Dimitri NEAUX
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Archéozoologie, Archéobotanique :
Sociétés, Pratiques et Environnements
Département Homme et Environnement
Muséum National d'Histoire Naturelle
UMR 7209 CNRS, Paris, France

Research interests
-Evolution of the skull in mammals
-Characterization and quantification of shape
-Morphological integration and modularity

Current position
Since 2018 Postdoctoral Fellow. Supervisor: Dr Thomas Cucchi
Archéozoologie, Archéobotanique : Sociétés, pratiques et environnements
UMR 7209 CNRS-Muséum National d'Histoire Naturelle, Paris, France

Previous positions
2016-2017 Postdoctoral Fellow. Supervisor: Prof Stephen Wroe
Function, Evolution and Anatomy Research lab, Department of Zoology
University of New England, Armidale, Australia
2013-2015 Teaching and Research Assistant
Laboratoire Paléontologie, Evolution, Paléoécosystèmes, Paléoprimatologie
UMR 7209 CNRS--Université de Poitiers, Poitiers, France

Education
2010-2013 Doctorate in Paleontology with highest honours, Université de Poitiers
Covariations of craniofacial structures in hominids
Supervisors: Dr Franck Guy et Dr Stéphane Ducrocq
2008-2010 Master in Paleontology with honours, Université de Montpellier
2005-2008 Bachelor in Geology, Université de Poitiers

Tools and methods
-Microtomography (scanner, reconstruction)
-Digital imaging (Avizo, Meshlab, Geomagic, ImageJ)
-3D geometric morphometrics
-Multivariate statistics and data analysis

Scientific publications
Neaux D, Sansalone G, Ledogar JA, Heins Ledogar S, Luk THY, Wroe S (2018). Basicranium and face: Assessing the impact of morphological integration on primate evolution. *Journal of Human Evolution*. 118: 43-55

Ledogar JA, Luk TH, Perry JMG, Neaux D, Wroe S (2018) Biting mechanics in a specialized clade of primate seed predators. *Plos One*. 13(1): e0190689

Neaux D, Bienvenu T, Guy F, Sansalone G, Ledogar J, Rae TC, Wroe S, Brunet M (2017) Relationship between foramen magnum position and locomotion in extant and extinct hominids. *Journal of Human Evolution*. 113:1-9

Neaux D (2017) Morphological integration of the cranium in *Homo*, *Pan* and *Hylobates* and the evolution of hominoid facial structures. *American Journal of Physical Anthropology*. 162(4): 568-579

Neaux D, Gilissen E, Coudyzer W, Guy F (2015) Integration between the face and the mandible of *Pongo* and the evolution of the craniofacial morphology of orangutans. *American Journal of Physical Anthropology*. 158 (3): 475-486

Neaux D, Gilissen E, Coudyzer W, Guy F (2015) Implications of the relationship between basicranial flexion and facial orientation for the evolution of hominid craniofacial structures. *International Journal of Primatology*. 36 (6): 1120-1131

Neaux D, Guy F, Gilissen E, Coudyzer W, Vignaud P, Ducrocq S (2013) Facial orientation and facial shape in extant great apes: a geometric morphometric analysis of covariation. *Plos One*. 8(2): e57026

Neaux D, Guy F, Gilissen E, Coudyzer W, Ducrocq S (2013) Covariation between midline cranial base, lateral basicranium and face in modern humans and chimpanzees: a 3D geometric morphometric analysis. *The Anatomical Record*. 296 (4): 568-579

Book chapter

Neaux D, Guy F, Gilissen E, Coudyzer W, Vignaud P and Ducrocq S (2013) Craniofacial covariation in extant great apes: a geometric morphometric study. In: Lestrel PE, editor. Biological Shape Analysis. New Jersey: World Scientific. p 193-206. ISBN: 9814518409

Main oral communications

2018 – Basicranium and face: Assessing the impact of morphological integration on primate evolution. Journées de la Société d'Anthropologie de Paris (Poitiers, France)

2016 – Morphological integration and evolution of craniofacial structures in hominoids. 9ème symposium de morphométrie et évolution des formes (Paris, France)

2016 – Interest of the study of morphological integration in the craniofacial structures of hominids. PACEA, Université de Bordeaux (Bordeaux, France)

2015 – Morphological integration of the face in humans and chimpanzees and the evolution of early hominin craniofacial structures. Museo Nacional de Ciencias Naturales (Madrid, Spain)

2013 – Covariation entre morphologie et orientation de la face chez les grands singes actuels. 7ème Symposium de Morphométrie et Evolution des Formes (Lyon, France)

Professional services

-Peer review: American Journal of Physical Anthropology (x2), Plos One (x2), Journal of Anatomy (x2), The Anatomical Record (x2), Journal of Comparative Human Biology (x2), Biodiversitas, European Journal of Human Genetics, Bulletins et Mémoires de la Société d'Anthropologie de Paris, Journal of Applied Oral Science

-Grant review: Leakey Foundation (x2)

-Postdoctoral representative at the UMR CNRS 7209 laboratory council

Teaching experience

Lectures, tutorials and practical works to undergraduates and graduates:

2013-2015: 192 hours per year, as a teaching and research assistant

2011-2013: 64 hours per year, during my thesis

-Paleontology (paleoanthropology, evolution of vertebrates and invertebrates, fieldwork)

-Statistics (descriptive statistics, multivariate analysis, analysis of regression/correlation)

-Geology (sedimentology, petrology, tectonics, cartography)

Supervision of Master students

2015 – Two students: "Evolution of the cranial base flexion in hominids", "Characterization and quantification of airorhynchy in pongids"

2014 – One student: "Link between blood flow and brain size in hominids"

Languages

-French: native speaker

-English: fluent (TOEFL iBT: 107/120)