

Valentine Bouju

ORCID 0000-0003-3185-5047

+33 6 72 93 34 84

valentine.bouju@gmail.com

20 rue de la Madeleine
35410 Châteauvallon, France



RESEARCH PROJECTS

POST DOCTORAL FELLOWSHIP

WHAT DOES MIOCENE DOMINICAN AMBER UNVEIL ABOUT FORMICIDAE ECOLOGICAL & BIOGEOGRAPHICAL EVOLUTION?



2024-2026

PI Dr. B.D. Farrell

DEP. ORGANISMIC AND EVOLUTIONARY BIOLOGY
HARVARD UNIVERSITY, CAMBRIDGE, USA

Ants inclusions in Dominican amber

- Systematic study of inclusions
- Biodiversity and ecological implications
- Biogeographical implications
- Palaeoenvironmental reconstructions

Studied collections/Laboratory missions

- Museum of Comparative Zoology, Harvard Univ., USA
- Geological Department and Museum of Rennes, Rennes Univ., France
- Science Museum of Barcelona, Barcelona, Spain

THESIS

PALAEODIVERSITY AND PALAEOENVIRONNEMENTS OF AFRICAN CRETACEOUS AND MIOCENE AMBERS



2018-2021

sup. Dr. V. Perrichot

RENNES1 UNIV., GÉOSCIENCES RENNES
RENNES, FRANCE

Congolese and Ethiopian ambers

- Systematic study of arthropod inclusions
- Systematic study of cryptogam inclusions
- Biogeographical implications
- Biodiversity and ecological implications
- Palaeoenvironmental reconstructions
- Sedimentary context and dating of Eth. amber

Ongoing studies

- Congolese amber dipteran diversity and implications
- Ethiopian amber dipteran diversity and implications
- Dating of Ethiopian amber

Field trip mission

ADDIS ABEBA - AMHARA (NORTH SHEWA ZONE)
ETHIOPIA, JUNE 2018

Laboratory missions

- Museum of Amber Inclusions of Gdańsk, Gdańsk, Poland, 2019
- Center of Geosciences, Göttingen, Germany, 2019

MUSEUM COLLECTION

Inventory of Cenozoic Baltic amber Diptera collection

2012-2024

curator D. Demarque

NATURAL HISTORY MUSEUM & PLANETARY & GEOSCIENCES LAB.
NANTES, FRANCE

PRE-THESIS

Actuo-taphonomical study of entrapment of aquatic organisms in resin

2018 - Master's degree internship
sup. Pr. X. Delclòs Martínez

DEPT. OF EARTH & OCEAN DYNAMICS, UNIV. BARCELONA
BARCELONA, SPAIN

Myrmecaria and Proatta (Formicidae, Myrmicinae) in Miocene amber from Zhangpu (China)

2017 - Master's degree internship
sup. Dr. V. Perrichot

GÉOSCIENCES RENNES, RENNES1 UNIV.
RENNES, FRANCE

Cretaceous microfossil assemblage in silex tools from Menez-Dregan (France)

2017 - Master's degree internship

sup. Pr. D. Néraudeau & Dr. A.L. Ravon
GÉOSCIENCES RENNES & CREAAH, RENNES1 UNIV.
RENNES, FRANCE

Vertebrate palaeofauna and palaeoenvironment of lower Cenomanian from Charente (France)

2015 - Bachelor's degree internship
sup. Dr. R. Vullo

GÉOSCIENCES RENNES, RENNES1 UNIV.
RENNES, FRANCE

GRANTS

EGAAL mobility - EGAAL DOCTORAL SCHOOL

2019 - Research laboratory visit (400€)

2020 - Conference participation (500€)

2021 - Conference participation (500€)

ThéGéo - GEOSCIENCES RENNES

2020 - Conference participation (500€)

Erasmus + - EUROPEAN COMMISSION

2018 - Research Internship (1443€)

MENTORING

Study of a Diptera assemblage in Cenozoic Baltic amber

Zoé Mémeteau

BACHELOR'S DEGREE RESEARCH INTERNSHIP

2024 - NANTES UNIV.

Study of a Ceratopogonidae (Diptera) in Cenozoic Baltic amber

Justine Edelin

BACHELOR'S DEGREE RESEARCH INTERNSHIP

2023 - NANTES UNIV.

Study of a Mycetophilidae (Diptera) in Miocene Ethiopian amber

Marion Griffon & Simon Rosse G.

MASTER'S DEGREE RESEARCH INTERNSHIP

2020 - RENNES1 UNIV.

Origin and diversification of pollinating and social insects

Mélanie Herbert & Fatima Z. Bouhdayad

MASTER'S DEGREE LITERATURE INTERNSHIP

2019 - RENNES1 UNIV.

PEER REVIEW PUBLICATIONS

Bouju V., Feldberg K., Kaasalainen U., Schäfer-Verwimp A., Hedenäs L., Buck W.R., Wang B., Perrichot V., Schmidt A.R., 2022. Miocene Ethiopian amber: a new source of fossil cryptogams: *Journal of Systematics and Evolution*, 60(4), 932-954. doi: 10.1111/jse.12796.

Bouju V., Jouault C., Perrichot V., 2022. The termite genus *Glyptotermes* (Isoptera: Kalotermitidae) in Miocene amber from Ethiopia. *Journal of Paleontology*, 96(2), 387-393. doi: 10.1017/jpa.2021.106.

Bouju V., Rosse-Guillevic S., Griffon M., Bojarski B., Szewo J., Perrichot V., 2021. The genus *Allodia* (Diptera: Mycetophilidae) in Miocene Ethiopian amber. *Fossil Record*, 24, 339-346. doi: 10.5194/fr-24-339-2021.

Bouju V. & Perrichot V., 2020. A review of amber and copal occurrences in Africa and their paleontological significance. *BSGF-Earth Sciences Bulletin*, 191(17). doi: 10.1051/bsgf/2020018.

RESEARCH REPORT

Gaillard C., Ravon A.-L., Monnier J.-L., [...] **Bouju V.**, 2017. *Plouhinec (Finistère), Menez-Dregan I, From Preneanderthals to Neanderthals, first Palaeolithic occupations*. Triennial Report on programmed excavations, CNRS-UMR 6566, CReAAH, CNRS-UMR 7194 HNHP, Rennes1 Univ., Cult. and Comm. Min., MNHN, Gen. Cons. of Finistère, Plouhinec City Council, 137 p (in french).

CONFERENCES (oral presentations)

INTERNATIONAL EVENTS

INTERNATIONAL ORGANISATION OF PALAEOBOTANY CONFERENCE
2024 - PRAGUE, CZECH REPUBLIC
The Miocene Ethiopian record of a cryptogam community in amber

FOSSIL RECORD IN RESINS AND SEDIMENTS MEETING
2023 - GDANSK, POLAND
What is Ethiopian amber telling us about Miocene African forest ecosystem?

11TH EUROPEAN PALAEOBOTANY AND PALYNOLOGY CONFERENCE
2022 - STOCKHOLM, SWEDEN
Fossil cryptogam community from Miocene Ethiopian amber

AGORA PALEOBOTANICA ANNUAL MEETING
2021 - LIEGE, BELGIUM
Cryptogams from Miocene Ethiopian amber

NATIONAL EVENTS

ANNUAL MEETING OF THE FRENCH PALAEOONTOLOGICAL ASSO.
2022 - MONTPELLIER, FRANCE
A glimpse into the first Cenozoic fossiliferous amber from Africa
2021, TROYES, FRANCE
Cryptogams from Miocene Ethiopian amber

27TH EARTH SCIENCES MEETING
2021 - LYON, FRANCE
Geology and palaeontology of Congolese amber, the first Cretaceous fossiliferous amber from Africa

SCIENTIFIC SOCIETIES MEMBER

The Agora Paleobotanica association
The French Palaeontological association
The French Geological Society
Plant/Insect interactions discussion group
Early career researchers reflexion group (palaeontology)

OUTREACH SCIENCES

WIDE SCIENTIFIC AUDIENCE

LABORATORY TALKS
SEPT 2022 - NANTES, FRANCE
Amber in palaeontology: a glance at past ecosystems
EGAAL DOCTORAL SCHOOL SCIENTIFIC DAYS CONFERENCES
MAY 2021 - VIRTUAL EDITION
Fossil inclusions in amber: a window to the past

POPULAR SCIENCE CONFERENCES

THE LAST JEUDI (SPACEUP)
Impacts of meteorites on the palaeobiosphere
JUNE 2023 - NANTES, FRANCE
PALAEO BRITANNY CONFERENCES
Cretaceous microfossils in Menez Dregan I silex tools
MAY 2018 - PLOUHINEC, FRANCE

SCIENTIFIC ANIMATIONS

LES P'TITS CUEILLEURS D'ETOILES (ASSOCIATION)
Scientific animations at children hospitals
Member in Nantes from 2022 to 2024
Created animation: *Beware of falling meteorites in palaeontology!*
NANTES, FRANCE
SCIENCE FAIR
Stand animation: *Natural variability in our climate* (LPG Nantes)
2022 - NANTES, FRANCE
PALAEOLITHIC HERITAGE OF LE ROZEL, NORMANDY
Archaeological excavation and guided tours
2014-2018 - LE ROZEL, FRANCE

SCIENTIFIC JOURNALISM

Researcher-Journalist Exchange (AJSPI)
1- Editorial internship *Pour la Science* (Paris)
2- Mentoring a journalist on a laboratory internship
2023 - NANTES AND PARIS, FRANCE

PROMOTING SCIENTIFIC STUDIES AND CAREERS

Ambassador for researchers/students dialogues
2022-2023 - France
Students/researchers meetings
2022-2023 - NANTES, FRANCE
2018 - RENNES, FRANCE
University open days
2020 - RENNES1 UNIV., RENNES, FRANCE
2019 - RENNES1 UNIV., RENNES, FRANCE

TEACHING

Qualification as a lecturer & museum lecturer
CNU sections 36 & 68 (2022)

Teaching and research assistant

2022 - 2024

NANTES UNIV. & PLANETARY & GEOSCIENCES LAB.
NANTES, FRANCE

PhD - teaching assistant

2018 - 2021

RENNES1 UNIV. & GÉOSCIENCES RENNES
RENNES, FRANCE

BACHELOR'S DEGREES:

EARTH AND UNIVERSE SCIENCES

GEOLOGY AND ENVIRONMENT

BIOLOGY AND GEOLOGY

ORGANISM BIOLOGY

MASTER'S DEGREES:

PALAEONTOLOGY

TEACHING CAREERS

PALAEOENVIRONMENT AND EVOLUTION

Lectures

Fossilisation and Taphonomy

Early terrestrial ecosystems

Origin and evolution of land plants

The Cenozoic Sea of Falun

Palaeolithic heritage of Brittany

Practicals

Main fossil taxas

Origin and evolution of land plants

Climatology (palaeotemperatures; sea level)

Fieldworks

Marine Palaeozoic: Brittany (Fr)

Terrestrial Palaeozoic: Hérault (Fr)

Marine Mesozoic: Normandy, Anjou (Fr)

SEDIMENTOLOGY AND STRATIGRAPHY

Lectures

Sedimentary Petrology

How to date sedimentology

Practicals

Sedimentary Petrology

Paris basin

Fieldworks

Sedimentary Geology: Vendée (Fr)

Glacial/fluvial sedimentology: Cantal (Fr)

Metamorphism and sedimentology: Hérault (Fr)

CARTOGRAPHY

Practicals

Fundamentals of Cartography

Terrestrial atlas (geo/hydro/oceano/climato/ecology)

Fieldworks

Maps, GPS, azimuth, and other tools on the field

FUNDAMENTALS OF GEOLOGY

Practicals

Petrology

Mineralogy

Sismology

Palaeomagnetism

Terrestrial rheology

Solar flux

CURRICULUM

Thesis in Palaeontology

Palaeobiodiversity and palaeoenvironments of African Cretaceous and Miocene ambers

sup. V. Perrichot

2018 - 2021

GÉOSCIENCES RENNES, RENNES1 UNIV.

RENNES, FRANCE

Master's degree

Palaeontology, Palaeoenvironment, Heritage

2016 - 2018

GÉOSCIENCES RENNES, RENNES1 UNIV.

RENNES, FRANCE

Bachelor's degree

Biology and Geology

2013 - 2016

RENNES1 UNIV.

RENNES, FRANCE

Scientific A-levels diploma

with merit

2013

HIGH-SCHOOL SÉVIGNÉ

CESSON-SÉVIGNÉ, FRANCE

TRAININGS

Teaching tools

Reaching international and hard of hearing audience

2022 - NANTES UNIV., NANTES, FRANCE

Voice and body, the teacher's instruments

2019 - RENNES, FRANCE

Methodology

R, statistical data analysis

Formatting and backing up data

Access to data: where and how to provide it

Scientific data monitoring

Finding and re-using data

Zotero, bibliographic tool

2018-2019 - RENNES, FRANCE

Legal regulation and research ethics

Research ethics and scientific integrity

Academic plagiarism, unintentional plagiarism

Intellectual property: legal rules

2019 - RENNES, FRANCE

SKILLS

Softwares

OpenOffice

Adobe Photoshop

Adobe Illustrator

Helicon Focus

R

Scientific events organisation

communication

website design and monitoring

registration and submission platforms

event organisation

Languages

French (native)

English (C1, TOEIC 2017 : 91/99)

Spanish (B2)

German (A1)

Other

driving licence AM/B1/B

OTHER RESPONSABILITIES

Department committee

Earth and Universe Sciences department

2022 - 2024

NANTES UNIV., NANTES, FRANCE

Organizing committee

EGAAL Doctoral School Scientific Days

2018-2019 (1st edition), 2019-2020 (virtual), 2020-2021

RENNES UNIV., RENNES, FRANCE