

Contact information:

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Education:

2022-: Postdoctoral researcher, Leiden University
2017-22: PhD in Biological Sciences, National University of Singapore
2013-15: MA on Cognitive Semiotics, Århus Universitet 2013-15
2007-11: BA in English Philology, Universidad de Málaga & University of Edinburgh

Recent working experience:

2017-2021: **Teaching assistant** (Evolutionary biology; Animal behavior; Biodiversity fieldwork) at the National University of Singapore.
2015-2017: **Research assistant** at the Interacting Minds Center (Aarhus Universitet), Cognition and Behavior Lab (BSS Aarhus)

Honors and Awards:

2021 Awarded the "Lu Yinru" Graduate Travel Award by National University of Singapore
2021 Awarded the Presidential Postdoctoral Fellowship by Nanyang Technological University
2020 Awarded prize for the Best Oral Presentation at the BSGC 2020, Singapore.
2019 Work featured on the cover of PNAS September 24, 2019 116 (39)
2019 Awarded prize for the 2nd Best Oral Presentation at the PTNCEVI, Sep. 2019, Prague.
2019 Campus Vibrancy Award
2019 Student Life Award
2017 Awarded SINGA scholarship for 4 years of PhD at the National University of Singapore
2017 IMC seed funding: Human-Computer Interactions in Virtual Reality Environments
2017 IMC seed funding: The social space of demonstrative reference in interaction
2017 IMC seed funding: Orangutan movies - visual enrichment for orangutans
2016 Awarded a Scholarship to pursue graduate studies in any European institution by *la Caixa foundation* (959 applicants)
2013 Awarded a Scholarship to cover tuition costs at Aarhus University
2012 Awarded a Scholarship by the Spanish Ministry of Education to revise the bibliographical basis of the project *Tecnolengua* (automatic sentiment detection tool).
2009 Awarded a Scholarship by the *Junta de Andalucía* to study at the University of Edinburgh
2009 Awarded an Erasmus Scholarship to study one year at the University of Edinburgh
2007 Awarded a 4-year Scholarship by the Spanish Ministry of Education to pursue an undergraduate degree

Publications:

*publications as first author and corresponding author.

(11) *Perea-García, J. O., Kret, M. E., Monteiro, A., S/O Ramarajan. K., & Hobaiter, C. (*In preparation*). Ecological factors drive diversity in simian eye morphology and colouration.

(10) *Perea-García, J. O., Danel, D. P., & Monteiro, A. (2021). Diversity in Primate External Eye Morphology: Previously Undescribed Traits and Their Potential Adaptive Value. *Symmetry*, 13(7), 1270.

(9) Danel, D. P., Waciewicz, S., Kleisner, K., Lewandowski, Z., Kret, M. E., Żywiczyński, P., & **Perea-Garcia, J. O.** (2020). Sex differences in ocular morphology in Caucasian people: a dubious role of sexual selection in the evolution of sexual dimorphism of the human eye. *Behavioral Ecology and Sociobiology*, 74(10), 1-10.

(8) ***Perea Garcia, J. O.**, Miani, A., Alstrup, A. K. O., Malmkvist, J., Pertoldi, C., Jensen, T. H., ... & Bach, L. A. (2020). Orangulas: effect of scheduled visual enrichment on behavioral and endocrine aspects of a captive orangutan (*Pongo pygmaeus*): effect of scheduled visual enrichment on behavioral and endocrine aspects of a captive orangutan. *Journal of Zoo and Aquarium Research*, 8(1), 67-72.

(7) ***Perea-García, J. O.**, Kret, M. E., Monteiro, A., & Hobaiter, C. (2019). Scleral pigmentation leads to conspicuous, not cryptic, eye morphology in chimpanzees. *Proceedings of the National Academy of Sciences*, 116(39), 19248-19250.

(6) Danel, D. P., Waciewicz, S., Lewandowski, Z., Żywiczyński, P., & **Perea-Garcia, J. O.** (2018). Humans do not perceive conspecifics with a greater exposed sclera as more trustworthy: a preliminary cross-ethnic study of the function of the overexposed human sclera. *acta ethologica*, 21(3), 203-208.

(5) Ortuño, R. B., Toledo, F. J. C., **Perea García, J. O.**, & Gómez, N. R. (2018). " May I offend you?" An experimental study on perceived offensiveness in online violent communication and hate speech. *International e-journal of criminal sciences*, (12), 2.

(4) ***Perea García, J. O.**, Grenzner, T., Hešková, G., & Mitkidis, P. (2017). Not everything is blue or brown: Quantification of ocular coloration in psychological research beyond dichotomous categorizations. *Communicative & integrative biology*, 10(1), e1264545.

(3) Castro-Toledo, F. J., **Perea-García, J. O.**, Bautista-Ortuño, R., & Mitkidis, P. (2017). Influence of environmental variables on fear of crime: Comparing self-report data with physiological measures in an experimental design. *Journal of Experimental Criminology*, 13(4), 537-545.

(2) ***Perea García, J. O.**, Ehlers, K. R., & Tylén, K. (2017). Bodily constraints contributing to multimodal referentiality in humans: The contribution of a de-pigmented sclera to proto-declaratives. *Language & Communication*, 54, 73-81.

(1) ***Perea García, J. O.** (2016). Quantifying ocular morphologies in extant primates for reliable interspecific comparisons. *Journal of Language Evolution*, 1(2), 151-158.

Manuscripts (in preparation):

(3) van Gelderen, O. L., Kret, M. E., & **Perea-Garcia, J. O.** (*in preparation*). Effects of variation in iridal brightness in the perception of pupillary size changes.

(2) Danel, D. P., Waciewicz, S., Kleisner, K., Lewandowski, Z., Kret, M. E., & **Perea-Garcia, J. O.** (*in preparation*). Effects of variation in scleral brightness in the perception of hominid reconstructions.

(1) ***Perea-García, J. O.**, Hobaiter, C., Micheletta, J., Majolo, B., Marechal, L., Higham, J., Catellano-Navarro, A., Beltrán-Francés, V., Gupta, S., Gazagne, E., Albert-Daviaud, A., José-Domínguez, JM., Ruppert, N., & Monteiro, A. (*in preparation*). Evidence for photo-regulatory functions of external eye morphology in macaques (*Macaca spp*).

Invited talks

(4) The human eye from sensory to signaling organ. Center for Language Evolution Studies, Nicolaus Copernicus University, February 2022.

(3) Ecological factors drive external eye appearance in primates. Division of Genetics, Evolution, and

Ecology, (Department of Biology). Aarhus University, Dec. 2021.

(2) External primate eye morphology: where we're at and where we're going. Cognitive Sciences Seminar, Lund University, Feb. 2021.

(1) Comparative approach to the study of play in orangutans, Symposium Interacting Minds Centre, Feb. 2016.

Contributed talks

(16) Photopic drivers of external eye appearance in primates. CBEN2021, Tilburg.

(15) Prosociality and loss of pigmentation: Evidence for the Neural-Crest Cell hypothesis in anthropoid primates. BSGC2020, Dec. 2020, Singapore (Awarded Best Oral Presentation).

(14) Scleral pigmentation leads to conspicuous, not cryptic, eye morphology in chimpanzees. PTNCEVI, Sep. 2019, Prague (Awarded prize to 2nd best talk).

(13) Selection against aggression: Individual costs, inclusive benefits. CBEN2109, Amsterdam.

(12) The adaptive significance of de-pigmented sclerae reexamined. SALC7, May 2019, Aarhus, Denmark.

(11) Evidence from eye coloration supports a "cooperative split" within *Pongo spp.*, & *Pan spp.*, BSGC2018, Thailand, Dec. 2018

(10) Evolutionary origins of white sclerae in great apes & its adaptive value in humans, BSGC2017, Singapore, Dec. 2017

(9) Evolutionary origins of white sclerae in great apes & its adaptive value in humans, 9th Duke-NUS Symposium, Singapore, Oct. 2017

(8) Human eyes as a sign stimulus during eye contact, PTNCEIII, Toruń, Poland, September 2016.

(7) Semiotic exaptations in the homo genus: the unique morphology of the human eye, Protolang4, Rome, Italy, September 2015.

(6) The complex nature of language and face-to-face interaction, 56th StuTS, Germany, 22nd November, 2014

(5) Introspection as a research tool, (*Center for Semiotics*), Student Symposium 2014.

(4) Cooperation as a major drive for the evolution of cognitive abilities in the homo genus, IACS 2014, Sweden, September 2014

(3) Artifacts in Sociogenesis and Cognition, ICoN2014, Kaunas, Lithuania, June 3, 2014

(2) Reassessing linguistics in understanding human communication, 54th StuTS, Germany, 13th Nov. 2013

(1) Evolutionary view of facially transmitted information (*Center for Semiotics*), Student Symposium 2013.

Outreach

(3) Work featured on the E.D.G.E YouTube channel (<https://youtu.be/Fuo7axCWJ4>)

(2) Great Ape Eye Coloration, Conversas #153, Oct. 2019, Rotterdam (Netherlands).

(1) Work featured on 9 major news outlets in English, German, Dutch, and Spanish:

<https://pnas.altmetric.com/details/65864721/news>

Research supervision and mentoring

Masters

(2) Supervision of Masters student: 'Human iridial polymorphisms: adaptive significance of iridial polymorphisms in humans', at Leiden University (ongoing).

(1) Supervision and data collection in observational study - effects of visitor numbers on the behavior of *Pan troglodytes*, Aalborg Zoo and Aalborg University, Denmark (completed)

Undergraduate

(4) Supervision of undergraduate student: Tolerance of long-tailed macaques (*M. fascicularis*) to the gaze of humans in urban and forested areas, at NUS (ongoing).

(3) Supervision of undergraduate student: Parenting styles' influence on sexual imprinting in Singaporeans (FYP), at NUS (completed).

(2) Supervision of undergraduate student: Quantitative measurements of external eye morphology in

simian primates at NUS (completed).

(1) Supervision of undergraduate student group: Survey of coprophagous beetles in Pulau Tioman (completed).

Reviewer for

- (6) Scientific Reports (Nature)
 - (5) Evolutionary Psychology (SAGE)
 - (4) Current Eye Research (Taylor & Francis)
 - (3) Journal of Language Sciences (Elsevier)
 - (2) Language and Communication (Elsevier)
 - (1) Interaction Studies (John Benjamins)
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Languages

Spanish (native), **English** (116/120 TOEFL iBT), **French** (DELF B2), **Bahasa Indonesia** (beginner), **Swedish** (beginner), **Danish** (beginner)

Other

Driving licence (B1). Certificate "**Protecting Human Research Participants**" (NIH). Certificate "**Responsible Conduct of Research**" (CITI). Former President of the **DBS Graduate Student Society**. Former President of the **Edinburgh University Spanish Society**. Comfortable with **statistical analysis** software (R) and techniques, **project management** tools, software for **presentation of stimuli**. Experienced with collection of physiological data, 3-D modelling and animation (Blender 3D), UNIX, tools for the analysis of whole-genome data, reconstruction of ancestral traits (BayesTraits and Mesquite). Basic command of GIS techniques (extraction of coordinates from shape files, handling vector and raster data in R).