed. Vuibert, 228p.
- 2006 : Pouydebat E. Sciences et technologie, p.475-523. In : Deslandes L. et coll., Dictionnaire de culture générale, « *Enseignement supérieur, culture scientifique* », Ed. Vuibert, 564p.
- 2005 : Pouydebat E. Matières professionnelles, CAP Petite enfance, Ed. Vuibert, 323p.
- 2005 : Pouydebat E. Matières générales, BEP carrières sanitaires, Ed. Vuibert, 229p.
- 2005 : Pouydebat E. Matières générales, CAP petite enfance, Ed. Vuibert, 156p.
- 2003 : Pouydebat E. Biologie humaine, concours paramédicaux, Ed. Vuibert, 192p.

Published abstracts: > 55 total

● 2004 – 2022 : Archives of Physiology and biochemistry, Comparative Biochemistry and Physiology, Computer Methods in Biomechanics and Biomedical Engineering, European Society for the study of Human Evolution, Folia Primatologica, Society for experimental biology, Journal of biomechanics, Primatologie...

Congresses & seminars: > 75 total

Congresses (53 with 9 invitation))

● 2004 – 2022 : Timeworld, L'animal à l'anthropocene, Living Machine, UISPP, International Primatological Society, Fédération européenne de Primatologie, Société Francophone de Primatologie, FORM-Evolution of form, constraints, adaptation, Society of Experimental Biology, International Congress of Vertebrate Morphology, International Society for behavioural Ecology, World congress of Biomechanics, Société de Biomécanique, Rencontres Ecologie et Comportement, SFECA...

Seminars (23 with 9 invitations)

● 2002 – 2022 : L'animal à l'anthropocene - , Institut des Systèmes Intelligents et de Robotique (ISIR) – UPMC (Paris), Institut des Sciences du Mouvement (Marseille), UMR 7206, Eco-anthropologie (Paris), UPR 2147-CNRS, Dynamique de l'Évolution Humaine (Paris), UMR 7179, Mécanismes adaptatifs, des organismes aux communautés (Paris), UMR 6146, Laboratoire de psychologie cognitive (Marseille), HandiBio (Toulon), Institut de l'Aplomb (Paris), Collège de France, Chaire de Paléoanthropologie (Paris), Maison de l'archéologie (Nanterre), Université Paris 1-Panthéon Sorbonne (Paris).

Organization of congress and symposia: 10

- 2020, L'animal à l'anthropocène, les animaux porteurs de savoir, Paris.
- 2019, Scientific committee of the Congress of the Société de Biomécanique, Poitiers.
- 2018, Organisation of the congress of the Société Francophone de Primatologie & Scientific committee, Paris.
- 2018, Scientific committee of the Living Machines Congress (biomimetism), Paris.
- 2017, Scientific committee of The Congress of the European Federation of Primatology. Organization of a symposium: From strong climbing to delicate manipulations: what an interdisciplinary approach can tell us about grasping and manipulation? Strasbourg.
- 2015, Co-organisation of the Labex BCDiv days, Paris.
- 2013 – 2015 , Organisation of the congress of the Société Francophone de Primatologie & Scientific committee.
- 2012, Organisation of a symposium: *Origins and evolution of prehension in primates : what can we learn from other Tetrapodes ?* XXIV International Congress of Primatology, Cancun, Mexique.
- 2011, Organisation of the Handi-USTV days, Toulon, France.
- 2009, Organisation of the congress of the Société de Biomécanique, Toulon 2009.

International invited presentation: 9

- 2022 Talk, Congress Time World 2022, SU, Campus Pierre & Marie Curie.
- 2020, Talk, L'animal à l'anthropocène, les animaux porteurs de savoir, Paris.
- 2017, Plenary talk, Congress of the European Federation of Primatology
- 2014, Hands symposium, University of Kent, UK.
- 2013, European Federation for Primatology meeting, Antwerp, Belgium.

- 2012, Groupement de recherches en Robotique, Toulouse, France.
- 2011, Club locomotion, Marseille, France.
- 2010, 11th International Congress of Vertebrate Morphology, Uruguay.
- 2010, International Society for Adaptive Behavior, Paris, France.

Editor & Associated editor for

- Biological Journal of the Linnean Society (Editor for a special volume 2019)
- Folia Primatologica
- Primatologie

Professional affiliations

● Fédération Européenne de Primatologie ● Société Internationale de Primatologie ● Société Francophone de Primatologie ● Société de Biomécanique ● Société Internationale de *Biomécanique* ● Société d'Anthropologie de Paris ● International Society of Vertebrate Morphology ● Society for Experimental Biology

Reviewer for (≈ 12 journals)

Acta Zoologica, American Journal of Primatology, Animal Cognition, Belgian Journal of Zoology, Biological Journal of the Linnean Society, Experimental Brain Research, Folia Primatologica, Journal of Anatomy, Journal of Human Evolution, Journal of Experimental Biology, Plos One, Journal of the Royal Society Interface, Peer J., Proceedings of The Royal Society, Primatologie, Science, Scientific Report, Sciences et Technologies pour le Handicap...

Grant reviewer

- Agence National de Recherche, France (ANR)
- Leakey foundation
- Research Council KU Leuven, University of Leuven, Belgium
- Société Francophone de Primatologie

Teaching

● Guest lecturer master 2 Ethologie, UPN ● Guest lecturer master 1 Primatologie et anthropologie évolutive ● Guest lecturer master 2 Quaternaire et Préhistoire (IPH), MNHN ● Guest lecturer master 1 Rééducation et ingénierie médicale' (RIM), UPMC ● Guest lecturer master 2, MNHN (SEP30) ● Guest lecturer Ecole Doctorale, MNHN ● Associate Professor Anatomy, Biomechanics, >250h/year, 2007-2011 ● ATER College de France & Toulon Univ, > 96h/year, 2003-2005 ● Biology teaching in paramedical schools, 2000-2006

Student supervised

Postdoctoral researchers (7)

- 2019 – 2021, J. Pablo (Emergence SU, with A. Maille PI): well-being in mouse lemur
- 2019 – 2020, C. Boehmer (Emergence SU): grasping performance in primates
- 2015 – 2017, A.C. Fabre (Marie-Curie, with A. Herrel PI): grasping and arborealism in tetrapods.
- 2015 – 2016, L. Morino (LABEX): manipulative strategies in wild gorillas.
- 2014 – 2015, A. San-Galli (LABEX) : manipulative strategies in wild gorillas.
- 2013 – 2014, E. Meulman (LABEX) : manipulative strategies in wild gorillas.
- 2010 – 2013, A. Borel (ATER/FYSSSEN) : grasping biomechanics in humans.

PhD students (9)

- E. Mortessagne (2022-2025), IBEEES Funding: Evolution of the interaction between emotion and cognition in primates.
- P. Costes (2021-2024), IBEEES Funding: African elephant's trunk modelling.
- J. Soppelsa (2019-2022), PRIME Funding (CNRS, ELEPHANT MAN Pouydebat project), with Raphaël Cornette: Variability of trunk manipulations in elephants.
- C. Lacroux (2019-2022), one CIFRE project in the process of validation, with S. Krief Mechanical and chemical properties of the chimpanzees' nests.
- G. Boulinguez-Ambroise (2017-2020), with A. Meguerditchian: Ontogenesis of the manual and pedal motor systems in a comparative approach in two primates.
- P. Thomas (2014-2017), with F. Aujard: The determinants of physical performance and personality and their transmission in a small primate (*Microcebus murinus*).
- A. Bardo (2013-2016) : Evolution of the primate's hand : manipulation & tool use.
- M. Cibot (2012-2015), with S. Krief : Interactions humains-chimpanzés sauvages : adaptations fonctionnelles post-mutilations et conséquences sanitaires.
- E. Reghem (2009-2012) : Stratégies biomécaniques de la préhension chez les Primates : implications évolutives.

Master 2 (21) Master 1 (25) & Licence (15)

- 2012 – 2022 : S. Costard (UBordeaux), K. Lagadou (ENS), E. Mortessagne (AGROCAMPUS), P. Costes (Poitiers), A. Plantade (ENS), A. Marion (ENS), C. Pacou (SupAGRO), A. Phelippeau (UPN), M. Lefeuvre (AGROCAMPUS), L. Sauvadet (SupAgro), O. Courtois (MNHN), E. Auda (MNHN), M. Plancke (MNHN), A. Anzeraey (MNHN), G. Boulinguez Ambroise (SupAGRO), T. Parisot (St Etienne), A. Evenot (EPHE), M. Lebrazidec (UPN), L. Peckre (UPN), M. Gérardin (UPN), P. Thomas (ENS), S. Toussaint (UPN), A. Brunon (UPN), M. Perrenoud (Dijon), A. Bardo (UPN), M. Cibot (Maison Alfort), E. Reghem (MNHN), B. Tia (MNHN)

PhD and HDR jurys – Scientific comities: 20

- Member of the PhD jury of Manon Monier (Institut Jacques Monod, Paris), 2023.
- Member of the PhD jury of Marie Vanhoof, (Leuven, Belgique), 2023.
- Member of the PhD jury (présidente) of Jean-Marc Dubost (Musée de l'homme), 2022.
- Member of the PhD jury & rapportrice of Lison Martinet (Univ. Strasbourg), 2022.
- Member of the scientific comity for an Associate Professor position in ethology, UPN, 2021.
- Member of the PhD jury (présidente) of Julie Bonnald (MNHN), 2021.
- Member of the HDR committee & Reviewer of Sébastien Couette (EPHE), 2020.
- Member of the PhD jury & Reviewer of Margot Bernardi (EPHE), 2019.
- Member of the PhD jury & Reviewer of JP Pallandre (MNHN), 2018.
- Member of the HDR jury & Reviewer of Thomas Gruber (Zurich, Suisse), 2018.
- Member of the HDR jury & Reviewer of R. Cornette (Univ. Paris Sud), 2018.
- Member of the PhD jury & Reviewer of Marine Cazenave (Univ. Toulouse), 2018.
- Member of the PhD committee of Benoist Letang (Univ. Strasbourg), defended 2018.
- Member of the PhD jury & Reviewer of Alice Percher (Univ. Montpellier), 2017.
- Member of the HDR jury & Reviewer of Hélène Meunier (Strasbourg), 2013.
- Member of the Master 2 committee of UPN (Paris 13), 2012 – 2015.
- Member of the Veterinary PhD committee of M. Cibot, defended 2012.
- Member of the PhD jury of Antony Borel (MNHN), defended 2010.
- Member of the PhD jury of Sabine Baussard (MNHN), defended 2009.
- Member of the scientific comity for an Associate Professor position, Toulon, 2009.

Scientific diffusion 2017 – 2023

General public Conferences (50)

● General public lectures in middle & high school, media library, library, Senior universities, schools, etc.

Magazine articles (70)

● Science News ● National Geographic (US) ● Le Daily Mail (UK) ● Cambridge TV
● BBC ● ABC news ● Discovery Channel ● Archaeology Magazine (US) ● Le Mirror (UK)
● Ça m'intéresse ● Ecologie ● Science & avenir ● Paris Match ● La Licorne ● Le Point ●
Libération ● Télégram ● Le Monde ● Journal Sud-Ouest, etc. ● European press

Television (25)

● France 5 : La grande Librairie (François Busnel), La Quotidienne
● Arte : Journal télévisé 28 minutes (Elisabeth Quin)
● France 2 : Journal Télévisé (Marie-Sophie Lacarrau), On n'est pas couchés (Laurent Ruquier), Je t'm etc (Daphné Bürki), Belle et bien.
● C8 : Journal Leymergie
● Public Sénat : Terra terre (Wendy Bouchard)
● TV 5 Monde
● E=M6
● RMC découverte (JJ Bourdin)
● France Infos TV
● Many interviews on the web

Radio (>50)

● France Inter – La tête au carré (Mathieu Vidard), le Temps d'un bivouac (Daniel Fiévet), Les sauteurs (Fabienne Chauvière), Le Journal inattendu (Christophe Hondelate), Libre Court (Anne Sinclair) ● France Info – Le livre du jour (Philippe Vallet) ● Europe 1 – C'est arrivé demain (David Abiker) ● Europe 1 – La vie devant soi – Isabelle Quenin ● RTL – Ma liste préférée (Eric Jean Jean) ● France culture ● RFI - Autour de la question (Caroline Lachowsky)
● Radio Nova ● Radio TV Suisse ● Radio TV Belge Francophone

Cinema/TV documentaires

● Contribution to "La Terre vue du Coeur", Hubert Reeve et Iolande Cadrin-Rossignol (Quebec) ● Conseillère scientifique pour Moonworks (documentaires scientifiques pour enfants) ● Conseillère scientifique pour Fleurus Editions ● Conseillère et co-auteur Moonworksprod programme jeunesse pour TV5 Monde, RTS, Télé-Québec, Arte Editions, Universcience, le Vaisseau et Noozy / CNRS image coproduction de film.

Events 2017 - 2022

● Exposition Intelligences animales – Espace des sciences, Rennes ● Exposition virtuelle "Animaux / Techno" de la bibliothèque de l'UIA de Versailles ● La science se livre ● Lecture jeunesse / adolescents ● Première Journée de l'Intelligence animale ● Fête de la Science/Le goût des Sciences ● ANIMOUV – Parc Zoologique de Paris ● Effervescence MNHN (conférence enfants) ● Exposition "De l'amour à donner, la vie intime du vivant", Muséum d'Histoire Naturelle de Toulouse. ● Animal Connect (sciences participatives MNHN)

Tennis 1993 – 2021

● 2018: French veteran team champion (over 45 years old) and team captain
● 1993 – 2017: Player and team captain in the French championship (National 3, 2 and 1)