

# Dr. Guillaume Antoine BILLET

## Professional address

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## Personal address

24, rue de Lappe  
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FRANCE

## Date and place of birth

Born on 24th July 1982 in Saint-Michel d'Entraygues (16, France).

## Nationality

French

## Current situation

*Since 12/2013*      **Assistant Professor at the Muséum national d'Histoire naturelle (MNHN), Research Centre on Palaeobiodiversity and Palaeoenvironments (CR2P), Muséum national d'Histoire naturelle (MNHN), Paris (France).**

## Past professional Experience and Grants

*08/2012-11/2013*      **Post-doctoral researcher at the Muséum national d'Histoire naturelle (MNHN funding),** in collaboration with Prof. C. de Muizon.  
*Research Centre on Palaeobiodiversity and Palaeoenvironments (CR2P), Muséum national d'Histoire naturelle (MNHN), Paris (France).*

*07/2010-07/2012*      **Post-doctoral research fellow of the A. von HUMBOLDT Foundation,** in collaboration with Prof. Thomas Martin.  
*Steinmann Institut für Paläontologie, Bonn University (Germany).*

*03-07/2010*      **Language fellow (A. von Humboldt), german courses in the Goethe Institut**  
*Bonn-Bad Godesberg (Germany).*

*2008-2009*      **Assistant lecturer and researcher contractual position « ATER »,** in Paleontology: lectures, tutorials and practical work at Bachelor and Master levels, and supervision of a Bachelor thesis.  
*iPHEP - UMR 6046 CNRS, University of Poitiers (86) (France).*

*2005-2008*      **Assistant lecturer (CIES Jussieu)** in Geology, publication of popularization works and realization of guided tours through the "Jardin des Plantes" and "Galerie de l'Évolution", Muséum national d'Histoire naturelle, Paris (France).  
*Muséum national d'Histoire naturelle, Paris (France).*

*2005-2008*      **Beneficiary of a PhD research Grant** of the French Ministry of National Education, Research and Technology.  
*Muséum national d'Histoire naturelle, Paris (France).*

## Work Interruption

1-31 October 2011      **Knee surgery (ligamentoplasty)**  
*Bordeaux (France).*

## University Degrees

2005-2008      **PhD thesis** in Paleontology, « La faune de notongulés (Mammalia) de l'Oligocène supérieur de Salla (Bolivie) : phylogénie et affinités d'un groupe d'ongulés endémiques du Tertiaire d'Amérique du Sud »  
*Muséum national d'Histoire naturelle, Paris (75) (France).*

2004-2005      **Master 2** in Systematics, Evolution and Paleontology  
*P. et M. Curie University, Paris VI, Paris (75) (France).*

2003-2004      **Master 1** in Earth Sciences and Paleontology  
*University of Poitiers (86) (France).*

2000-2003      **Bachelor's degree** in Earth Sciences  
*University of Poitiers (86) (France).*

1999-2000      **Baccalaureate** in Sciences, Biology speciality  
*Elie Vinet High School, Barbezieux (16) (France).*

## Research topics

*Key-words:* evolutionary biology, mammals, morphology, paleontology, systematics, placentals, South America, endemism, (paleo)biogeography, anatomy, diversity, taxonomy, Cenozoic, fossils, factors associated with morphological evolution, functional morphology, morphological convergence, ontogeny, skull, dentition, ear.

## Curation responsibilities

Curator of the fossil mammal collection of the MNHN

## Funded research projects

### As a principal investigator

Funding for a supervised postdoctoral project "Morphological convergence and functional inferences: an integrative study of the masticatory apparatus in rodents and extinct notoungulates" (supervised by **G. Billet**, A. Herrel and R. Cornette, MNHN), starting from June 2015, two-year postdoc funded by LabeX BCDiv. Postdoctoral student: Helder GOMES RODRIGUES.

Funding for a Master project co-supervised by Helder GOMES RODRIGUES and **G. Billet**, entitled "Evolution of incisor enamel microstructure in rodent-like notoungulates in relation to functional properties of their masticatory apparatus", 5 months funded by LabeX BCDiv, starting from February 2016.

Synthesys Research project GB-TAF 5606 Integrative systematics of pangolins (Mammalia, Pholidota) – PART 1: funding for a 3 week-stay, and 5 days of CT-scanning at the NHM (London, UK); completed in October 2016.

Synthesys Research project BE-TAF 5661 Integrative systematics of pangolins (Mammalia, Pholidota) – PART 2: funding for 2 week-stay at the MRAC Stervuren, Belgium); completed in December 2016

### As an associate investigator

GRAVIBONE: ERC starting grant on Graviportal adaptations in tetrapod long bones. Coordinated by and allocated to PI A. Houssaye (MECADEV, MNHN). G Billet as a team member (10%).

TATU: Integrating state-of-the art molecular and morphological tools to disentangle the taxonomy and biogeography of the long-nosed armadillo species complex (genus *Dasybus*). Coordinated by F. Delsuc (ISEM Montpellier), funded for 2 years by the LABEX-CEBA in 2014-2015 (data acquisitions (incl. CT-scans, DNA analyses) and missions; 2x20 000 euros).

ESRF Project with A. HOUSSAYE in 2014, for the use of Synchrotron facility to study long bone histology of some South American native ungulates.

National Geographic Society Committee for Research and Exploration Grant #9394-13: awarded for the fieldwork project "Affinities and biogeography of South America's native mammals: cranoskeletal evidence from Paleocene of Bolivia" coordinated by Christian de Muizon (MNHN, Paris) in 2014-2015.

### Member of the following funded teaching project

AFFRODIT, COMPLETE details; as one of the three leading teachers for the proposal and until its completion (with D. Germain and A. Vialet, MNHN); 40 000 euros funded in 2014 and 40 000 euros for 2015 by Sorbonne Universities, Paris.

### Editorial responsibilities

Recommender of the Peer Community In (PCI) Evol Biol since 2017:

<https://evolbiol.peercommunityin.org/public/viewUserCard?userId=677>

Member of the Editorial Board of *MorphoMuseum*; see online at <http://morphomuseum.com/contact>

Reviewer for more than 23 international peer-reviewed journal

### Teaching responsibilities

Co-responsible of module SEP 11 "paléontologie" in Master1 SEP, MNHN-Paris 06, starting from September 2016

### Research responsibilities and invitations to conferences

Member of the ISDM IAPO scientific board; responsible of the session "Dental evolution in deep time", Bordeaux October 2017.

Convener of IPC5 Symposium "Fossils & Recent, molecules & morphology: dialogs in phylogenetics" to be held in 2018.

Invited speaker to Symposium "Show me your ear" at ICVM 2016, Washington, US.

Invited speaker (poster) to Symposium "Xenarthra" at ICVM 2016, Washington, US.

### Student supervision

Bachelor internship:

- Andréa Filippo, Univ. Amiens, (3 weeks in 2014)

Master thesis (year one):

- Pauline Maïer, Univ. Poitiers, (2009)
- Rémi Lefebvre, MNHN (2016)
- Miranda Kouvari, MNHN (2017)
- Léa de Brito, MNHN (2017)

Master thesis (year two):

- Alice Percher, Univ Paris VII (2014)
- Florence Coutier, Univ Lyon (2015)
- Andréa Filippo, Univ Paris VI (2016)
- Rémi Lefebvre, MNHN (2017)

PhD:

- Christophe Mallet (2017-2020), co-supervision with A. Houssaye and R. Cornette (MNHN, ERC funding)

Postdoctorate:

- Helder GOMES RODRIGUES (2015-2017)

### Member of PhD committees

-Juan Carrillo, Marcelo Sanchez's lab, Paläontologisches Institut und Museum, Universität Zürich, SWITZERLAND, May 2017.

-Arnaud Schmitt, CR2P MNHN, FRANCE; October 2016.