

Laurence Dumouchel

The George Washington University
Center for the Advanced Study of Human Paleobiology
Department of Anthropology
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RESEARCH INTERESTS

Human evolution, Zooarcheology, Eastern Africa, Taphonomy, Geospatial statistics

EDUCATION

- 2013-2018 *Ph. D.* - Human Paleobiology
George Washington University, Washington, D.C.
Co-supervisors: René Bobe and Bernard Wood
- 2013-2016 *M. Phil* – Human Paleobiology
The George Washington University, Washington, D.C.
Supervisor: René Bobe
- 2011-2013 *M. Sc.* - Biological Anthropology
University of Montreal, Montreal, Canada
Supervisor: Michelle S. M. Drapeau
- 2008-2011 *B. Sc.* - Anthropology
University of Montreal, Montreal, Canada

ACADEMIC APPOINTMENTS

- 2018-2019 **Visiting Assistant Professor**
The George Washington University, Department of Anthropology
- 2018 **Intern**
Smithsonian Institution National Museum of Natural History
- Adjunct Professor** (summer course)
The George Washington University, Department of Anthropology
- 2017 **Adjunct Professor** (summer course)
The George Washington University, Department of Anthropology

PUBLICATIONS

Peer-reviewed articles

- Accepted Dumouchel L. and Bobe R. Paleoecological implications of dental mesowear and hypsodonty in fossil ungulates from Kanapoi, *Journal of Human Evolution*
- 2014 Drapeau M.S.M., Bobe R., Wynn J.G., Campisano C.J., Dumouchel L. and Geraads D, The Omo Mursi Formation: A window into the East African Pliocene, *Journal of Human Evolution*, 75: 64-79
- In prep **Dumouchel L.**, Bobe R., Wynn J.G., Barr W.A., Multi-proxy analysis of fossil Bovidae (Mammalia, Artiodactyla) from the Middle Pliocene Allia Bay, East Turkana, Kenya and implications for *Australopithecus anamensis* paleoecology. Target journal : *Palaeogeography, Palaeoclimatology, Palaeoecology*
- In prep Pobiner B., **Dumouchel L.**, Parkinson J., A blind test of a new quantitative method for coding carnivore-inflicted bone damage, with application to modern lion-damaged bones. Target journal : *Quaternary Science Reviews*

Book chapter

- In review Drapeau M.S.M., Bobe R., Geraads D., Wynn J.G. and **Dumouchel L.** Paleontology and Taphonomy of the Mursi Formation. In S Reynolds and R Bobe (Eds.), *Pliocene and Early Pleistocene African Fauna and Paleocology*. Cambridge University Press.

HONORS AND AWARDS

- 2017 **GW Shenkman Career Services Fund (\$250)**
Conference Travel Award
- 2016 **Sigma Xi Grants-in-Aid of Research (\$869)**
Project: The environments of the earliest *Australopithecus*
- Leakey Foundation (\$13,380)**
Project: The environments of the earliest obligate biped, *Australopithecus anamensis*
PI: Laurence Dumouchel
- The Explorers Club, Washington Group (\$3,281)**
Project: What the world looked like when we started walking upright: the environments of the earliest *Australopithecus*

Evolving Earth Foundation (\$2,935)

Project: What the world looked like when we started walking upright: the environments of the earliest *Australopithecus*

Lewis N. Cotlow Fund (\$1,750)

Project: What the world looked like when we started walking upright: the environments of the earliest *Australopithecus*

Cosmos Club Foundation Henry H. Work Science Award (\$3,700)

Project: *The environments of the earliest Australopithecus*

2015 **Paleoecology Symposium, Cleveland Museum of Natural History**
(\$200)

Conference Travel Award

2014 **Zelma Reidling Warren Bannister and William Warren Graduate Fellowship Award** (\$1,950)

For field travel expenses to Koobi Fora, Kenya

The Explorers Club Exploration Fund (\$1,500)

Project: Comparative Taphonomy of Pliocene sites of East Africa

2013-2018 **Graduate Assistantship and University Fellowship** (\$25,000 per annum)

Scholarship, George Washington University, Washington, D.C.

2012 **Joseph-Arthur-Gendron Scholarship** (\$2,000)

Scholarship, Caisse Desjardins Châteauguay, Canada

2011 **Anthropology Department, University of Montreal, Canada** (\$1,000)

Entrance Scholarship

PUBLISHED ABSTRACTS

2018 **Dumouchel L**, Bobe R, Wynn JG, Drapeau MSM and Geraads D. *Australopithecus anamensis* paleoecology in the Omo-Turkana Basin using fossil *Suidae* (*Mammalia*, *Artiodactyla*). *PaleoAnthropology*, A1-A34.

2017 **Dumouchel, L** and Bobe R. New insights into the paleoenvironments of *Australopithecus anamensis* in the Omo-Turkana Basin, East Africa. *East African Association of Paleoanthropology and Paleontology*.

Blumenthal SA, Cerling TE, Ditchfield PW, **Dumouchel L**, Lee-Thorp JA, Manthi F, Strum SC. Long-term and seasonal diet change in eastern

African primates. *East African Association of Paleoanthropology and Paleontology*.

Dumouchel L and Bobe R. Paleoeological reconstructions of c.4 Ma hominin sites from the Omo-Turkana Basin using fossil Bovidae. *American Journal of Physical Anthropology*, S64:168.

Drapeau MSM, Wynn JG, Geraads D, **Dumouchel L**, Campisano C and Bobe R. Reinvestigation of the ~4 Ma Yellow Sands of the Mursi Formation. *American Journal of Physical Anthropology*, S64:165.

Dumouchel L, Wynn JG, Bobe R, Drapeau MSM and Geraads D. *Australopithecus anamensis* paleoenvironments in the Omo-Turkana basin using stable isotope analysis of tooth enamel from mixed feeding taxa. *PaleoAnthropology*, A1-A34.

2016 **Dumouchel L**, *New insights into the paleoenvironments of Australopithecus anamensis*. *PaleoAnthropology*, A1-A34.

2015 **Dumouchel L** and Manthi FK, Ecological niche selectivity in *Australopithecus anamensis*. *American Journal of Physical Anthropology*, 156:111.

2014 **Dumouchel L** and Drapeau MSM, Taphonomic study of the fossil fauna from the Mursi Formation and Member A of the Shungura Formation, Ethiopia, *American Journal of Physical Anthropology*, S58: 110.

TEACHING

2018 Course Instructor, Teaching and Laboratory, George Washington University
Introduction to Biological Anthropology ANT1001

Guest Lecturer (1), George Washington University
Introduction to Biological Anthropology ANT1001
Course Instructor: Dr. W. Andrew Barr

Teaching and Laboratory Assistant, George Washington University
Faunal Analysis ANT3839/6839
Course Instructor: Dr. Briana Pobiner

Guest Lecturer (3), George Washington University
Faunal Analysis ANT3839/6839
Course Instructor: Dr. Briana Pobiner

- 2017 Course Instructor, Teaching and Laboratory, George Washington University
Introduction to Biological Anthropology ANT1001
- 2016 Teaching Assistant, George Washington University
African Roots: From Australopithecus to Zimbabwe ANT3801/3801W
Course Instructor: Dr. Alison S. Brooks
- 2015 Teaching and Laboratory Assistant, George Washington University
Faunal Analysis ANT3839/6839
Course Instructor: Dr. Briana Pobiner
- Guest Lecturer (1), George Washington University
Faunal Analysis ANT3839/6839
Course Instructor: Dr. Briana Pobiner
- 2014 Teaching and Laboratory Assistant, George Washington University
Introduction to Biological Anthropology ANT1001
Course Instructor: Dr. René Bobe
- Teaching and Laboratory Assistant (*Intern*), George Washington University
Koobi Fora Field School
Course Instructor: Dr. David R. Braun
- Guest Lecturer (1), George Washington University
Koobi Fora Field School
Course Instructor: Dr. David R. Braun
- 2013 Teaching and Laboratory Assistant, George Washington University
Introduction to Biological Anthropology ANT1001
Course Instructor: Dr. Alison S. Brooks
- Teaching and Laboratory Assistant, University of Montreal
Methods in Zooarchaeology ANT3470
Course Instructor: Claire St-Germain
- Teaching and Laboratory Assistant, University of Montreal
Methods in Human Osteology ANT2470
Course Instructor: Dr. Emeline Raguin
- 2012 Teaching and Laboratory Assistant, University of Montreal
Human Paleontology ANT2430
Course Instructor: Dr. Michelle S.M. Drapeau
- 2011 Teaching and Laboratory Assistant, University of Montreal

Methods in Human Osteology ANT2470

Course Instructor: Dr. Isabelle Ribot

Teaching Assistant, University of Montreal

Biological Variation ANT1513

Course Instructor: Dr. Michelle S.M. Drapeau

LABORATORY WORK

- 2017 Visiting Researcher, Allia Bay and Kanapoi faunal collections National Museums of Kenya, Nairobi, Kenya
- Visiting Researcher, Mursi Collection
 National Museum of Ethiopia, Addis Ababa, Ethiopia
- Academic Visitor, Research Laboratory for Archaeology (Stable isotopes)
 Oxford University, United Kingdom
 Collaborators: Drs. Julia Lee-Thorp, Peter Ditchfield and Scott Blumenthal
- 2016 Visiting Researcher, University of South Florida Stable Isotope Lab
 University of South Florida, Tampa, FL
 Collaborator: Dr. Jonathan Wynn
- Visiting Researcher, Allia Bay and Kanapoi faunal collections
 National Museums of Kenya, Nairobi, Kenya
- Visiting Researcher, Mursi collection
 National Museum of Ethiopia, Addis Ababa, Ethiopia
- Visiting Researcher, Tragelaphine ecomorphology by photogrammetry
 Museum Support Center, Smithsonian National Museum of Natural
 History
 Collaborator: Dr. Andrew Barr
- 2015 Visiting Researcher, Pliocene bovids from Allia Bay
 National Museums of Kenya, Nairobi, Kenya
- 2014 Taphonomic analysis of carnivore damage on modern zebra bones
 Smithsonian Institution National Museum of Natural History
 Dr. Briana Pobiner
- 2012 Visiting Researcher: Mursi collection
 National Museum of Ethiopia, Addis Ababa, Ethiopia
- Sorting of bone collection from Droulers site

Prehistoric Archaeology Lab, University of Montreal
Supervisor: Dr. Christian Gates St-Pierre

Preparation of faunal carcasses for reference collection
Veterinary School, University of Montreal
Supervisor: Dr. Ariane Burke

FIELD EXPERIENCE

- 2014 Kanapoi, West Turkana, Kenya
West Turkana Paleoproject Research Student
- Koobi Fora, East Turkana, Kenya
Koobi Fora Field School Staff Assistant and Researcher
- 2011 Droulers-Tsiionhiakwatha Site, St-Anicet, Canada
Archaeology Field School Student
- 2010 Greek-Canadian Archaeological Excavation, Northern Greece
Argilos Archaeology Field School Student

CONFERENCES AND WORKSHOPS

- 2018 Conference: Paleoanthropology Society, Austin, TX
Australopithecus anamensis paleoecology in the Omo-Turkana Basin
using fossil *Suidae* (*Mammalia*, *Artiodactyla*) (Talk)
- 2017 Conference: AnthroTalks (Department of Anthropology, GWU)
Washington, DC
Five global challenges paleoecology can help address (Talk)
- Conference: European Society for the Study of Human Evolution
Leiden, Netherlands
*The implications of fossil Suidae (Mammalia, Artiodactyla) for the
reconstructions of the habitat of Australopithecus anamensis in the Omo-
Turkana Basin* (Pecha Kucha)
- Conference: East African Association of Paleontology and
Paleoanthropology
Addis Ababa, Ethiopia
*New insights into the paleoenvironments of Australopithecus anamensis in
the Omo-Turkana Basin, eastern Africa* (Talk)

Conference: American Association of Physical Anthropology
New Orleans, Louisiana
Paleoecological reconstructions of c.4 Ma hominin sites from the Omo-Turkana Basin using fossil Bovidae (Talk)

Conference: Paleoanthropology Society
Vancouver, Canada
Australopithecus anamensis paleoenvironments in the Omo-Turkana basin using stable isotope analysis of tooth enamel from mixed feeding taxa (Talk)

2016 Conference: Society of Vertebrate Paleontology
Salt Lake City, Utah
Paleoecological analyses of fossil Bovidae from hominin sites from the Pliocene Omo-Turkana Basin, eastern Africa (Podium)

Conference: Paleoanthropology Society
Atlanta, Georgia
New insights into the paleoenvironments of Australopithecus anamensis (Poster)
Paleoecology of fossil Bovidae from Allia Bay, Kenya (Lightning Talk)

2015 Conference: Paleoecology Symposium
Cleveland, Ohio
Ecological niche selectivity in Australopithecus anamensis (Poster)

Conference: American Association of Physical Anthropology
St Louis, Missouri
Ecological niche selectivity in Australopithecus anamensis (Poster)

2014 Conference: American Association of Physical Anthropology
Calgary, Canada
Taphonomic study of the fossil fauna from the Mursi Formation and Member A of the Shungura Formation, Ethiopia (Poster)

SCIENCE OUTREACH, PROFESSIONAL SERVICE AND MENTORSHIP

2018 Public event, 2018 USA Science and Engineering Festival and Expo:
Science Outreach
Role: Volunteer and “Scavenger Hunt” Pamphlet designer and creator
Location: National Science Foundation exhibit pavilion, Walter E. Washington Convention Center, Washington, DC

Public event, *DC STEM Fair*: Science Outreach
Role: Volunteer and “Scavenger Hunt” Pamphlet designer and creator

Location: Ron Brown High School, Washington, DC

Public event, Susan Pfeiffer (University of Toronto), *The Skeletons of Archeology: How they Shape our Views of the Past*

Role: Organizer

Location: Center for the Advanced Study of Human Paleobiology, George Washington University, Washington, DC

2017 Public event, 'HOT' (Human Evolution Today) Topic: Science Outreach
Role: Invited Speaker
Location: Hall of Human Origins, Smithsonian National Museum of Natural History, Washington, DC

Service, Undergraduate thesis (Elliot Greiner)

Role: Reader

Location: George Washington University, Washington, DC

Public event, *Science Uncovered*

Role: Organizing committee (~150 hours)

Location: Manchester Museum, Manchester, United Kingdom

Public event, *Science Uncovered: Science Outreach*

Roles:

Speaker: *What the world looked like when we started walking upright* (lightning talk)

Station Organizer and Volunteer: *Ancient DNA from Prehistoric Europeans* (with Dr. S. Charlton)

Location: Manchester Museum, Manchester, United Kingdom

Public event, Diversity summit: embracing diversity and inclusion at GW, *Diversity in Science at GW's Center for the Advanced Study of Human*

Role: Volunteer

Location: George Washington University, Washington, DC

2016-2018 Science Outreach, Science education program (for girls from single-parent households), *BePolished: Science Outreach*
Role: Volunteer and Station organizer "*Paleoecology*"
Location: George Washington University, Washington, DC

2016 Public event, Guest Speaker Jessica Blois (University of California, Merced), *Ecological Processes in a Changing Environment: Perspectives from the Late Quaternary*
Role: Organizer
Location: Center for the Advanced Study of Human Paleobiology, George Washington University, Washington, DC

- 2015-2018 Diversity in Science Committee
 Role: Organizing Committee
 Location: George Washington University, Washington, DC
- 2015 Public event, *GW Women in Science Symposium*
 Role: Volunteer
 Location: George Washington University, Washington, DC
- Public event, Guest Speaker Larisa DeSantis (Vanderbilt University)
Revealing paleoecology, paleobiology, and mammalian responses to climate change during the Pleistocene
 Role: Organizer
 Location: Center for the Advanced Study of Human Paleobiology, George Washington University, Washington, DC
- 2014-2016 Science Outreach (3), *The Scientist is In*
 Role: Speaker
 Location: Hall of Human Origins, Smithsonian National Museum of Natural History, Washington, DC
- 2014 Science Outreach, *Teaching Evolution to Children Program*
 Role: Station organizer and Volunteer (3)
 Location: St. Columba's Nursery School, Washington D.C.
- 2012-2013 Science Outreach, *Human Evolution: Our Captivating Story*
 Role: Invited lectures (4) and Content creator
 Location: Terre-des-Jeunes Elementary School, St-Eustache, Canada
- 2012 Science Outreach, *The Secrets of a Skeleton*
 Role: Station organizer
 Location: Château Ramezay, Historic Site and Museum of Montreal, Canada
- Public Event, Anthropoboutique: 50th Anniversary Celebration of the Department of Anthropology
 Role: Organizing Committee
 Location : University of Montreal, Canada
- 2012 Conference, *Canadian Archaeological Association*
 Role: Volunteer
 Location: University of Montreal, Canada
- 2011 Conference, *Canadian Association of Physical Anthropology*
 Role: Volunteer
 Location: University of Montreal, Canada
- 2009 Science Outreach, *Encounters in New France*

Role: Volunteer (2)
Location: Pointe-à-Callière: *Montreal Museum of Archaeology and History*,
Montreal, Canada

MEMBERSHIPS OF PROFESSIONAL ORGANIZATIONS

American Association of Physical Anthropologists (AAPA)
Paleoanthropology Society
Society of Vertebrate Paleontology (SVP)
International Council for Zooarchaeology (ICAZ)
Paleontological Society

MEDIA

- 2017 Featured of the blog *Faces of Fieldwork*
(<http://facesoffieldwork.com/unexpected-goat-stampede/>)
- 2016 *Grantee Spotlight*, Leakey Foundation
(<https://leakeyfoundation.org/grantee-spotlight-laurence-dumouchel/>)
- From the Field*, Leakey Foundation
(<https://leakeyfoundation.org/from-the-field-laurence-dumouchel/>)
- 2015-present Website: www.paleolau.com
Twitter: @paleolau
- 2013 – present GWU Student page:
<https://cashp.columbian.gwu.edu/laurencedumouchel>
- Researchgate profile:
https://www.researchgate.net/profile/Laurence_Dumouchel2

ADDITIONAL TRAINING

Languages

English, French (native), Swahili (basic)

Analytical and Computer Skills

R, ArcMap (GIS), GIMP (Image processing)