

Sélim NATAHI



Current and Past Positions

- 2022-present** Department of Paleoanthropology, Centre Interdisciplinaire de Recherche en Biologie (CIRB) - UMR 7241 – U1050, Collège de France
Postdoctoral Fellow
Project: Assessing the evolution of brain energetics expenditure via cerebral blood flow rates in the human lineage from Middle to Late Pleistocene
- 2020-2022** Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany
Fyssen Foundation Postdoctoral Fellow
Project: Investigating the variation of cranial vault thickness and its respective structural layers jointly with brain shape and chewing musculature among Neanderthals and present-day humans.

Education

- 2016-2019** University of Bordeaux, Bordeaux, France
PhD in Biological Anthropology
Thesis: Contribution of 3D imaging techniques to the identification and characterization of artificial cranial modifications among West Mesoamerican populations.
- 2012-2014** University of Bordeaux, Bordeaux, France
MSc in Biological Anthropology
Thesis: Study of the Tarascan skulls from the El Palacio archaeological site: cranial modification practices and biological homogeneity of the group.
- 2010-2012** University of Paris 1: Panthéon-Sorbonne, Paris, France
MA in Pre-Columbian Archaeology
Thesis: Chemical characterization of pre-Columbian pigments: uses and implications on the health of the population of the Teopancazo barrio in Teotihuacan.
- 2007-2010** University Paris 1: Panthéon-Sorbonne, Paris, France
BA in Archaeology

Teaching Experience

Lectures:

2016-2018 **Lectures** in *Biological diversity and evolution of human populations* and *Paleobiology* for undergraduate students in Biological Anthropology and Prehistory (30 hours – Biogeosciences Master Program).

Supervision:

Master thesis

2021 MSc Clara Delluc
Thesis: *Dynamics of pre-Hispanic human settlements in the northern Mesoamerican fringe: contribution of the study of variations in the internal structure of teeth.* Supervision: Priscilla Bayle, **Sélim Natahi** and Grégory Pereira.

Poster Symposium of Undergraduate Students

2020 Justine Bourreau
Morphological and genetic analyses of artificially modified crania from the migration period (4th – 7th century ad) in Central Europe.

2019 Emilie Dedieu
The Collapse of the Classic Maya in the Pasión region.

2018 Laura Maréchal
Artificial cranial modification in the Andes: how a cultural practice can affect growth, development and craniofacial metrics.

Complementary Experiences

2016 **Engineer in Physical Anthropology**
- Biodistances study of the CEMCA (*Centro de Estudios Mexicanos y Centroamericanos*) Anthropological collections

2015-2016 **Engineer in Virtual Anthropology**
- Virtual segmentation and reconstruction of a Gravettian child mandible from Gargas (fragments 646a and 646b)
- Virtual segmentation of the Neanderthal remains from Sirogne, Rocamadour (Lot)

Internships:

2015 **Max Planck Weizmann Center for Integrative Archaeology and Anthropology (MPI-EVA)**
Effects of mastication in patients surgically treated for unilateral condylar hyperplasia of the mandible

2014 **American Museum of Natural History**
Study of the Lumholtz Tarascan skulls collectio

Trainings

- 2015** **Training Course** *Morphométrie et analyse des formes*, Museum National d'Histoire Naturelle, Paris, France (20 – 24 apr)
- 2014** **Training Course** *Analysis of Organismal Form*, Faculty of Life Sciences, University of Manchester, UK (3 nov – 12 dec)

Languages

FRENCH (mother tongue), **ENGLISH** (advanced), **SPANISH** (advanced) and **GERMAN** (limited proficiency)

List of publications

Natahi (S.) (*in press.*) Identifying and characterizing artificial cranial modifications in western Mesoamerican populations: inputs from 3D imaging and shape quantification techniques. In F. d'Errico & F. Manni *The Handbook of the Archaeology and Anthropology of Body Modification*.

Natahi (S.), Neubauer (S.), Tsegai (Z.J.), Jean-Jacques Hublin (J.-J.) & Gunz (P.) (*in prep.*) Covariation of endocranial shape and cranial vault thickness in present-day humans and neandertals.

Natahi (S.), Coquerelle (M.), Darras (V.), Faugère (B.), Fisher (C.T.), Pereira (G.), Bayle (P.) (*in prep.*) Identification and characterization of artificial cranial modifications among pre-Hispanic West Mesoamerican populations using covariation analysis of cranial vault thickness arrangement and calvaria bones shapes.

Le Luyer (M.), Villotte (S.), Bayle (P.), **Natahi (S.)**, Thibeault (A.), Dutailly (B.), Vercoûtère (C.), Ferrier (C.), San Juan-Foucher (C.) and Foucher (P.) (2022) Mandible and teeth characterization of the Gravettian child from Gargas, France. *Bulletins et mémoires de la Société d'Anthropologie de Paris* 34(1).

Natahi (S.), Coquerelle (M.), Darras (V.), Faugère (B.), Fisher (C.T.), Pereira (G.), Bayle (P.) (2021) Evaluating the efficiency of isolated calvaria bones shape changes in the identification and differentiation of artificial cranial modification techniques among pre-Hispanic west Mesoamerican populations. *Journal of Archaeological Science: Reports* 39: 103181.

Natahi (S.), Coquerelle (M.), Pereira (G.), Bayle (P.) (2019) Neurocranial shape variation among Tarascan populations: Evidence for varying degrees in artificially modified crania in pre-Hispanic West Mexico (1200–1400 AD). *American Journal of Physical Anthropology* 170(3): 418-432.

Natahi (S.) (2019) *Compte-rendu : Thomas J (2016) Les Incas et la déformation intentionnelle du crâne. Un marqueur social, culturel, ethnique et religieux - Presses universitaires de Nancy - Éditions universitaires de Lorraine, ISBN : 978-2-8143-0278-5, 136 pages, 12 €.*

Vázquez de Ágredos Pascual (M.L.), **Natahi (S.)**, Darras (V.), Manzanilla Naim (L.R.) (2019), Materiality and Meaning of Medicinal Body Colors in Teotihuacan. In E. Dupey Garcia and M.L. Vazquez de Agredos Pascual, *Colors on the Skin. Studies on the Pigments Applied on Bodies and Codices in Pre-Columbian Mesoamerica*, pp. 21-42, Arizona State University Press, Tempe.

Pereira (G.), Barrientos (I.), **Natahi (S.)** (2018) El mundo de los muertos. In *La Ciudad Perdida. Hacia los orígenes del Estado tarasco* (Pereira G. ed.), INAH-Embajada de Francia en México, México D.F.