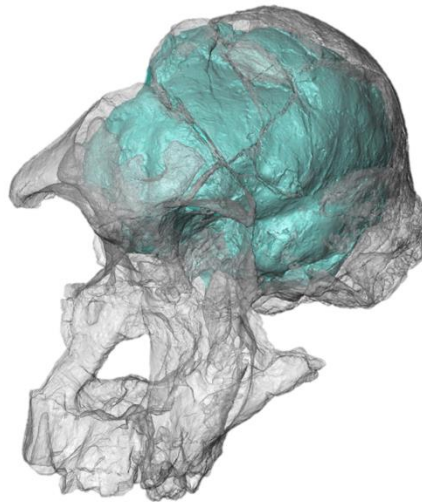


CURRICULUM VITAE

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 Date and place of birth: 19/12/1989, Châtellerauld (86), France
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Research topics: Plio-Pleistocene hominin and non-hominin primate paleobiology; structural and functional morphology; brain evolution; morphoarchitectural variation in brain endocasts; structural variation of the hominin cranial vault; bony labyrinth conformation; external morphology and internal organization of the presacral vertebrae.

Technical expertise: X-ray microtomography (X- μ CT, SRX- μ CT); neutron microtomography (n- μ CT); photogrammetry; laser scanner; digital image processing; 3D geometric morphometrics; deformation-based models; biostatistics.

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CURRENT POSITION

- 2023-present CNRS Junior Professor Chair at the Laboratoire Paléontologie, Evolution, Paléoécosystèmes, Paléoprimatologie (UMR 7262) of the University of Poitiers (France).
- 2023-present Honorary researcher at the Department of Archaeology, University of Cambridge, Cambridge (United-Kingdom).
- 2018-present Honorary research fellow at the School of Geography, Archaeology and Environmental Studies (GAES), University of the Witwatersrand, Johannesburg (South Africa).

POSTDOCTORAL ACTIVITIES

- 2020-2023 Lecturer in Human Origins at the Department of Archaeology, University of Cambridge, Cambridge (United-Kingdom).
- 2020-2023 Honorary researcher à l'Institut Català de Paleontologia Miquel Crusafont, Barcelona (Spain).
- 2017-2021 Extraordinary lecturer at the Department of Anatomy of the University of Pretoria (South Africa).
- 2017-2020 Postdoctoral researcher at the School of Geography, Archaeology and Environmental Studies (GAES), University of the Witwatersrand, Johannesburg (South Africa), funded by the Claude Leon Foundation, the Centre of Excellence in Palaeosciences and the University Research Council of the University of the Witwatersrand (coord. by Pr. D. Stratford).
- 2015-2016 Postdoctoral researcher at the Department of Anatomy of the University of Pretoria (South Africa) funded by the Erasmus Mundus project A European and South African Partnership on Heritage and Past (AESOP+) (coord. by Pr. A.C. Oettlé).

EDUCATION AND TRAINING

- 2023 *Habilitation à Diriger des Recherches* obtained on December 7th at the University of Poitiers (France) with a dissertation entitled: *Hominin brain evolution: morphology, organisation and vascularisation* (panel: Dr. Jean-Renaud Boissarie, Dr. Caroline Fonta, Pr. Katerina Harvati, Pr. Tracy Kivell, Pr. Marta Mirazón-Lahr, Dr. Sandrine Prat, Pr. Dominic Stratford).
- 2015 PhD degree *cum laude* in Paleoanthropology obtained on November 12th at the University of Toulouse Paul Sabatier (France) with a dissertation entitled: *Characterization of inner craniodental structures in cercopithecoids and diachronic study of their morphological variation in the Plio-Pleistocene South African sequence* (panel: Pr. J. Braga, Dr. L. Bruxelles, Dr. J. Heaton, Dr. O. Kullmer, Pr. R. Macchiarelli, Pr. M. Nakatsukasa, Pr. J.F. Thackeray).
- 2012-2015 PhD research program at the Laboratoire d'Anthropologie Moléculaire et Imagerie de Synthèse, UMR 5288 CNRS of the University of Toulouse Paul Sabatier (France) (sup. by Pr. J. Braga, co-sup. by Pr. R. Macchiarelli).
- 2010-2012 Erasmus Mundus Master degree with distinctions in Quaternary and Prehistory-Paleoanthropology obtained in 2012 at the Muséum national d'Histoire naturelle of Paris (France) (sup. by Pr. R. Macchiarelli, co-sup. by Dr. V. Volpato). Master thesis title: *The influence of locomotion on trabecular bone organization. The example of the catarrhine tibial plateau*.
Erasmus Mundus mobility (3 months) at the University Rovira i Virgili, Tarragona (Spain); courses in Prehistory and Paleoanthropology; scientific practical training on: *Physical measurements and imaging by surface scanner of a modern tibiae sample* (sup. by Dr. C. Lorenzo).
Master 1 research training at the Senckenberg Institute, Frankfurt-am-Main (Germany), on: *Characterization of the trabecular bone beneath the tibial plateau of the Neandertal specimen La Ferrassie 2 based on a microtomographic record (synchrotron)* (sup. by Pr. R. Macchiarelli, co-sup. by Dr. V. Volpato).
- 2007-2010 Bachelor degree with honours in Earth Sciences and Environment obtained at the University of Poitiers (France).
Research training (2 months) at the Muséum national d'Histoire naturelle of Paris (France) on: *Analytical tools for the virtual characterization of human and non-human primate remains* (segmentation of modern and Neanderthal teeth, topographic distribution of the cortical bone along the femoral neck of modern and fossil primates) (sup. by Pr. R. Macchiarelli, co-sup. by Dr. L. Puymerail and Dr. C. Zanolli).

2007 **High School diploma** with distinction in Sciences, option Earth and Life Sciences, obtained at the High School Marcelin Berthelot, Châtelleraut (France).

SCIENTIFIC ACTIVITIES

- 54 published articles in international peer-reviewed journals (including 25 as first author and 6 as last author)
- 6 book chapters (included 2 as first author)
- 96 contributions to national and international conferences (including 39 as first author and 30 as last author)

Articles in peer-reviewed journals

- Accepted **Beaudet A.**, Redae B.E., Bedane T.G., Surault J. & Boissérie J.-R. - New hominin cranial remains from the Shungura Formation, Lower Omo Valley (Ethiopia). *Palevol*.
- 2026 **Beaudet A.**, Dupont E., Guy F., Dumoncel J., Atwood R., Fernandez V., Vo N.T., Clarke R.J., Heaton J.L., Pickering T.R., Carlson K.J., Subsol G. & Stratford D. - Virtual reconstruction and comparative study of the face of StW 573 ("Little Foot"). *Comptes Rendus Palevol* 25: 43-56.
 Carlson K.J., Ruff C.B., Burgess M.L., Sylvester A.D., Jashashvili T., Heaton J. L., Pickering T.R., Sarringhaus L., Ryan T.M., **Beaudet A.**, Crompton R.H., Heile A.J., Stratford D., Kuman K., Lordkipanidze D. & Clarke R.J. - Proportional limb strengths signal an adaptive shift in arboreality in early human evolution. *Science Advances* 12: eaeh1752.
 *de Jager E., Gilissen E., Risser L., Amiez C., Fonta C., Mescam M., **Beaudet A.** - Atlas of cortical sulcal imprints on Pan endocast. *Journal of Anatomy* <https://doi.org/10.1111/joa.70185>
 Crompton R., Elton S., Heaton J., Pickering T., Carlson K., Jashashvili T., **Beaudet A.**, Bruxelles L., Kuman K., Thorpe S.K., Hirasaki E., Scott C., Sellers W., Pataky T., Clarke R. & McClymont J. - Bipedalism or bipedalisms: The os coxae of StW 573. *Journal of Anatomy* 248:163-183.
- 2025 **Beaudet A.**, Kikuchi Y., Manthi F.K., Ndiema E., Stratford D. & Zipfel B. - Positional behavior in African Miocene hominoids: new insights from the first cervical vertebrae of *Otavipithecus* and *Nacholapithecus*. *Scientific Reports* 15: 24569.
Beaudet A. & Wood B.A. - Ralph Holloway (1935–2025): Pioneering paleoneurologist. *Proceedings of the National Academy of Sciences* 122: e2510387122.
Beaudet A., *de Jager E., Tawane M. & Billings B. - Looking for the origins of the human brain: The role of South Africa in the history of palaeoneurology. *South African Journal of Science* 121.
Beaudet A. - Investigating the primate fossil record using diffeomorphic deformation: what have we learnt? *Bulletins et Mémoires de la Société d'Anthropologie de Paris* 37.
 Smith C.M., Hammond A.S., Urciuoli A., Braga J., **Beaudet A.**, Cazenave M., Laitman J.T. & Almécija S. - Divergent otolithic systems in the inner ear of *Paranthropus robustus* and *Australopithecus africanus*. *Journal of Human Evolution* 199:103624.
- 2024 Labra N., Mounier A., Leprince Y., Rivière D., Didier M., Bardinet E., Santin M.D., Mangin J.-F., Filippo A., Albessard-Ball L., **Beaudet A.**, Broadfield D., Bruner E., Carlson K.J., Cofran Z., Falk D., Gilissen E., Gómez-Robles A., Neubauer S., Pearson A., Röding C., Zhang Y. & Balzeau A. - What do brain endocasts tell us? A comparative analysis of the accuracy of sulcal identification by experts and perspectives in palaeoanthropology. *Journal of Anatomy* 244:274-296.
 *Bouchet F., Zanolli C., Urciuoli A., Almécija S., Fortuny J., Robles J.M., **Beaudet A.**, Moyà-Solà S. & Alba D.M. - The Miocene primate *Pliobates* is a pliopithecoid. *Nature Communications* 15:2822.
- 2023 **Beaudet A.** - The *Australopithecus* assemblage from Sterkfontein Member 4 (South Africa) and the concept of variation in palaeontology. *Evolutionary Anthropology* 32:154-168.
Beaudet A. & *de Jager E. - Broca's area, variation and taxic diversity in early *Homo* from Koobi Fora (Kenya). *eLife* 12: RP89054.

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de Sousa A., **Beaudet A.**, Calvey T., Bardo A., Benoit J., Charvet C.J., Dehay C., Gómez-Robles A., Gunz P., Heuer K., van den Heuvel M.P., Hurst S., Lauters P., Reed D., Salagnon M., Sherwood C.C., Ströckens F., Tawane M., Todorov O.S., Toro R., Wei Y. - From fossils to mind. *Communications Biology* 6:636.

Cofran Z., Hurst S **Beaudet A.** & Zipfel B. - An overlooked Australopithecus brain endocast from Makapansgat, South Africa. *Journal of Human Evolution* 178:103346.

Bruner E. & **Beaudet A.** - The brain of *Homo habilis*: Three decades of paleoneurology. *Journal of Human Evolution* 174:103281.

Beaudet A., d'Errico F., Backwell L., Wadley L., Zipfel B., de la Peña P. & Reyes-Centeno H. - A reappraisal of the Border Cave 1 cranium (KwaZulu-Natal, South Africa). *Quaternary Science Reviews* 282:107452.

Backwell L., Wadley L., d'Errico F., Banks W.E., de la Peña P., Stratford D., Sievers C., Laue G., Vilane B., Clark J., Tribolo C., **Beaudet A.**, Jashashvili T., Carlson K.J., Lennox S., Esteban I. & Mauraan G. - Border Cave: A 227,000-year-old archive from the southern African interior. *Quaternary Science Reviews* 291:107597.

Beaudet A., Dumoncel J., Heaton J.L., Pickering T.R., Clarke R.J., Carlson K.J., Bam L., Van Hoorebeke L. & Stratford D. - Shape analysis of the StW 578 calotte from Jacovec Cavern, Gauteng (South Africa). *South African Journal of Science* 118:1-6.

Beaudet A. - Variation morphologique et concept d'espèce en paléanthropologie : l'exemple d'*Australopithecus* en Afrique australe. *Bulletins et mémoires de la Société d'Anthropologie de Paris* 34:31-37.

*de Jager E., Risser L., Mescam M., Fonta C. & **Beaudet A.** - Sulci 3D mapping from human cranial endocasts: a powerful tool to study hominin brain evolution. *Human Brain Mapping* 43:4433-4443.

*de Jager E., Prigge L., Amod N., Oetllé A. & **Beaudet A.** - Exploring the relationship between soft and hard tissues: the example of vertebral arteries and transverse foramina. *Journal of Anatomy* 241:447-452.

Balzeau A., Albessard-Ball L., Kubicka A.M., Filippo A., **Beaudet A.**, Santos E., Bienvenu T., Arsuaga J.-L., Bartsiokas A., Berger L., Bermúdez de Castro J.M., Brunet M., Carlson K.J., Daura J., Gorgoulis V.G., Grine F.E., Harvati K., Hawks J., Herries A., Hublin J.-J., Hui J., Ives R., Joordens J.A., Kaifu Y., Kouloukousa M., Léger B., Lordkipanidze D., Margvelashvili A., Martin J., Martínón-Torres M., May H., Mounier A., du Plessis A., Rae T., Röding C., Sanz M., Semal P., Stratford D., Stringer C., Tawane M., Temming H., Tsoukala E., Zilhão J., Zipfel B. & Buck L.T. - Frontal sinuses and human evolution. *Science Advances* 8:eabp9767.

Zanolli C., Davies T.W., Joannes-Boyau R., **Beaudet A.**, Bruxelles L., de Beer F., Hoffman J., Hublin J.-J., Jakata K., Kgasi L., Kullmer O., Macchiarelli R., Pan L., Schrenk F., Santos F., Stratford D., Tawane M., Thackeray J.F., Xing S., Zipfel B. & Skinner M.M. - Dental data challenge the ubiquitous presence of Homo in the Cradle of Humankind. *Proceedings of the National Academy of Sciences* 119: e2111212119.

Crompton R.H., McClymont J., Thorpe S.K., Elton S., Goh E., Kuman K., Clarke R., Bruxelles L., Pickering T.R., Sellers W.I., **Beaudet A.**, Pataky T., Carlson K., Jashashvili T. & Heaton J. - StW 573 *Australopithecus prometheus*: its significance for an australopith bauplan. *Folia Primatologica* 92:243-275.

2021

Beaudet A. - The enigmatic origins of the human brain. *Science* 372:124-125.

Beaudet A., Atwood R.C., Kockelmann W., Fernandez V., Connolley T., Vo N.T., Clarke R.J. & Stratford D. - Preliminary paleohistological observations of the StW 573 ('Little Foot') skull. *eLife* 10:e64804.

Beaudet A., Holloway R. & Benazzi S. - A comparative study of the endocasts of OH 5 and SK 1585: Implications for the paleoneurology of eastern and southern African *Paranthropus*. *Journal of Human Evolution* 156:103010.

*Bouchet F., Urciuoli A., **Beaudet A.**, Pina M., Moyà-Solà S. & Alba D.M. - Comparative anatomy of the carotid canal in the Miocene small-bodied catarrhine *Pliobates cataloniae*. *Journal of Human Evolution* 161:103073.

Dumoncel J., Subsol G., Durrleman S., Bertrand A., de Jager E., Oetllé A., Lockhat Z., Suleman F.E. & **Beaudet A.** - Are endocasts reliable proxies for brains? A 3D quantitative comparison of the extant human brain and endocast. *Journal of Anatomy* 238: 480-488.

- Carlson K.J., Green D.J., Jashashvili T., Pickering T.R., Heaton J.L., **Beaudet A.**, Stratford D., Crompton R., Kuman K., McClymont J., Bruxelles L. & Clarke R.J. - The pectoral girdle of StW 573 ("Little Foot") and its implications for hominin evolution. *Journal of Human Evolution* 158:102983.
- Urciuoli A., Zanolli C., **Beaudet A.**, Pina M., Almécija S., Moyà-Solà S. & Alba D. - A comparative analysis of the vestibular apparatus in *Epiplioipithecus vindobonensis*: Phylogenetic implications. *Journal of Human Evolution* 151:102930.
- Urciuoli A., Zanolli C., Almécija S., **Beaudet A.**, Dumoncel J., Morimoto N., Nakatsukasa, M., Almécija S., Moyà-Solà S., Begun D. & Alba D. - Reassessment of the phylogenetic relationships of the late Miocene apes *Hispanopithecus* and *Rudapithecus* based on vestibular morphology. *Proceedings of the National Academy of Sciences* 118:e2015215118.
- 2020 **Beaudet A.**, Clarke R.J., Heaton J.L., Pickering T.R., Carlson K.J., Crompton R., Jashashvili T., Bruxelles L., Jakata K., Bam L., Van Hoorebeke L., Kuman K. & Stratford D. - The atlas of StW 573 and the late emergence of human-like head mobility and brain metabolism. *Scientific Reports* 10 :4285.
- Beaudet A.** & Fonta C. - Aux origines de l'humanité : retracer les grandes étapes de notre évolution biologique et culturelle à partir de l'étude du cerveau de nos ancêtres. *Intellectica* 73:93-106.
- Urciuoli A., Zanolli C., **Beaudet A.**, Dumoncel J., Santos F., Moyà-Solà S. & Alba D. - The evolution of the vestibular apparatus in apes and humans. *eLife* 9:e51261.
- 2019 **Beaudet A.** - The inner ear of the *Paranthropus* specimen DNH 22 from Drimolen, South Africa. *American Journal of Physical Anthropology* 170:439-446.
- Beaudet A.**, Clarke R.J., Bruxelles L., Carlson K.J., Crompton R., de Beer F., Dhaene J., Heaton J.L., Jakata K., Jashashvili T., Kuman K., McClymont J., Pickering T.R. & Stratford D. - The bony labyrinth of StW 573 ("Little Foot"): implications for hominin evolution and paleobiology. *Journal of Human Evolution* 127:67-80.
- Beaudet A.**, Clarke R.J., de Jager E., Bruxelles L., Carlson K.J., Crompton R., de Beer F., Dhaene J., Heaton J.L., Jakata K., Jashashvili T., Kuman K., McClymont J., Pickering T.R. & Stratford D. - The endocast of StW 573 ("Little Foot") and hominin brain evolution. *Journal of Human Evolution* 126:112-123.
- Heaton J.L., Pickering T.R., Carlson K., Crompton R., Jashashvili T., **Beaudet A.**, Bruxelles L., Kuman K., Heile A. Stratford D. & Clarke R.J. - The long limb bones of the StW 573 *Australopithecus* skeleton from Sterkfontein Member 2: descriptions and proportions. *Journal of Human Evolution* 133:167-197.
- Bruxelles L., Stratford D., Maire, R., Pickering T.R., Heaton J., **Beaudet A.**, Kuman K., Crompton R., Carlson K., Jashashvili T., McClymont J., Leader G.M. & Clarke R.J. - A multiscale stratigraphic investigation of the context of StW 573 'Little Foot' and Member 2, Sterkfontein Caves, South Africa. *Journal of Human Evolution* 133:78-98.
- *de Jager E., Van Schoor A.N., Hoffman J.W., Oettlé A.C., Fonta C., Mescam M., Risser L. & **Beaudet A.** - Sulcal pattern variation in extant human endocasts. *Journal of Anatomy* 235:803-810.
- Pereira-Pedro A.S., **Beaudet A.** & Bruner E. - Parietal lobe variation in cercopithecoid endocasts. *American Journal of Primatology* 81:e23025.
- *Bouchet F., Ribéron A., Heaton J.L., de Beer F., Jakata K., Tawane M., Tenailleau C., Zipfel B. & **Beaudet A.** - The inner craniodental anatomy of the *Papio* specimen UW 88-886 from the Early Pleistocene site of Malapa, Gauteng, South Africa. *Palaeontologia Africana* 53:192-206.
- *Mataboge B., **Beaudet A.**, Heaton J., Pickering T. & Stratford D. - Endostructural assessment of a hominin maxillary molar (StW 669) from Milner Hall, Sterkfontein, South Africa. *South African Journal of Science* 115:1-4.
- 2018 **Beaudet A.**, Heaton J.L., L'Abbé E.N., Pickering T.R. & Stratford D. - Hominin cranial fragments from Milner Hall, Sterkfontein, South Africa. *South African Journal of Science* 114:1-6.
- Beaudet A.**, Carlson K.J., Clarke R.J., de Beer F., Dhaene J., Heaton J., Pickering T.R. & Stratford D. - Cranial vault thickness variation and inner structural organization in the StW 578 hominin cranium from Jacovec Cavern, South Africa. *Journal of Human Evolution* 121:204-220.

- Beaudet A.**, Dumoncel J., de Beer F., Durrleman S., Gilissen E., Oettlé A., Subsol G., Thackeray F. & Braga J. - The endocranial shape of *Australopithecus africanus*: surface analysis of the endocasts of Sts 5 and Sts 60. *Journal of Anatomy* 232:296-303.
- Schillinger B., **Beaudet A.**, Fedrigo A., Grazzi F., Kullmer O., Laaß M., Makowska M., Werneburg I. & Zanolli C. - Neutron imaging in cultural heritage Research at the FRM II reactor of the Heinz Maier-Leibnitz Center. *Journal of Imaging* 4:22.
- 2017 **Beaudet A.** - The emergence of language in the hominin lineage: perspectives from fossil endocasts. *Frontiers in Human Neuroscience* 11:427.
- Beaudet A.** & Bruner E. - A frontal lobe surface analysis in three archaic African human fossils: OH 9, Buia, and Bodo. *Comptes Rendus Palevol* 16:499-507.
- 2016 **Beaudet A.**, Dumoncel J., de Beer F., Duployer B., Durrleman S., Gilissen E., Hoffman J., Tenaillon C., Thackeray J.F. & Braga J. - Morphoarchitectural variation in South African fossil cercopithecoid endocasts. *Journal of Human Evolution* 101:65-78.
- Beaudet A.**, Dumoncel J., Thackeray J.F., Bruxelles L., Duployer B., Tenaillon C., Bam L., Hoffman J., de Beer F. & Braga J. - Upper third molar internal structural organization and semicircular canal morphology in Plio-Pleistocene South African cercopithecoids. *Journal of Human Evolution* 95:104-120.
- Beaudet A.**, Braga J., de Beer F., Schillinger B., Steininger C., Vodopivec V. & Zanolli C. - Neutron microtomography-based virtual extraction and analysis of a cercopithecoid partial cranium (STS 1039) embedded in a breccia fragment from Sterkfontein Member 4 (South Africa). *American Journal of Physical Anthropology* 159: 737-745.
- 2015 **Beaudet A.**, Zanolli C., Engda Redae B., Endalamaw M., Braga, J. & Macchiarelli R. - A new cercopithecoid dentognathic specimen attributed to *Theropithecus* from the late Early Pleistocene (c. 1 Ma) deposits of Simbiro, at Melka Kunture, Ethiopian highlands. *Comptes Rendus Palevol* 14:657-669.

*supervised students or hosted postdocs

Edited books

- 2024 **Beaudet A.** & Fonta A. - *BrAIn Evolution, palaeosciences, neuroscience and artificial intelligence. Lesedi : Carnets de terrain*. IFAS-Recherche.
- 2023 Calvey T., de Sousa A. & **Beaudet A.** - *From Fossils to Mind*. Progress in Brain Research. Elsevier, 250 p.

Articles in books

- In press *de Jager E., Carlson C. & **Beaudet A.** - The Taung Infant Brain Endocast Revisited: New Insights into the *Australopithecus* Brain. In: Wood B., Grine F.E. & Smith H. (Eds.) One hundred years of *Australopithecus africanus*.
- 2026 Holloway R., **Beaudet A.** & Colby A. - Brain evolution in *Paranthropus*. In: Constantino R.J., Reed K.E. & Wood B.A. (Eds.) The Forgotten Lineage(s): Paleobiology of *Paranthropus*. Vertebrate Paleobiology and Paleoanthropology. Springer, pp. 67-74.
- 2023 *Hill H., Mirazón Lahr M. & **Beaudet A.** - Brain evolution and language: a comparative 3D analysis of Wernicke's area in extant and fossil hominids. In: Calvey R., de Sousa A. & Beaudet A. (Eds.) *From Fossils to Mind*. Progress in Brain Research. Elsevier, pp. 117-142.
- *Pestana C., de Sousa A., Todorov O., **Beaudet A.** & Benoit J. - Evolutionary history of hominin brain size and phylogenetic comparative methods. In: Calvey R., de Sousa A. & Beaudet A. (Eds.) *From Fossils to Mind*. Progress in Brain Research. Elsevier, pp. 217-232.
- 2019 **Beaudet A.**, Du A. & Wood B.A. - Evolution of the modern human brain. In: Hofman M.A. (Ed.) *Evolution of the human brain: from matter to mind*. Progress in Brain Research. Elsevier, pp. 219-250.
- 2018 **Beaudet A.** & Gilissen E. - Fossil primate endocasts: perspectives from advanced imaging techniques. In: Bruner E., Ogihara N. & Tanabe H. (Eds.), *Digital Endocasts : from skulls to brains*. Springer, pp. 47-58.
- 2017 Fourvel J.B., Brink J., **Beaudet A.** & Pavia M. - Some preliminary interpretations of the oldest faunal assemblage from Kromdraai B. In: Braga J. &

Thackeray F.J. (Eds.), *Kromdraai: a Birthplace of Paranthropus in the Cradle of Humankind*, chapter 5. Sun MeDIA MeTRO, pp. 71-104.

*supervised students or hosted postdocs

Articles in peer-reviewed proceedings

- 2017 Zanolli C., Schillinger B., **Beaudet A.**, Kullmer O., Macchiarelli R., Mancini L., Schrenk F., Tuniz C. & Vodopivec V. - Exploring the hominin and non-hominin primate dental fossil record with neutron microtomography. *Physics Procedia* 88: 109-115.
- 2016 Dumoncel J., Subsol G., Durrleman S., Jessel J.-P., **Beaudet A.** & Braga J. - How to build an average model when samples are variably incomplete? Application to fossil data. *IEEE Conference on Computer Vision and Pattern Recognition Workshops*. IEEE, Las Vegas, pp. 541-548.

Articles related to online data base

- 2019 **Beaudet A.**, Fleury G., Gilissen E., Dumoncel J., Thackeray J.F., Bruxelles L., Duployer B., Tenailleau C., Bam L., Hoffman J., De Beer F. & Braga J. - 3D models related to the publication: Upper third molar internal structural organization and semicircular canal morphology in Plio-Pleistocene South African cercopithecoids. *MorphoMuseum* (<https://morphomuseum.com/articles/view/86>).

Fieldwork reports

- 2021 Bruxelles L., **Beaudet A.** & Fourvel J.-B. - Rapport annuel de la mission Human Origins in Namibia, année 2021. Commission des Fouilles, Ministères de l'Europe et des Affaires Étrangères, 39 p.
- 2019 Bruxelles L., **Beaudet A.**, Dandurand G., Duranthon F., Fourvel J.-B., Jarry M. & Pickford M. - Rapport annuel de la mission Human Origins in Namibia, année 2019. Commission des Fouilles, Ministères de l'Europe et des Affaires Étrangères, 62 p.

Abstracts published in national and international journals and proceedings

- 2025 **Beaudet A.**, Stratford D., Horn M., Hill H., de Jager E. & Theye C. - A century after the Taung child: new insights into the evolutionary history of *Australopithecus*. *PaleoAnthropology* 2:431 ([podium presentation](#)).
- *de Jager E., Fonta C., Mescam M., Risser L., Amiez C., Carlson K., Garvin H., Kgasi L., Stratford D., **Beaudet A.** - Reconstructing the evolution of cerebral reorganisation in the hominin fossil record. *PaleoAnthropology* 2:469 ([podium presentation](#)).
- *Gilet E., Richard N., Fernandez-Maloigne C., Shock J., Mescam M., Surault J., Chinamatira G., Stratford D. & **Beaudet A.** - Identification of fossil hominin cranial fragments: a computer vision-based approach. *PaleoAnthropology* 2025:2:499 (poster presentation).
- *Hill H. R., Momberg D., Tasu J.-P., Guy F., Surault J., Zipfel B., Stratford D. & **Beaudet A.** - From bones to blood to brains: a comparative analysis of the carotid canal in South African fossil hominins. *PaleoAnthropology* 2025:2:515 (Pecha Kucha presentation).
- *Nowicki Z., Guy F., **Beaudet A.**, Blasi-Toccaceli A., Pallas L., Surault J. & Daver G. - Revisiting femoral anteversion in Hominoids: a new approach using 3D data. *PaleoAnthropology* 2025:2:576 (Pecha Kucha presentation).
- Surault J., Delomosne L., Grohé C., Guy F., Hill H. & **Beaudet A.** - Exploring applications of intraoral 3D scanning technology in paleontology. *PaleoAnthropology* 2025:2:628 (poster presentation).
- *Theye C. E. G., Heaton J. L., Stratford D., Clarke R. J., Crompton R., Carlson K. J., Jashashvili T., Pickering T. R. & **Beaudet A.** - Preliminary analyses of the vertebral trabecular bone structure of the *Australopithecus* StW 573 ("Little Foot") from Sterkfontein (South Africa). *PaleoAnthropology* 2025:2:635 (poster presentation).
- Berillon G., Duveau J., Cosnefroy Q., Aerts P., Agostini V., Beaudet A., Betti L., Blasi-Toccaceli A., Boursin P., Bruzek J., Callou C., Cazenave M., Chapman T., Chevalier T., Courtenay L. A., Couture-Veschambre C., d'Août K., Daver G., Druelle F., Fischer B., Frémondrière P., Ghisleri M., Grimaud-Hervé D., Grunstra N. D. S., Guy F., Haeusler M., Herrel A., Lamberton F., Lequin M., Lockwood V. A., Martin C.,

- Mitteroecker P., Multon F., Nowicki Z., Pallas L., Perrier A., Perrot A., Poltze V., Rmoutilova R., Rosenberg K. R., Stansfield E., Tessier P., Tholon L., Torres-Tamayo N., Tournan B., Watier B., Watson L. M., Webb N., Wiseman A. L. & Marchal F. - An international research network on bipedalism. *PaleoAnthropology* 2:435 ([poster presentation](#)).
- Cofran Z., **Beaudet A.**, Chinamatira G. & Hawks J. - The bony labyrinth of *Homo naledi*. *PaleoAnthropology* 2:461 ([poster presentation](#)).
- Beaudet A.**, Dupont E., Clarke R.J., Atwood R.C., Fernandez V., Vo N.T., Dumoncel J., Guy F., Carlson K.J., Jashashvili T., Heaton J.L., Pickering T.R., Crompton R., Kuman K., Bruxelles L. & Stratford - Virtual reconstruction and comparative study of the StW 573 *Australopithecus* face. *American Journal of Biological Anthropology* suppl. 79:13 ([podium presentation](#)).
- *Theye C., Stratford D. & **Beaudet A.** - Investigating the vertebral trabecular bone structure of the *Australopithecus* vertebral series StW-8/41 from Sterkfontein (South Africa). *American Journal of Biological Anthropology* suppl. 79:165 ([podium presentation](#)).
- de Jager E., Stratford D. & **Beaudet A.** - Thinking Outside the Skull: Cortical Diversity in Sterkfontein. *American Journal of Biological Anthropology* suppl. 79:39 ([podium presentation](#)).
- Cofran Z., **Beaudet A.**, Chinamatira G. & Hawks J. - The bony labyrinth of *Homo naledi*. *American Journal of Biological Anthropology* suppl. 79:33 ([podium presentation](#)).
- Beaudet A.**, de Jager E., Tawane M. & Billings B. - "L'enfant de Taung" a 100 ans : un siècle de recherche sur le cerveau d'*Australopithecus*. *Bulletins et Mémoires de la Société d'Anthropologie de Paris* suppl. 37. ([podium presentation](#)).
- Beaudet A.**, Engda Redae B. & Boissérie J.-R. - New hominin cranial remains from the Shungura Formation, Lower Omo Valley (Ethiopia). *PaleoAnthropology* 2:377 ([Pecha Kucha presentation](#)).
- *Gourdet G., Pallas L., Boissérie J.-R., Engda Redae B. & **Beaudet A.** - Description and identification of cercopithecoid craniodental remains from Member E of the Shungura Formation, Ethiopia. *PaleoAnthropology* 2:432 ([poster presentation](#)).
- Beaudet A.**, Clarke R.J., Atwood R.C., Fernandez V., Vo N.T., Dumoncel J., Carlson K.J., Jashashvili T., Heaton J.L., Pickering T.R., Crompton R., Kuman K., Bruxelles L. & Stratford - Virtual reconstruction of the StW 573 *Australopithecus* skull. *American Journal of Biological Anthropology* suppl. 77:14 ([online podium presentation](#)).
- Smith C.M., Urciuoli A., Cazenave M., Braga J., **Beaudet A.**, Almécija S., Laitman J.T. & Hammond A.S. - First insights into the inner ear otolith system of *Australopithecus* and *Paranthropus*. *American Journal of Biological Anthropology* suppl. 77:169 ([podium presentation](#)).
- Ruff C.B., Carlson K.J., Burgess L., Kappelman J., Jashashvili R., Heaton J.L., Pickering T.R., Crompton R., **Beaudet A.**, Stratford D., Kuman K., Heile A.J. & Clarke R.J. - Radial to ulnar strength is an arboreal signal in extant hominids and early hominins. *American Journal of Biological Anthropology* suppl. 77:154 ([podium presentation](#)).
- Beaudet A.**, Theye C. & Steininger C. - Identification de deux corps vertébraux du site de Cooper's Cave D (Afrique du Sud) : l'organisation du réseau trabéculaire comme source de caractères diagnostiques. *Bulletins et Mémoires de la Société d'Anthropologie de Paris* suppl. 36 ([podium presentation](#)).
- Theye C. & **Beaudet A.** - Comment les choix méthodologiques influencent l'évaluation des paramètres texturaux de l'os trabéculaire et son interprétation fonctionnelle ? L'exemple des vertèbres chez *Homo*, *Pan* et *Papio*. *Bulletins et Mémoires de la Société d'Anthropologie de Paris* suppl. 36 ([poster presentation](#)).
- Beaudet A.**, Manthi F.K., Mocke H., Ndiema E., Stratford D. & Zipfel B. - Positional behavior in African Miocene hominoids: new insights from the first cervical vertebrae of *Otaviapithecus* and *Nacholapithecus*. *PaleoAnthropology* 2:286 ([Pecha Kucha presentation](#)).
- *de Jager E., Holloway R. & **Beaudet A.** - Cracking the nut of the Nut-Cracker: revisiting the *Paranthropus* endocasts from eastern Africa. *PaleoAnthropology* 2:302 ([Pecha Kucha presentation](#)).
- Beaudet A.** - Interpreting morphological variation within the *Australopithecus*

assemblage from Sterkfontein Member 4 (South Africa): where do we stand? *PaleoAnthropology* 2:432 ([poster presentation](#)).

Beaudet A. - L'endocrâne de Border Cave 1 (Afrique du Sud) : quelle implication pour l'histoire évolutive du cerveau humain ? *Bulletins et Mémoires de la Société d'Anthropologie de Paris* S34 doi:10.4000/bmsap.8305 ([poster presentation](#)).

*Bouchet F., Zanolli C., Almécija S., Fortuny J., Robles J.M., **Beaudet A.**, Moyà-Solà S. & Alba D. - New dental remains of the Miocene small-bodied catarrhine *Pliobates cataloniae*. *American Journal of Biological Anthropology* suppl. 73:19 ([poster presentation](#)).

Carlson K.J., Jashashvili T., Heaton J.L., Pickering T.R., Burgess L., Sarringhaus L., **Beaudet A.**, Crompton R., Stratford D., Kuman K., Clarke R.J. & Ruff C.B. - Relative limb strength in the 3.67 Ma hominin skeleton, StW 573 ("Little Foot"), and its implications for the role of arboreality in hominin evolution. *American Journal of Biological Anthropology* suppl. 73:28 ([podium presentation](#)).

Zanolli C., Urciuoli A., Delgado M., Davies T.W., Bouchet F., Fortuny J., **Beaudet A.**, Alba D.M., Kullmer O. & Skinner M.M. - The phylogenetic signal of the enamel-dentine junction of primate molars. *American Journal of Biological Anthropology* suppl. 73:202 ([podium presentation](#)).

2021

*Babutsi M., Zipfel B., Jakata K., Tommy K., Bam L., Kgotleng D., Tawane M., & **Beaudet A.** - Locomotor behaviour of Plio-Pleistocene cercopithecoids: evidence from trabecular bone properties. *PaleoAnthropology* 1: 151 ([poster presentation](#)).

*de Jager E., Prigge L., Amod N., Oetllé A. & **Beaudet A.** - Bringing blood to the brain: how to estimate the size of the vertebral arteries in fossil specimens. *PaleoAnthropology* 1:167 ([poster presentation](#)).

*Holl M., Biers T., Krüger G. & **Beaudet A.** - How does hyperostosis frontalis interna affect bone cranial vault thickness and organization? *PaleoAnthropology* 1:195 ([poster presentation](#)).

*Pestana C., de Sousa A.A., **Beaudet A.** & Benoit J. - Phylogenetic ancestral character state reconstruction using maximum likelihood of hominin encephalization. *PaleoAnthropology* 1:234 ([poster presentation](#)).

Carlson K.J., Green D.J., Jashashvili T., Pickering T.R., Heaton J.L., **Beaudet A.**, Stratford D., Crompton R., Kuman K., McClymont J., Bruxelles L., Clarke R.J. - The pectoral girdle of StW 573 ('Little Foot') and its implications for hominin evolution. *American Journal of Physical Anthropology* suppl. 71:15 ([podium presentation](#)).

Beaudet A. - Une ou plusieurs espèces d'*Australopithecus* à Sterkfontein (Afrique du Sud) ? Comment interpréter la diversité morphologique dans le registre fossile. *Bulletins et Mémoires de la Société d'Anthropologie de Paris* suppl. 33 ([podium presentation](#)).

2020

Beaudet A., Stieglitz J., Tommy K., Bam L., Van Hoorebeke L. & Stratford D. - Vertebral trabecular bone structure in *Homo*, *Pan* and *Papio*: implications for the identification and biomechanical interpretation of early hominin vertebrae. *Proceedings of the European Society for the Study of Human Evolution* 9:12 ([podium presentation](#)).

*Bouvier M., Fonta C., Mescam M. & **Beaudet A.** - Variation pattern of the imprints of the middle meningeal vessels in extant human endocasts. *Proceedings of the European Society for the Study of Human Evolution* 9: 19 ([poster presentation](#)).

Cazenave M. & **Beaudet A.** - Hip joint loading differences between *Paranthropus robustus* and *Australopithecus africanus* revealed by the cortical bone distribution at the femoral neck. *Proceedings of the European Society for the Study of Human Evolution* 9:24 ([podium presentation](#)).

*Bouchet F., Urciuoli A., **Beaudet A.**, Moyà-Solà S. & Alba D.M. - Orientation and proportions of the carotid canal in *Epipliopthecus* and *Pliobates*. *Proceedings of the European Society for the Study of Human Evolution* 9:18 ([poster presentation](#)).

Bruxelles L., Stratford D., **Beaudet A.**, Dandurand G., Duranthon F., Fourvel J.-B., Jarry M. & Zanolli C. - Looking for new pieces of the Cradle of Humankind in Southern Africa: HON and HOMME research programs. *Proceedings of the European Society for the Study of Human Evolution* 9:20 ([podium presentation](#)).

Beaudet A. - Early hominin brain evolution: what can fossil endocasts tell us? *American Journal of Physical Anthropology* suppl. 69:22 ([invited podium presentation, cancelled](#)).

- 2019 **Beaudet A.**, Clarke R.J., Heaton J.L., Pickering T.R., Carlson K.J., Crompton R., Jashashvili T., Bruxelles L., Jakata K., Hoffman J., Dhaene J. & Stratford D. - The atlas of the *Australopithecus* specimen StW 573 ("Little Foot"). *American Journal of Physical Anthropology* suppl. 68:14 ([podium presentation](#)).
- Jashashvili T., Biren A., Carlson K.J., Heaton J.L., Pickering T.R., Crompton R., Kuman K., **Beaudet A.**, McClymont J., Bruxelles L., Stratford D. & Clarke R. - The wrist and hand of the StW 573 ("Little Foot"). *American Journal of Physical Anthropology* suppl. 68:113-114 ([podium presentation](#)).
- Beaudet A.** - Paléobiodiversité et évolution des hominines du Plio-Pléistocène à Sterkfontein, Afrique du Sud. *Bulletin et Mémoires de la Société d'Anthropologie de Paris* 31 : S10 ([podium presentation](#)).
- 2018 **Beaudet A.**, Clarke R.J., Carlson K.J., Crompton R., de Beer F., Dhaene J., Heaton J.L., Jakata K., Jashashvili T., Pickering T.R. & Stratford D. - Exploring the inner cranial anatomy of "Little Foot": a comparative study of the endocast, and of the bony labyrinth. *Proceedings of the European Society for the Study of Human Evolution* 7: 13 ([podium presentation](#)).
- Crompton R., McClymont J., Heaton J.L., Pickering T.R., Sellers W., Thorpe S., Pataky T., Stratford D., Carlson K., Jashashvili T., **Beaudet A.**, Elton S., Bruxelles L., Goh C., Kuman K. & Clarke R.J. - Ecomorphology of the *Australopithecus prometheus* skeleton, StW573 3.67 Ma, from Sterkfontein Caves, South Africa. *Proceedings of the European Society for the Study of Human Evolution* 7:47 ([podium presentation](#)).
- *Bouchet F., Ribéron A., de Beer R., Jakata K., Tawane M., Tenailleau C., Zipfel B. & **Beaudet A.** - The internal craniodental anatomy of the *Papio* specimen UW 88-886 from Malapa, Gauteng, South Africa. *Proceedings of the European Society for the Study of Human Evolution* 7:24 ([poster presentation](#)).
- Zanolli C., Pan L., Skinner M.M., Dumoncel J., **Beaudet A.**, de Beer F., Hoffman J., Jakata K., Macchiarelli R., Reddy S., Tawane M. & Zipfel B. - What is South African early *Homo*? New insights from the molar endostructural signature. *Proceedings of the European Society for the Study of Human Evolution* 7:206 ([podium presentation](#)).
- Beaudet A.**, Carlson K.J., Clarke R.J., de Beer F., Dierick M., Heaton J.L., Pickering T.R. & Stratford D. - The taxonomic diagnosis of the StW 578 cranium from Jacovec Cavern, Gauteng (South Africa): integrating inner and outer morphology. *American Journal of Physical Anthropology* suppl. 66:22 ([podium presentation](#)).
- *de Jager E., Van Schoor A.N., Hoffman J.W., Oettlé A.C., Fonta C. & **Beaudet A.** - Sulcal pattern variation in extant human endocasts. *American Journal of Physical Anthropology* suppl. 66:63 ([poster presentation](#)).
- Beaudet A.** - Comment reconstruire l'histoire évolutive du cerveau hominine à partir du registre fossile ? Limites et perspectives en paléoneurologie humaine. *Bulletin et Mémoires de la Société d'Anthropologie de Paris* suppl. 30:11 ([podium presentation](#)).
- 2017 **Beaudet A.**, Clarke R., de Beer F., Dierick E., Heaton J.L., Pickering T.R. & Stratford D. - Cranial vault thickness variation and inner structural organization in Plio-Pleistocene hominids from Sterkfontein Caves, South Africa. *Proceedings of the European Society for the Study of Human Evolution* 6:18 ([poster presentation](#)).
- *Bouchet F., Ribéron A., De Beer F., Gilissen E., Tenailleau C. & **Beaudet A.** - A comparative study of endocranial shape asymmetries in extant and extinct cercopithecoid taxa. *Proceedings of the European Society for the Study of Human Evolution* 6:9 ([poster presentation](#)).
- Beaudet A.** & Bruner E. - A deformation-based approach to the frontal lobe morphology in OH9, UA 31 and Bodo. *American Journal of Physical Anthropology* suppl. 64:114 ([podium presentation](#)).
- 2016 **Beaudet A.**, Dumoncel J., de Beer F., Durrleman S., Gilissen E., Hoffman J., Oettlé A., Subsol G., Thackeray J.F. & Braga J. - Morphoarchitectural variation in the extant human endocast. *Proceedings of the European Society for the Study of Human Evolution* 5:46 ([podium presentation](#)).
- Beaudet A.**, Dumoncel J., Bam L., Durrleman S., Gilissen E., Hoffman J., Oettlé A., Thackeray J.F. & Braga J. - Reconstructing early hominin brain evolution from South African *Australopithecus* endocasts. *American Journal of Physical Anthropology* suppl. 62:89 ([podium presentation](#)).

- Cazenave M., **Beaudet A.**, Braga J., Oettlé A., Thackeray J.F., de Beer F. & Macchiarelli R. - The inner structural organization of a (likely) paranthropine patella from Swartkrans Member 2 (SKX 1084): human- and nonhuman-like features. *American Journal of Physical Anthropology* suppl. 62:111 ([poster presentation](#)).
- 2014 **Beaudet A.**, Bruxelles L., Macchiarelli R., Dumoncel J., Thackeray J.F., Bam L., Hoffman J., De Beer F. & Braga J. - Full sequence dating of South African early hominins units based on new cercopithecoid chronological markers. *American Journal of Physical Anthropology* suppl. 58:74 ([poster presentation](#)).
- Beaudet A.**, Bruxelles L., Macchiarelli R., Dumoncel J., Thackeray J.F., De Beer F. & Braga J. - Time-related changes in fossil cercopithecoid inner craniodental structures and chronological seriation of South African hominin-bearing sites. *Proceedings of the European Society for the Study of Human Evolution* 3:37 ([podium presentation](#)).
- 2013 **Beaudet A.**, Bernardini F., Cazenave M., Mazurier A., Radovčić D., Radovčić J., Tuniz C., Volpato V. & Macchiarelli R. - The Neanderthal patella: topographic bone distribution and inner structural organization. *Proceedings of the European Society for the Study of Human Evolution* 2:41 ([poster presentation](#)).
- 2012 **Beaudet A.**, Mazurier A., Volpato V. & Macchiarelli R. - Locomotion-related patterns of cortico-trabecular bone organization beneath the tibial plateau in extant humans, *Pan*, and *Papio*: a 2-3D high-resolution analytical approach. *Proceedings of the European Society for the Study of Human Evolution* 1:37 ([poster presentation](#)).
- Volpato V., **Beaudet A.**, Mazurier A. & Macchiarelli R. - Endostructural conformation and properties of the Neanderthal La Ferrassie 2 tibial plateau. *American Journal of Physical Anthropology* suppl. 54:295 ([poster presentation](#)).
- Volpato V., **Beaudet A.**, Mazurier A. & Macchiarelli R. - L'organisation trabéculaire du plateau tibial néanderthalien La Ferrassie II. *Bulletin et Mémoires de la Société d'Anthropologie de Paris* suppl. 23:38-39 ([podium presentation](#)).

*supervised students and hosted postdocs

[Invited talks in national and international conferences or regional scientific meetings](#)

- 2026 Comparative Brain Meeting (Paris, 27-30/04/2026): **Beaudet A.** - Brain evolution within the hominin lineage.
- 2025 [Round table](#) as part of the annual conference of the European Society for the study of Human Evolution (Paris, 25/09/2025): **Beaudet A.**, Bon C., Canteloup C., Harmand S. & Rigail L. - Qu'est-ce qui fait de nous des humains, de la préhistoire à aujourd'hui ?
- [Symposium](#) entitled "From Anatomy to Behaviour" (Cambridge, 16-17/1/2025): **Beaudet A.** - Integrating outer and inner morphology of fossil primate postcranial remains.
- 2024 [Modalities of the *Homo* genus appearance in southern African paleokarsts](#) (Botswana, 9-10/12/2024): **Beaudet A.** - Hominin evolution in southern Africa: new perspectives.
- [Seminar Series of the Institute of Evolutionary Medicine of the University of Zurich](#) (Zurich, 26/11/2024): **Beaudet A.** - 100 years of *Australopithecus africanus*: where are we now?
- [6e édition du Colloque Annuel du Département d'Anthropologie de l'UdeM](#) (Montréal, 18-20/3/2024): **Beaudet A.** - Le concept d'espèce en paléontologie humaine : frontière réelle ou arbitraire ?
- 2023 [Symposium](#) entitled "Les héritiers de Lucy/Lucy's Heirs" (Paris, 15-16/6/2023): **Beaudet A.** - Une, deux, ou trois espèces d'*Australopithecus* en Afrique australe ? La diversité taxinomique au temps de « Lucy ».
- [Symposium](#) entitled "Beyond Bones: Applying innovative scientific approaches to paleontology and archaeology" (Trieste, 11/10/2023): **Beaudet A.** - Insights from the inside: imaging techniques applied to biological anthropology.
- [Anthropological Seminar Series of the Department of Evolutionary Anthropology of the University of Zurich](#) (Zurich, 8/5/2023): **Beaudet A.** - How did the human brain evolve?

- Seminar** at the National History Museum of London (London, 26/4/2023): **Beaudet A.** - How to interpret morphological variation in the hominin fossil record? Investigating the *Australopithecus* assemblage from South Africa.
- 2022 **Seminar** organised by the UMR 5199 *De la Préhistoire à l'Actuel : Culture, Environnement et Anthropologie* (Bordeaux, 17/10/2022): **Beaudet A.** - Comment a évolué notre cerveau ? Nouvelles données sur l'histoire évolutive du cerveau humain.
- 2021 **Kent BioAnth Seminar Series** (Canterbury, 7/12/2021): **Beaudet A.** - 4 million years of hominin brain evolution.
- Seminar** organised by the UMR 5549 *Centre de Recherche Cerveau & Cognition* (Toulouse, 30/9/2021): **Beaudet A.** - Mapping the brain of fossil hominins: the EndoMap project.
- Department of Higher Education and Training's Future Professors Programme** (online, 30/07/2021): **Beaudet A.** - From bones to 3D models: how imaging techniques have revolutionized the search for human origins.
- Colloquium of the Words and Bones DFG Research Centre of the University of Tübingen** (online, 1/6/2021): **Beaudet A.** - The evolution of the hominin head: perspectives from the *Australopithecus* skull.
- Brain and Behavior Seminar of Bath Spa University** (online, 19/2/2021): **Beaudet A.** - Early hominin brain evolution.
- 2020 **Symposium** entitled "New Frontiers in Human Brain Evolution: Stem cells, Brains and Endocasts" in the frame of the *89th Annual Meeting of the American Association of Physical Anthropologists* (Los Angeles, cancelled due to COVID): **Beaudet A.** - Early hominin brain evolution: what can fossil endocasts tell us?

Contributions to national and international conferences

- 2026 **16th Annual Meeting of the European Society for the Study of Human Evolution** (Burgos, 17-19/09/2023):
- Beaudet A.**, Heaton J.L., Clarke R., Brits D., Meyer A., Stratford D. & Pickering T.R. - A new partial hominin cranium from Member 4 of the Sterkfontein Formation (South Africa) ([Pecha Kucha presentation](#)).
- *Aramendi J., Stratford D., Zipfel B. & **Beaudet A.** - "Little Foot" (StW 573) revisited: digital reconstruction of the femoral head and its significance for understanding locomotor diversity in southern African Plio-Pleistocene hominins ([podium presentation](#)).
- *de Jager E., **Beaudet A.**, Clarisse N.D., Mahamat A., Ahounta D. & Guy F. - Deep learning segmentation of the *Sahelanthropus tchadensis* cranium (TM 266): applying modern computational methods to a challenging synchrotron CT dataset ([poster presentation](#)).
- Delomosne L., Stratford D., Zipfel B., Caruana M., Horn M., Kibii J., Sambo R., Surault J., Berthelot J.-B., Alleau C. & **Beaudet A.** - Virtual archive of fossil hominin specimens from the site of Sterkfontein (South Africa) ([poster presentation](#)).
- *Hill H.R., Momberg D., Davies C., Gilissen E., Surault J., Zipfel B. & **Beaudet A.** - Baby steps: integrating juvenile fossils into analyses of the evolution of brain energetics ([Pecha Kucha presentation](#)).
- *Sanguedolce C., de Jager E., Muteti S., Ndiema E. & **Beaudet A.** - Neuroanatomical diversity in eastern African Pleistocene hominins: a comparative study of *Homo* and *Paranthropus* endocasts ([poster presentation](#)).
- *Theye C.E.G., Stratford D. & **Beaudet A.** - Comparative analytical protocols and AI-based segmentation for trabecular bone analysis: results from extant human and *Australopithecus* vertebrae. ESHE 2026 Abstract Booklet:274 ([poster presentation](#)).
- 10th Biennial Conference of the Eastern African Association for Palaeoanthropology and Palaeontology** (Lake Elementaita, 26-30/7/2026):
- Beaudet A.**, Gilet E., Richard N., Fernandez-Maloigne C., Surault J., Redae B.E., Getachew T.B. & Boisserie J.-R. - New *Homo cf. erectus* cranial remains from the Shungura Formation, Lower Omo Valley (Ethiopia) ([podium presentation](#)).
- *Theye C.E.G., **Beaudet A.**, Clarke R.J., Heaton J.L., Pickering T.R. & Stratford D. - Reconstructing early hominin locomotor behaviour: extracting

functional signals from the vertebral inner structure ([podium presentation](#)).

*de Jager E., **Beaudet A.**, Risser L., Mescam M. & Fonta C. - East African hominins and our understanding of human brain evolution. EAAPP 2026 Book of Abstracts:32 ([podium presentation](#)).

*Hill H.R., Momberg D., Surault J., Zipfel B. & **Beaudet A.** - Investigating brain metabolism within the *Australopithecus* lineage. EAAPP 2026 Book of Abstracts:39 ([podium presentation](#)).

Delomosne L., Beaudet A., Boissérie J.-R., Redae B.E., Getachew T.B., Hill H.R. & Surault J. - Digitizing the eastern African fossil hominin record: a comparative analysis of CT and surface scanning methods ([poster presentation](#)).

2025 [15th Annual Meeting of the European Society for the Study of Human Evolution](#) (Paris, 25-27/9/2023):

Beaudet A., Stratford D., Hom M., *Hill H., *de Jager E. & *Theye C. - A century after the Taung child: new insights into the evolutionary history of *Australopithecus* ([podium presentation](#)).

*Hill H., Momberg D., Tasu J.-P., Guy F., Surault J., Zipfel B., Stratford D. & **Beaudet A.** - From bones to blood to brains: a comparative analysis of the carotid canal in South African fossil hominins ([Pecha Kucha presentation](#)).

*Theye C., Heaton J.L., Stratford D., Clarke R.J., Crompton R., Carlson K.J., Jashashvili T., Pickering T.R. & **Beaudet A.** - Preliminary analyses of the vertebral trabecular bone structure of the *Australopithecus* StW 573 ("Little Foot") from Sterkfontein (South Africa) ([poster presentation](#)).

*Nowicki Z., Guy F., **Beaudet A.**, Blasi-Toccaceli A., Pallas L., Surault J. & Daver G. - Revisiting femoral anteversion in hominoids: a new approach using 3D data ([Pecha Kucha presentation](#)).

*Gilet E., Richard N., Fernandez-Maloigne C., Shock J., Mescam M., Surault J., Chinamira G., Stratford D. & **Beaudet A.** - Identification of fossil hominin cranial fragments: a computer vision-based approach ([poster presentation](#)).

Surault J., Delmosne L., Grohé C., Guy F., *Hill H. & **Beaudet A.** - Exploring applications of intraoral 3D scanning technology in paleontology ([poster presentation](#)).

[94th Annual Meeting of the American Association of Biological Anthropologists](#) (Baltimore, 12-15/3/2025):

Beaudet A., Clarke R.J., *Dupont E., Guy F., Atwood R.C., Fernandez V., Vo N.T., Dumoncel J., Carlson K.J., Jashashvili T., Heaton J.L., Pickering T.R., Crompton R., Kuman K., Bruxelles L. & Stratford - Virtual reconstruction and comparative study of the StW 573 *Australopithecus* face ([podium presentation](#)).

*Theye C., Stratford D. & **Beaudet A.** - Investigating the vertebral trabecular bone structure of the *Australopithecus* vertebral series StW-H8/H41 from Sterkfontein (South Africa) ([podium presentation](#)).

*de Jager E., Stratford D. & **Beaudet A.** - Thinking outside the skull: cortical diversity in Sterkfontein ([podium presentation](#)).

[Journées Annuelles de la Société d'Anthropologie de Paris](#) (Paris, 29-31/1/2025):

Beaudet A., de Jager E., Tawane M & Billings B - "L'enfant de Taung" a 100 ans : un siècle de recherche sur le cerveau d'*Australopithecus* ([podium presentation](#)).

2024 [14th Annual Meeting of the European Society for the Study of Human Evolution](#) (Zagreb, 11-15/9/2024):

Beaudet A., Engda Redae B. & Boissérie J.-R. - New hominin cranial remains from the Shungura Formation, Lower Omo Valley (Ethiopia) ([Pecha Kucha presentation](#)).

*Gourdet G., Pallas L., Boissérie J.-R., Engda Redae B. & **Beaudet A.** - Description and identification of cercopithecoid craniodental remains from Member E of the Shungura Formation, Ethiopia ([poster presentation](#)).

[93rd Annual Meeting of the American Association of Biological Anthropologists](#) (Los Angeles, 20-23/3/2024):

- Beaudet A.**, Clarke R.J., Atwood R.C., Fernandez V., Vo N.T., Dumoncel J., Carlson K.J., Jashashvili T., Heaton J.L., Pickering T.R., Crompton R., Kuman K., Bruxelles L. & Stratford - Virtual reconstruction of the StW 573 *Australopithecus* skull ([online podium presentation](#)).
- Smith C.M., Urciuoli A., Cazenave M., Braga J., **Beaudet A.**, Almécija S., Laitman J.T. & Hammond A.S. - First insights into the inner ear otolith system of *Australopithecus* and *Paranthropus* ([podium presentation](#)).
- Ruff C.B., Carlson K.J., Burgess L., Kappelman J., Jashashvili R., Heaton J.L., Pickering T.R., Crompton R., **Beaudet A.**, Stratford D., Kuman K., Heile A.J. & Clarke R.J. - Radial to ulnar strength is an arboreal signal in extant hominids and early hominins ([podium presentation](#)).
- Journées Annuelles de la Société d'Anthropologie de Paris (Bordeaux, 24-26/1/2024):
Beaudet A., Theye C. & Steininger C. - Identification de deux corps vertébraux du site de Cooper's Cave D (Afrique du Sud) : l'organisation du réseau trabéculaire comme source de caractères diagnostiques ([podium presentation](#)).
- *Theye C. & **Beaudet A.** - Comment les choix méthodologiques influencent l'évaluation des paramètres texturaux de l'os trabéculaire et son interprétation fonctionnelle ? L'exemple des vertèbres chez *Homo*, *Pan* et *Papio* ([poster presentation](#)).
- 2023 13th Annual Meeting of the European Society for the Study of Human Evolution (Aarhus, 21-23/9/2023):
Beaudet A., Manthi F.K., Mocke H., Ndiema E., Stratford D. & Zipfel B. - Positional behavior in African Miocene hominoids: new insights from the first cervical vertebrae of *Otavipithecus* and *Nacholapithecus* ([Pecha Kucha presentation](#)).
- de Jager E., Holloway R. & **Beaudet A.** - Cracking the nut of the Nut-Cracker: revisiting the *Paranthropus* endocasts from eastern Africa ([Pecha Kucha presentation](#)).
- 3rd Biennial Meeting of Cortical Evolution (Burgos, 21-23/6/2023):
Beaudet A. & de Jager E. - Broca's area, variation and taxic diversity in early *Homo* from Koobi Fora (Kenya) ([poster presentation](#)).
- *de Jager E., Holloway R. & **Beaudet A.** - How did our brain evolve? Revisiting the early hominin fossil endocasts ([poster presentation](#)).
- BrAln Evolution: Palaeosciences, neuroscience and artificial intelligence (Johannesburg, 22-23/11/2023):
Beaudet A. & Fonta C. - The EndoMap project: mapping the brain of our ancestors and relatives ([podium presentation](#)).
- 2022 12th Annual Meeting of the European Society for the Study of Human Evolution (Tübingen, 22-24/9/2022):
Beaudet A. - Interpreting morphological variation within the *Australopithecus* assemblage from Sterkfontein Member 4 (South Africa): where do we stand? ([poster presentation](#)).
- 91th Annual Meeting of the American Association of Biological Anthropologists (Denver, 23/3/2022-1/4/2022):
*Bouchet F., Zanolli C., Almécija S., Fortuny J., Robles J.M., **Beaudet A.**, Moyà-Solà S. & Alba D. - New dental remains of the Miocene small-bodied catarrhine *Pliobates cataloniae* ([poster presentation](#)).
- Carlson K.J., Jashashvili T., Heaton J.L., Pickering T.R., Burgess L., Sarringhaus L., **Beaudet A.**, Crompton R., Stratford D., Kuman K., Clarke R.J. & Ruff C.B. - Relative limb strength in the 3.67 Ma hominin skeleton, StW 573 ("Little Foot"), and its implications for the role of arboreality in hominin evolution ([podium presentation](#)).
- Zanolli C., Urciuoli A., Delgado M., Davies T.W., Bouchet F., Fortuny J., **Beaudet A.**, Alba D.M., Kullmer O. & Skinner M.M. - The phylogenetic signal of the enamel-dentine junction of primate molars ([podium presentation](#)).
- Journées Annuelles de la Société d'Anthropologie de Paris (online, 26-28/1/2022):
Beaudet A. - L'endocrâne de Border Cave 1 (Afrique du Sud) : quelle implication pour l'histoire évolutive du cerveau humain ? ([poster presentation](#)).
- 2021 Human Evolution - From Fossils to Ancient and Modern Genomes conference (online,

2-4/11/2021):

Beaudet A., Reyes-Centeno H., d'Errico F., Backwell L., Wadley L., Zipfel B. & de la Peña P. - A revision of the Border Cave 1 cranium ([podium presentation](#)).

22nd Annual Conference of the British Association for Biological Anthropology and Osteoarchaeology (online, 17-19/9/2021):

Beaudet A., de Jager E., Risser L., Mescam M. & Fonta C. - Mapping the brain of fossil hominins: the EndoMap project ([podium presentation](#)).

11th Annual Meeting of the European Society for the Study of Human Evolution (online, 22-24/9/2021):

*Babutsi M., Zipfel B., Jakata K., Tommy K., Bam L., Kgotleng D., Tawane M., & **Beaudet A.** - Locomotor behaviour of Plio-Pleistocene cercopithecoids: evidence from trabecular bone properties ([poster presentation](#)).

*de Jager E., Prigee L., Amod N., Oettlé A. & **Beaudet A.** - Bringing blood to the brain: how to estimate the size of the vertebral arteries in fossil specimens ([poster presentation](#)).

*Holl M., Biers T., Krüger G. & **Beaudet A.** - How does hyperostosis frontalis interna affect bone cranial vault thickness and organization? ([poster presentation](#)).

*Pestana C., de Sousa A.A., **Beaudet A.** & Benoit J. - Phylogenetic ancestral character state reconstruction using maximum likelihood of hominin encephalization ([poster presentation](#)).

90th Annual Meeting of the American Association of Physical Anthropologists (online, 7-28/4/2021):

Carlson K.J., Green D.J., Jashashvili T., Pickering T.R., Heaton J.L., **Beaudet A.**, Stratford D., Crompton R., Kuman K., McClymont J., Bruxelles L., Clarke R.J. - The pectoral girdle of StW 573 ('Little Foot') and its implications for hominin evolution ([podium presentation](#)).

Journées Annuelles de la Société d'Anthropologie de Paris (Paris, 27-29/1/2021):

Beaudet A. - Une ou plusieurs espèces d'*Australopithecus* à Sterkfontein (Afrique du Sud) ? Comment interpréter la diversité morphologique dans le registre fossile ([podium presentation](#)).

2020

10th Annual Meeting of the European Society for the Study of Human Evolution (online, 24-25/9/2020):

Beaudet A., Stieglitz J., Tommy K., Bam L., Van Hoorebeke L. & Stratford D. - Vertebral trabecular bone structure in *Homo*, *Pan* and *Papio*: implications for the identification and biomechanical interpretation of early hominin vertebrae ([podium presentation](#)).

Bouvier M., Fonta C., Mescam M. & **Beaudet A.** - Variation pattern of the imprints of the middle meningeal vessels in extant human endocasts ([poster presentation](#)).

Cazenave M. & **Beaudet A.** - Hip joint loading differences between *Paranthropus robustus* and *Australopithecus africanus* revealed by the cortical bone distribution at the femoral neck ([podium presentation](#)).

*Bouchet F., Urciuoli A., **Beaudet A.**, Moyà-Solà S. & Alba D.M. - Orientation and proportions of the carotid canal in *Epiplioptithecus* and *Pliobates* ([poster presentation](#)).

Bruxelles L., Stratford D., **Beaudet A.**, Dandurand G., Duranthon F., Fourvel J.-B., Jarry M. & Zanolli C. - Looking for new pieces of the Cradle of Humankind in Southern Africa: HON and HOMME research programs ([poster presentation](#)).

Cancelled due to COVID-19 - 89th Annual Meeting of the American Association of Physical Anthropologists (Los Angeles, 15-18/4/2020):

Beaudet A. - Early hominin brain evolution: what can fossil endocasts tell us?

Cancelled due to COVID-19 - Annual Meeting of the Paleoanthropology Society (Los Angeles, abstract accepted):

Beaudet A., Heaton J., Pickering T., Clarke R., Bam L., Van Hoorebeke L. & Stratford D. - Trabecular bone structural variation in the

- vertebral column of *Homo*, *Pan* and *Papio*: taxonomic and functional perspectives in paleoanthropology.
- 2019 **Biennial Meeting of the East African Association of Palaeoanthropology and Palaeontology** (Nairobi, 1-4/8/2019):
Beaudet A., Clarke R.J., Heaton J.L., Pickering T.R., Carlson K.J., Crompton R., Jashashvili T., Bruxelles L., Jakata, K., Hoffman J., Dhaene J. & Stratford D. - New insights into the early hominin atlas anatomy: preliminary description of StW 573 ("Little Foot") and StW 679 ([poster presentation](#)).
 Carlson K.J., Green D.J., Jashashvili T., Pickering T.R., Heaton J.L., **Beaudet A.**, Stratford D., Crompton R., Kuman K., McClymont J., Bruxelles L. & Clarke R.J. - The pectoral girdle of StW 573 ("Little Foot") and its implications for hominin evolution ([poster presentation](#)).
- Annual Meeting of the Paleoanthropology Society** (Albuquerque, 9-10/4/2019):
 Bruxelles L., Stratford D., Maire R., Pickering T., Heaton J., **Beaudet A.**, Kuman K., Crompton R., Carlson K., Jashashvili T., McClymont J., Leader G. & Clarke R. - A multiscale stratigraphic investigation of the context of StW 573 Little Foot and Member 2, Sterkfontein Caves, South Africa ([podium presentation](#)).
- Annual Meeting of the Anatomical Society of Southern Africa** (Pilanesberg, 7-10/4/2019):
Beaudet A., Oettlé A.C., L'Abbé E.N., Stratford D., van Schoor A., de Jager E. & Krüger G.C. - Human evolution in South Africa: from bone collections to human origins ([podium presentation](#)).
 de Jager E.J., van Schoor A.N., Hoffman J.W., Oettlé A.C., Fonta C., Mescam M., Risser L. & **Beaudet A.** - Quantifying the variation of sulcal patterns in extant human endocasts: a probabilistic approach ([podium presentation](#)).
- 88th Annual Meeting of the American Association of Physical Anthropologists** (Cleveland, 27-30/3/2019):
Beaudet A., Clarke R.J., Heaton J.L., Pickering T.R., Carlson K.J., Crompton R., Jashashvili T., Bruxelles L., Jakata, K., Hoffman J., Dhaene J. & Stratford D. - The atlas of the *Australopithecus* specimen StW 573 ("Little Foot") ([podium presentation](#)).
 Jashashvili T., Biren A., Carlson K.J., Heaton J.L., Pickering T.R., Crompton R., Kuman K., **Beaudet A.**, McClymont J., Bruxelles L., Stratford D. & Clarke R. - The wrist and hand of the StW 573 ("Little Foot") ([podium presentation](#)).
- Journées Annuelles de la Société d'Anthropologie de Paris** (Paris, 23-25/1/2019) :
Beaudet A. - Paléobiodiversité et évolution des hominines du Plio-Pléistocène à Sterkfontein, Afrique du Sud ([podium presentation](#)).
- 2018 **20th Biennial Meeting of the Palaeontological Society of Southern Africa** (Bloemfontein, 4-6/7/2018):
 *Mataboge B., Stratford D. & **Beaudet A.** - A microtomographic study of the StW 669 hominin molar from Milner Hall, Sterkfontein, South Africa ([poster presentation](#)).
 Stratford D., Clarke R., Bruxelles L., Pickering T., Heaton J., Carlson K., Jashashvili T., **Beaudet A.** & Crompton R. - The complex taphonomic history of the StW 573 *Australopithecus* skeleton (Sterkfontein, South Africa) as revealed by high-resolution computed tomography data ([poster presentation](#)).
- 8th Annual Meeting of the European Society for the Study of Human Evolution** (Faro, 13-15/9/2018):
Beaudet A., Clarke R.J., Carlson K.J., Crompton R., de Beer F., Dhaene J., Heaton J.L., Jakata, K., Jashashvili T., Pickering T.R. & Stratford D. - Exploring the inner cranial anatomy of "Little Foot": a comparative study of the endocast, and of the bony labyrinth ([podium presentation](#)).
 Crompton R., McClymont J., Heaton J.L., Pickering T.R., Sellers W., Thorpe S., Pataky T., Stratford D., Carlson K., Jashashvili T., **Beaudet A.**, Elton S., Bruxelles L., Goh C., Kuman K. & Clarke R.J. - Ecomorphology of the

Australopithecus prometheus skeleton, StW573 3.67 Ma, from Sterkfontein Caves, South Africa ([podium presentation](#)).

*Bouchet F., Ribéron A., de Beer R., Jakata K., Tawane M., Tenailleau C., Zipfel B. & **Beaudet A.** - The internal craniodental anatomy of the *Papio* specimen UW 88-886 from Malapa, Gauteng, South Africa ([poster presentation](#)).

Zanolli C., Pan L., Skinner M.M., Dumoncel J., **Beaudet A.**, de Beer F., Hoffman J., Jakata K., Macchiarelli R., Reddy S., Tawane M. & Zipfel B. - What is South African early *Homo*? New insights from the molar endostructural signature ([podium presentation](#)).

10^{ème} [Symposium national de Morphométrie et Evolution des Formes](#) (Bordeaux, 18-20/6/2018):

Dumoncel J., Subsol G., Durrleman S., Oettlé A.C., Lockhat Z., Suleman F.E., de Jager E. & **Beaudet A.** - A quantitative comparison of the brain and the inner surface of the cranium ([podium presentation](#)).

2nd [Biennial Meeting of Cortical Evolution](#) (Las Palmas, 4-6/6/2018):

Pereira-Pedro A.S., **Beaudet A.** & Bruner E. - Parietal surface variation in cercopithecoid endocasts ([poster presentation](#)).

87th [Annual Meeting of the American Association of Physical Anthropologists](#) (Austin, 11-14/4/2018):

Beaudet A., Carlson K.J., Clarke R.J., de Beer F., Dierick M., Heaton J.L., Pickering T.R. & Stratford D. - The taxonomic diagnosis of the StW 578 cranium from Jacovec Cavern, Gauteng (South Africa): integrating inner and outer morphology ([podium presentation](#)).

*de Jager E., Van Schoor A.N., Hoffman J.W., Oettlé A.C., Fonta C. & **Beaudet A.** - Sulcal pattern variation in extant human endocasts ([poster presentation](#)).

[Annual Meeting of the Paleoanthropology Society](#) (Austin, 10-11/4/2018):

Beaudet A., Heaton J.L., Pickering T.R. & Stratford D. - Hominin cranial fragments from Milner Hall, Sterkfontein, South Africa ([podium presentation](#)).

[Journées Annuelles de la Société d'Anthropologie de Paris](#) (Poitiers, 24-26/1/2018):

Beaudet A. - Comment reconstruire l'histoire évolutive du cerveau hominine à partir du registre fossile ? Limites et perspectives en paléoneurologie humaine ([podium presentation](#)).

2017 [7th Annual Meeting of the European Society for the Study of Human Evolution](#) (Leiden, 21-23/9/2017):

Beaudet A., Heaton J.L., Pickering T.R., Stratford D. & Clarke R. - Cranial vault thickness variation and inner structural organization in Plio-Pleistocene hominids from Sterkfontein Caves, South Africa ([poster presentation](#)).

*Bouchet F., Ribéron A., De Beer F., Gilissen E., Tenailleau C. & **Beaudet A.** - A comparative study of endocranial shape asymmetries in extant and extinct cercopithecoid taxa ([poster presentation](#)).

3rd [Imaging with Radiation conference](#) (Johannesburg, 14-15/9/2017):

Beaudet A. & De Beer F. - The contribution of X-ray microtomography in reconstructing primate evolutionary history: examples of applications to the South African fossil record ([podium presentation](#)).

*de Jager E., van Schoor A., De Beer F., Oettlé A.C. & **Beaudet A.** - Application of high-resolution imaging techniques in (paleo)neurology: automatic detection of cerebral imprints from cranial endocasts ([podium presentation](#)).

86th [Annual Meeting of the American Association of Physical Anthropologists](#) (New-Orleans, 19-22/4/2017):

Beaudet A. & Bruner E. - A deformation-based approach to the frontal lobe morphology in OH9, UA 31 and Bodo ([podium presentation](#)).

[Annual Meeting of the Paleoanthropology Society](#) (Vancouver, 28-29/03/2017):

Beaudet A., Heaton J.L., Pickering T.R., Stratford D. & Clarke R. - A high resolution microtomographic study of the StW 578 Pliocene hominid cranium from Sterkfontein Cave ([podium presentation](#)).

- 2016 [6th Annual Meeting of the European Society for the Study of Human Evolution](#) (Madrid, 14-18/9/2016):
Beaudet A., Dumoncel J., de Beer F., Durrleman S., Gilissen E., Hoffman J., Oettlé A., Subsol G., Thackeray J.F. & Braga J. - Morphoarchitectural variation in the extant human endocast ([poster presentation](#)).
[8th International Topical Meeting on Neutron Radiography](#) (Beijing, 4-8/9/2016):
 Zanolli C., Schillinger B., **Beaudet A.**, Kullmer O., Macchiarelli R., Mancini L., Schrenk F., Tuniz C. & Vodopivec V. - Exploring the hominin and non-hominin primate dental fossil record with neutron microtomography ([podium presentation](#)).
[19th Biennial Meeting of the Palaeontological Society of Southern Africa](#) (Stellenbosch, 4-9/7/2016):
Beaudet A., Dumoncel J., de Beer F., Durrleman S., Gilissen E., Oettlé A., Subsol G., Thackeray J.F. & Braga J. - Early hominin brain evolution: extracting paleoneurological evidence from the fossil record ([podium presentation](#)).
[7th International Workshop on Biomedical Image Registration](#) (Las Vegas, 1/7/2016):
 Dumoncel J., Subsol G., Durrleman S., Jessel J.-P., **Beaudet A.** & Braga J. - How to build an average model when samples are variably incomplete? Application to fossil data ([podium presentation](#)).
[85th Annual Meeting of the American Association of Physical Anthropologists](#) (Atlanta, 13-16/4/2016):
Beaudet A., Dumoncel J., Bam L., Durrleman S., Gilissen E., Hoffman J., Oettlé A., Thackeray J.F. & Braga J. - Reconstructing early hominin brain evolution from South African *Australopithecus* endocasts ([podium presentation](#)).
 Cazenave M., **Beaudet A.**, Braga J., Oettlé A., Thackeray J.F., de Beer F. & Macchiarelli R. - The inner structural organization of a (likely) paranthropine patella from Swartkrans Member 2 (SKX 1084): human- and nonhuman-like features ([poster presentation](#)).
- 2015 [20^{ème} Édition des Journées du Groupe de Travail en Modélisation Géométrique](#) (Poitiers, 1-2/4/2015) :
 Dumoncel J., Subsol G., Durrleman S., Braga J., **Beaudet A.**, Zanolli C., Mouysset S. & Jessel J.-P. - Comment caractériser la variabilité d'une surface 3D? Analyse à partir d'exemples en anatomie comparée ([podium presentation](#)).
- 2014 [The African Human Fossil Record](#) (Toulouse, 26-27/9/2014) :
Beaudet A., Bruxelles L., Macchiarelli R., Dumoncel J., Thackeray J.F., De Beer F. & Braga J. - The cave deposits of Swartkrans and Kromdraai, South Africa: time-related craniodental morphostructural variation in cercopithecoid taxa and the emergence of *Homo* ([poster presentation](#)).
Beaudet A., Dumoncel J., Thackeray J.F., Durrleman S., Subsol G., Jessel J.-P., De Beer F. & Braga J. - Identification of *Homo*-like features in virtually rendered South African australopith endocasts ([poster presentation](#)).
[4th Annual Meeting of the European Society for the Study of Human Evolution](#) (Florence, 18-20/9/2014):
Beaudet A., Bruxelles L., Macchiarelli R., Dumoncel J., Thackeray J. F., De Beer F. & Braga J. - Time-related changes in fossil cercopithecoid inner craniodental structures and chronological seriation of South African hominin-bearing sites ([podium presentation](#)).
[83th Annual Meeting of the American Association of Physical Anthropologists](#) (Calgary, 8-12/4/2014):
Beaudet A., Bruxelles L., Macchiarelli R., Dumoncel J., Thackeray J.F., Bam L., Hoffman J., De Beer F. & Braga J. - Full sequence dating of South African early hominin units based on new cercopithecoid chronological markers ([poster presentation](#)).
- 2013 [XXXI^{ème} Colloque du Groupement des Anthropologistes de Langue Française](#) (Marseille, 16-18/10/2013):

- Macchiarelli R., **Beaudet A.**, Mazurier A. & Volpato V. - L'extraction de la signature biomécanique du réseau trabéculaire fossile ([podium presentation](#)).
- 3rd Annual Meeting of the European Society for the Study of Human Evolution (Vienne, 19-21/9/2013):
- Beaudet A.**, Bernardini F., Cazenave M., Mazurier A., Radovčić D., Radovčić J., Tuniz C., Volpato V. & Macchiarelli R. - The Neanderthal patella: topographic bone distribution and inner structural organization ([poster presentation](#)).
- 2012 2nd Annual Meeting of the European Society for the Study of Human Evolution (Bordeaux, 21-22/9/2012):
- Beaudet A.**, Mazurier A., Volpato V. & Macchiarelli R. - Locomotion-related patterns of cortico-trabecular bone organization beneath the tibial plateau in extant humans, *Pan*, and *Papio*: a 2-3D high-resolution analytical approach ([poster presentation](#)).
- 81th Annual Meeting of the American Association of Physical Anthropologists (Portland, 11-14/4/2012):
- Volpato V., **Beaudet A.**, Mazurier A. & Macchiarelli R. - Endostructural conformation and properties of the Neanderthal La Ferrassie 2 tibial plateau ([poster presentation](#)).
- Journées Annuelles de la Société d'Anthropologie de Paris (Bordeaux, 25-27/1/2012):
- Volpato V., **Beaudet A.**, Mazurier A. & Macchiarelli R. - L'organisation trabéculaire du plateau tibial néanderthalien La Ferrassie II ([podium presentation](#)).
- Contributions to regional academic meetings
- 2026 Journée Scientifique 2026 du Mésocentre de Calcul Intensif Aquitain (Limoges, 4/6/2026):
- Beaudet A.**, Aramendi J., Karoui Canedo J., Dumoncel J. - From fossils to supercomputers: high-performance computing for investigating morphological change through time ([podium presentation](#)).
- 2025 Prospective Biodiversité et IA hosted by CNRS-Ecologie et environnement (Paris, 13-14/9/2025) :
- Beaudet A.**, Gilet E., Richard N., Fernandez-Maloigne C., Shock J., Mescam M., Fonta C. & Surault J. - AI and past biodiversity: towards a new interpretation of the fossil record ([flash talk](#)).
- *Theye C. & **Beaudet A.** - Applying AI-driven segmentation approaches to investigate the bone microarchitecture of past primate biodiversity.
- Journée de Microscopie de Poitiers (Poitiers, 5/5/2025):
- Beaudet A.** - Applications of advanced imaging and 3D modelling techniques in paleoanthropology ([poster presentation](#)).
- *Theye C. & **Beaudet A.** - Different methods, different results: how methodological choices affect bone structure research ([poster presentation](#)).
- *Hill H., Tasu J.-P., Thomas C., Guy F. & **Beaudet A.** - Hominins in the hospitals: how medical imaging software can aid palaeontological investigations of brain metabolic evolution ([podium presentation](#)).
- 2021 The deep history of obesity and metabolic disease: The past informs the present, and the present informs the past (online, 26/5/2021):
- Beaudet A.** - How did the human brain metabolism evolve? ([podium presentation](#))
- 2020 The Garrod Research Seminars of the Department of Archaeology of the University of Cambridge (online, 5/11/2020):
- Beaudet A.** - *Australopithecus* from Sterkfontein Caves (South Africa): An evolutionary species? ([podium presentation](#))
- 2019 French - South African Science and Innovation Days (Pretoria, 2-3/12/2019):
- Beaudet A.** & Stratford D. - Applications of advanced imaging and 3D modelling techniques in paleoanthropology ([poster presentation](#)).

- Bruxelles L., Stratford D., **Beaudet A.**, Dandurand G., Duranthon F., Fourvel J.B. & Zanolli C. - Looking for new pieces of the Cradle of Humankind in Southern Africa ([poster presentation](#)).
- Dumoncel J., **Beaudet A.**, Briers N., de Jager E., Jagesur S., Lockhat Z., Meyer P., Oettlé A. & Suleman F. - Academic collaborations in morphometry between French and South African Universities ([poster presentation](#)).
- 2018 [2nd University of Johannesburg Palaeo-research symposium](#) (Johannesburg, 1/11/2018):
- *Mataboge B., **Beaudet A.** & Stratford D. - A microtomographic study of the StW 669 hominin molar from the Milner Hall, Sterkfontein Caves, South Africa ([podium presentation](#)).
- [Scientific meeting of the UMR 7194](#) (Paris, 6/9/2018):
- Beaudet A.** - Paléobiologie et évolution des hominines du Plio-Pléistocène en Afrique du Sud ([podium presentation](#)).
- [Seminar at the University of the Witwatersrand](#) (Johannesburg, 1/8/2018):
- Beaudet A.** - Human evolution in South Africa ([podium presentation](#)).
- [Seminar at the University of the Witwatersrand](#) (Johannesburg, 6/4/2018):
- *Bouchet F. & **Beaudet A.** - A microtomographic study of the *Papio* specimen UW 88-886 from Malapa, Gauteng, South Africa ([podium presentation](#)).
- 2017 [Research Day of the Sefako Makgatho Health Sciences University](#) (Pretoria, 22-24/8/2017):
- Beaudet A.** & Oettlé A. - Human brain evolution: perspectives from advanced imaging techniques ([poster presentation](#)).
- [Seminar at the University of the Witwatersrand](#) (Johannesburg, 25/05/2017):
- Beaudet A.** - The contribution of the South African fossil primate record in unravelling the history of our ancestors ([podium presentation](#)).
- 2016 [Réseau Thématique Pluridisciplinaire Tomo3D CNRS-INEE](#) (Toulouse, 8-9/11/2016) :
- Beaudet A.** - Vers une analyse automatisée des sillons cérébraux chez les hominines fossiles ([podium presentation](#)).
- [Faculty Research Day of the University of Pretoria](#) (Pretoria, 23-24/8/2016):
- Beaudet A.**, Dumoncel J. & Oettlé A. - Reconstructing early hominin brain evolution from advanced methods of high-resolution 3D imaging and computing ([poster presentation](#)).
- 2015 [Séminaire APR des doctorants promotion 2012](#) (Toulouse, 21/6/2015):
- Beaudet A.**, Braga J. & Bon F. - Étude des primates fossiles non-humains en Afrique du Sud : évolution biologique et reconstructions des paléoenvironnements ([podium presentation](#)).
- [Vèrnes Journées ED BSB](#) (Toulouse, 1-3/5/2015):
- Beaudet A.** - Time-related changes in fossil cercopithecoid inner craniodental structures and chronological seriation of South African hominin-bearing sites ([podium presentation](#)).

*supervised students and hosted postdocs

Fieldwork and study activities in research institutions and bone collections

- 2026 [Chad](#): excavations in the Toros Menella area (dir. F. Guy et C. Nekoulngang Djetounako).
- 2025 [Ethiopia](#): study of fossil hominins from Omo and Hadar at the National Museums of Ethiopia.
- 2024 [Botswana](#): excavations in the Gcwihaba and Bone Cave (dir. L. Bruxelles)
- [Chad](#): excavations in the Toros Menella area (dir. F. Guy et C. Nekoulngang Djetounako).
- [South Africa](#): study of fossil hominins from Sterkfontein at the University of the Witwatersrand.
- 2023 [USA](#): study of fossil hominin brain endocasts from R. Holloway's collection at Columbia University.
- [Ethiopia](#): study of fossil hominins from Omo at the National Museums of Ethiopia.
- 2022 [Kenya](#): study of fossil primates at the National Museum of Kenya..

- 2021 **Namibia**: study of fossil hominins and papionins from the Otavi Mountains at the Geological Survey Museum of Namibia.
- UK**: study of extant hominoid vertebrae at the National History Museum of London.
- 2019 **Mozambique**: exploration of the Sofala region in the frame of the Human Origins in Mozambique and Malawi Environments project (dir. L. Bruxelles).
- Namibia**: exploration of the Otavi region in the frame of the Human Origins in Namibia project (dir. L. Bruxelles); the study of fossil hominins and papionins from the Otavi Mountains at the Geological Survey Museum of Namibia for.
- USA**: study of the cast of the East African hominin specimen AL 333-83 at the Cleveland Museum of Natural History for the.
- 2018 **Belgium**: study of extant hominoid specimens at the Royal Museum for Central Africa of Tervuren.
- 2014-2015 **Belgium**: study of extant cercopithecoid specimens at the Royal Museum for Central Africa of Tervuren.
- 2014 **USA**: study of African extant and fossil cercopithecoid remains at the University of California at Berkeley and the New York Consortium in Evolutionary Primatology.
- 2013-2016 **South Africa**: exploration of the "Cradle of Humankind" and excavations of the Plio-Pleistocene deposits at Kromdraai B in the frame of the Kromdraai Research Project (dir. J. Braga and J.F. Thackeray); study of fossil cercopithecoid and hominin remains at the Ditsong National Museum of Natural History and to the University of the Witwatersrand.
- 2013-2015 **France**: study of extant primate specimens at the *Muséum national d'Histoire naturelle* of Paris for the.
- 2011 **France**: excavations of the Middle Paleolithic site of Abri du Maras, Ardèche (dir. M.-H. Moncel).

MEMBERSHIPS, EDITORIAL AND ASSOCIATION ACTIVITIES

Memberships

- **Member of**: American Association of Physical Anthropologists, Anatomical Society of Southern Africa, British Association for Biological Anthropology and Osteoarchaeology, réseau scientifique European Network for Brain Evolution Research, European Society for the study of Human Evolution, Paleoanthropology Society, réseau scientifique Tomo3D, Royal Microscopical Society, Société d'Anthropologie de Paris.

Editorial activities

- **Associate Editor** (2018-2024): Journal of Human Evolution.
- **Reviewer of scientific articles**: Annals of the Ditsong National Museum of Natural History, American Journal of Physical Anthropology, American Journal of Primatology, Comptes Rendus Palevol, Frontiers, Intellectica, Journal of Anthropological Sciences, International Journal of Primatology, Journal of Human Evolution, Journal of Neurolinguistics, Journal of Imaging, Nature Ecology & Evolution, Paléorient, PLoS ONE, Proceedings of the National Academy of Sciences U.S.A., Proceedings of the Royal Society B, Revue de Primatologie, Science, The Anatomical Record.

Association activities

- **Regular Board Member** of the European Society for the study of Human Evolution (elected in 2021 and re-elected in 2023 and 2025).

ACADEMIC EXAMINATION ACTIVITIES

Examination committees

- 2026 Member of the PhD committee of P. Gousset from the Muséum d'Histoire Naturelle de Paris (**France**). Dissertation: *Phylogenetic analysis of the recent species of the genus Homo: dispersals, evolution, extinction*.
- 2025 Member of the HDR (*Habilitation à Diriger des Recherches*) committee of S. Prima from the University of Rennes (**France**). Dissertation: *Quelques notes historiques et méthodologiques sur certaines asymétries cérébrales et leur évaluation sur des surfaces 3D*.

- Member of the PhD committee of M. Malherbe from the University of Zurich ([Switzerland](#)). Dissertation: *Palaeoenvironmental reconstruction of South Africa's Cradle of Humankind. Direct and indirect behavioural signals from bovids*.
- Member of the PhD committee of J. Hui from Sorbonne University ([France](#)). Dissertation: *Anatomie comparée des vaisseaux diploïques chez les hominidés : Implications pour l'histoire évolutive de la circulation sanguine crânienne humaine*.
- 2024 Member of the PhD committee of Q. Cosnefroy from the University of Aix-Marseille ([France](#)). Dissertation: *Morpho-structural properties of the femur and the pelvis: the relationship to positional repertoires among extant primates and fossil Homo*.
- 2021 Member of the PhD committee of K.G.R. Janin from the University of Cambridge ([UK](#)). Dissertation: *The role of modularity and integration in shaping primate pelvic girdle evolution*.
- Member of the PhD committee of S. Paris from the University of Cambridge ([UK](#)). Dissertation: *Study in Scarlet: A Bioarchaeological Investigation of the Differential Use of Ochre in Burial Practices at Khok Phanom Di, Central Thailand*.
- 2020 Member of the PhD committee of J. Aramendi Picado from the University of Madrid ([Spain](#)). Dissertation: *A new morphometric approach to the study of Plio-Pleistocene hominin biomechanics and adaptation*.

PhD progress committees

- 2024-2027 Member of the PhD progress committee of E. Lazzaro supervised by C. Amiez and H. Loevenbruck from the University of Lyon ([France](#)). Dissertation: *L'operculum préfrontal, sa mise en place anatomo-fonctionnelle lors du développement et son rôle dans le contrôle cognitif de l'endophasie*.
- 2021-2024 Member of the PhD progress committee of M. Augoyard supervised by P. Bayle and C. Zanolli from the University of Bordeaux ([France](#)). Dissertation: *Covariation des tissus dentaires et osseux dans la lignée humaine - Étude de l'influence de l'âge, du sexe et de l'origine dans les proportions tissulaires des humains modernes et évolution dans les genres Australopithecus, Paranthropus et Homo*.
- Member of the PhD progress committee of J. Hui supervised by A. Balzeau from Sorbonne University ([France](#)). Dissertation: *Anatomie comparée des vaisseaux diploïques chez les hominidés : Implications pour l'histoire évolutive de la circulation sanguine crânienne humaine*.

Reviewer of grand proposals

- Agence Nationale de la Recherche, Centre of Excellence in Palaeosciences, National Science Centre of Poland, McDonald Institute for Archaeological Research, National Science Foundation of the United-States, Leakey Foundation, National Research Foundation of South Africa.

ORGANISATION OF SCIENTIFIC EVENTS

- 2026 Founder and co-organiser of the [round table](#) *Femmes de Sciences, Femmes en Sciences* (Poitiers, 12/3/2026).
- 2025 Co-organiser of the workshop [AI and Image 1](#) as part of the *Prospective Biodiversité et IA* hosted by CNRS-Ecologie et environnement (Paris, 13-14/9/2025).
Member of the local organiser and scientific committees of the [37^{ième} Colloque de la Société Francophone de Primatologie](#) (Poitiers, 30-3/10/2025).
- 2024 Founder and organiser of the [workshop](#) *Deformetrica* (Poitiers, 6-7/6/2024).
- 2023 Co-founder and co-organiser of the [conference](#) *BrAI'n Evolution: Palaeosciences, neuroscience and artificial intelligence* (Johannesburg, 22-23/11/2023).
- 2022 Founder and co-organiser of the [webinar](#) *Women in Bio Anth and Archaeology* (online, 11/3/2022).
- 2021 Co-founder and co-organiser of the [workshop](#) *From Fossils to Mind* (online, 30/11/2021-1/12/2021).
Organiser of the [seminar](#) of the Biological Anthropology Seminar Series of the Department of Archaeology of the University of Cambridge (online, Lent term).
- 2020 Co-organiser of the [workshop](#) NRF-ESS BrightnESS workshop on the use of neutron radiation in palaeontology (online, 18/9/2020).
- 2017 Co-organiser of the [seminar](#) entitled *3.5 million years of human evolution at Sterkfontein* supported by the *Institut Français d'Afrique du Sud* (Johannesburg, 24/8/2017).

- 2014 Member of the executive committee of the [international symposium](#) *The African Fossil Human Record* (Toulouse, 26-27/9/2014).

SCIENTIFIC DISSEMINATION

Dissemination articles

- 2026 **Beaudet A.** - Un nouveau visage pour Little Foot, l'australopithèque le plus complet jamais mis au jour. *The Conversation France*.
- Beaudet A.** - A new face for 'Little Foot', the most complete Australopithecus skeleton to date. *The Conversation Africa*.
- 2024 **Beaudet A.** - Comment notre cerveau a-t-il évolué ? *The Conversation France*.
- Beaudet A.** & Merceron G. - La paléobiologie d'*Australopithecus afarensis*. *Archeologia* 636: 42-43.
- Beaudet A.** - Le cerveau de « Lucy » et les siens. *Dossiers d'Archéologie* 426: 48-49.
- 2022 **Beaudet A.** - Digitizing and Re-Analyzing the Fossil Primate Record of Namibia. *Lesedi* 25: 26-29.
- 2020 **Beaudet A.** & Bruxelles L. - Le saisissant atlas de Little Foot. *Archeologia* 587: 10-12.
- Beaudet A.** - A tiny bone from Little Foot's skeleton adds fresh insights into what our ancestors could do. *The Conversation Africa*.
- 2019 **Beaudet A.** - Virtual images reveal secrets of an ancient fossil's brain and inner ear. *The Conversation Africa*.
- Dumoncel J., **Beaudet A.**, Braga J., Subsol G. & Jessel J.-P. - Le cerveau caché. Dans : Gex J.-P. (Ed.) *Voir l'invisible : Comprendre – Agir. Tome 2*. Puits Fleuris, Saint-Just-La-Pendue, p. 16-17.
- 2018 **Beaudet A.** - Explorer le passé à Sterkfontein : comment l'examen virtuel des restes fossiles participe à la (re)découverte de notre histoire. *Lesedi* 20: 38-45.

Conferences for a large audience

- 2025 *Qu'est-ce qui fait de nous des humains, de la préhistoire à aujourd'hui ?* Opening conference (round table) at the annual meeting of *European Society for the study of Human Evolution* at the city hall of the (Paris, 25/9/2025)
- Australopithecus a 100 ans : un siècle de découvertes qui réécrivent notre histoire.* Invited talk as part of the *Lundis de La Chapelle-aux-Saints (France)* (La Chapelle-aux-Saints, 21/12/2025).
- La folle histoire de l'évolution du cerveau humain.* Opening conference (round table) of the Brain Awareness Week at the city hall (Paris, 3/3/2025).
- 2024 *Lucy, anatomie d'une chute. 50 ans après sa découverte, un fossile parmi d'autres ?* Talk given at the Espace Mendès France of Poitiers, *France* (Poitiers, 21/11/2024).
- Comment a évolué notre cerveau ? Une histoire vieille de 7 millions d'années racontée par les fossiles.* Talk given at the Espace Mendès France of Poitiers, *France*, as part of the Brain Awareness Week (Poitiers, 12/3/2024).
- Qui était Australopithecus ? Enquête au coeur des « Berceaux de l'Humanité ».* Invited talk at the University of Poitiers as part of the *Amphis du Savoir* series, *France* (Poitiers, 18/1/2024).
- 2021 Invited contribution to the [webinar](#) series *Inspiring South African Women of Neuroscience* organized by the Wits Neuroscience Research Lab (online, 13/8/2021).
- 2019 *Who was "Little Foot"?* Invited talk given at the French Residence, Johannesburg (*South Africa*), as part of the celebration of the *25th anniversary of the first discovery of Little Foot by Prof. Ronald J. Clarke with an introduction of the complete cast* (Johannesburg, 03/04/2019).
- 2018 *Human brain evolution: what can fossils tell us?* Invited talk at the University of the Witwatersrand, Johannesburg (*South Africa*), as part of the seminar entitled *The Evolution of the brain, from pre-mammalian reptiles to humans*, invited talk from the *Wits Cortex Club* (11/8/2018).
- 2017 *The Sterkfontein hominin assemblage: how the world's richest Australopithecus-bearing site contributes to unveiling the human brain evolutionary history.* Talk given at the University of the Witwatersrand, Johannesburg (*South Africa*), as part of the

seminar entitled *3.5 million years of human evolution at Sterkfontein* hosted by the French Institute for South Africa.

- 2015 [À la recherche de nos ancêtres : la lignée humaine](#). Talk given at Naintré (France).
 2014 [Impressions 3D en paléobiologie](#). Talk given at the fablab "CampusFab" of the University of Toulouse Paul Sabatier (France).

Media

- 2026 Press release *Première reconstitution numérique de la face de « Little Foot »* for the CNRS (French).
 Interview for [Futura-Sciences](#), [L'Humanité](#), [Le Figaro](#), [Le Monde](#), [Libération](#), [Science et Vie](#), [Télérama](#) (French) and [CNN](#), [Interesting Engineering](#), [Scientific American](#), [Science News](#) (English) on the reconstruction of the face of "Little Foot".
 Interview for [France Culture](#) "Avec Sciences" and [France Inter](#) (French) and [CGTN](#) (English) on the reconstruction of the face of "Little Foot".
 2025 Interview for the journal [Curionauts des sciences](#) as part of a special issue about human evolution (French).
 Interview for the documentary "Homo fictionus" produced by [Arte](#) and ZED (French).
 Interview for [France Culture](#) "La Science, CQFD" as part as the Brain Awareness Week (French).
 2024 Press release *Les innovations méthodologiques peuvent-elles contribuer à faire progresser les recherches en paléoneurologie ?* for [CNRS-Sciences Humaines et Sociales](#) (French).
 Interview for the journal [Okapi](#) about "Lucy" (French).
 2023 Press release *Cartographier le cerveau de nos ancêtres : le projet EndoMap* for [CNRS-Biologie](#).
 Interview for [Radio-Canada](#) (Canada) on the EndoMap project (French).
 Interview for the journal [New Scientist](#) on hominin brain evolution (English).
 2021 Press release *New technology allows scientists first glimpse of intricate details of Little Foot's life* for [Diamond Light Source](#) (English).
 Interview for [France Inter](#) (France), [BBC 4](#) (UK), [Radio-Canada](#) (Canada) and [CapeTalk](#) (South Africa) on the scanning of "Little Foot" at the synchrotron facility of Diamond Light Source (French and English).
 2020 Press release *"Little Foot" skull reveals how this human ancestor lived* for the University of the Witwatersrand (English).
 Press release *"Little Foot" nous en apprend plus sur le mode de vie de notre ancêtre lointain Australopithecus* for [CNRS-INEE](#) (French).
 Interview for the [The New York Times](#) on *How a human cousin adapted to a changing climate* (English).
 2019 Interview for the [Curiosity](#) magazine (University of the Witwatersrand) on the evolution of language (English).
 Interview [LiveScience](#) *New Fossil Reveals Face of Oldest Known 'Lucy' Relative* (English).
 Interview [The Conversation Africa](#) for the International Day of Women and Girls in Science (English).
 Interview for the [Wild Dog](#) productions on "Little Foot" (English).
 Press release *Little Foot's inner ear sheds light on her movement and behaviour* for the University of the Witwatersrand (English).
 2018 Press release *Peering into Little Foot's 3.67 million-year-old brain* for the University of the Witwatersrand (English).
 Interview for the [CNRS](#) and [Le Monde](#) on "Little Foot" (French).
 Interview for [France Culture](#) "La fabrique de l'histoire" on "Little Foot" (French).
 Interview for [TF1](#) "Le journal de 20 heures" on "Little Foot" (French).
 Press release *Cranium of a four-million-year-old hominin shows similarities to ours* for the University of the Witwatersrand (English).
 Interview for [Kumkani FM](#) on the StW 578 cranium (English).

Newsletters

- 2017 **Beaudet A.** & Stratford D. - A high resolution microtomographic study of the StW 578 Pliocene hominid cranium from Sterkfontein Cave. *GAES newsletter*.

Exhibitions in museum

- 2024 Scientific expert for the Sciences.live podcast “Etre ou ne pas être...humains” developed by the Espace Mendès France ([France](#)).
- 2022 Scientific expert for the exhibition “Face to Face” held at the Visitor Center of the “Cradle of Humankind” at Maropeng ([South Africa](#)) on hominin brain evolution.
- 2016 Scientific expert for the exhibition to be held at the Visitor Center of the “Cradle of Humankind” at Maropeng ([South Africa](#)) on human evolution.

STUDENT AND STAFF SUPERVISION

1 research assistant, 4 postdoctoral researchers, 4 PhD students, 22 Master students, 4 Honour students, 3 Undergraduate students

Staff

- 2025 Research assistant at PALEVOPRIM ([France](#)) within the frame of the LHOSA project (L. Delomosne, 2025-2026).

Postdoctoral researchers

- 2026 Host of a post-doctoral researcher at PALEVOPRIM ([France](#)) with a project entitled: *How did our brain evolve? Looking for the origins of the human brain* (J. Aramendi, 2026).
- 2025 Host of a post-doctoral researcher at PALEVOPRIM ([France](#)) with a project entitled: *How did our brain evolve? Looking for the origins of the human brain* (E. de Jager, 2025-2027).
- 2024 Host of a post-doctoral researcher at PALEVOPRIM ([France](#)) with a project entitled: *Walking with our ancestors: how did locomotor behaviour influenced the brain of fossil hominins?* (C. Theye; 2024-2026).
- 2023 Host of a post-doctoral researcher at the University of Cambridge ([UK](#)) with a project entitled: *Exploring locomotor diversity in the human hominin fossil record based on long bone external morphology* (J. Aramendi; 2023-2025).

PhD students

- 2024 Supervision of a PhD student in **Paleoanthropology** from the University of Poitiers ([France](#)) with a dissertation entitled *Evolution of brain metabolism within the human lineage* (H. Hill; 2024-2029).
- 2023 Co-supervision of a PhD student in **Biological Anthropology** from the University of Cambridge ([UK](#)) with a dissertation entitled *How did the masticatory system evolve? Investigating teeth and bone microstructure of extant and fossil apes through synchrotron X-ray microtomography* (G. Castelli; 2023-2026).
- 2021 Supervision of a PhD student in **Biological Anthropology** from the University of Cambridge ([UK](#)) with a dissertation entitled *How did the Human Brain Evolve? Tracking Cerebral Changes in the Fossil Hominin Record Using Advanced Imaging Techniques and 3D Modelling* (E. de Jager; 2021-2024).
- 2019 Co-supervision of a PhD student in **Paleontology** from the *Institut Català de Paleontologia Miquel Crusafont* ([Spain](#)) with a dissertation entitled *Phylogenetic implications of the craniodental morphology of Pliobates cataloniae* (F. Bouchet; 2019-2022).
- 2017 Training in virtual imaging and analysis in paleoneurology of a PhD student from the *Centro Nacional de Investigación sobre Evolución Humana* of Burgos ([Spain](#)) and co-supervision of her research project on nonhominin primate parietal lobes (S. Pereira-Pedro; 2017).

Master students

- 2026 Co-supervision of a Master 1 student in **Paleontology** from the University of Poitiers ([France](#)) with a project entitled: *Vers une identification automatisée des fragments crâniens : remontage virtuel d'un crâne humain* (J. Ronday).
- Co-supervision of a Master 1 student in **Paleontology** from the University of Lille ([France](#)) with a project entitled: *The study of the imprints of the middle meningeal vessels in extant and fossil hominids* (A. Argoud-puy).

- Co-supervision of a Master 2 student in **Computer Vision** from the University of Bretagne Occidentale (**France**) with a project entitled: *Caractérisation locale de l'os crânien par métrologie: vers la localisation automatique de fragments* (A. El Jid).
- Co-supervision of a Master 2 student in **Paleontology** from the University of Poitiers (**France**) with a project entitled: *Diversité neuroanatomique au Pléistocène en Afrique de l'Est : Description et analyse comparative des empreintes neurovasculaires chez Homo et Paranthropus* (C. Sanguedolce).
- 2025 Co-supervision of a Master 1 student in **Paleontology** from the University of Poitiers (**France**) with a project entitled: *Morphologie et anatomie interne des incisives de Mammifères : Application à l'incisive de Montredon* (C. Sanguedolce).
- Co-supervision of a Master 2 student in **Computer Vision** from the University of Poitiers (**France**) with a project entitled: *Développement d'une nouvelle approche pour l'identification de restes osseux dans un contexte paléontologique* (E. Gilet).
- 2024 Co-supervision of a Master student in **Archaeology** from the University of the Witwatersrand (**South Africa**) with a dissertation entitled *Quantitative and qualitative morphological analysis of the StW 573 ribcage* and a 3-month stay in France covered by the programme *Mobilités croisées* of the French Embassy in South Africa (B. Presbury, 2024-2025).
- Co-supervision of a Master student in **Archaeology** from the University of the Witwatersrand (**South Africa**) with a dissertation entitled *Non-Hominin Primates: the ecomorphological analysis of fossil monkey post-crania to assess environmental changes between Member 4 and Member 5* and a 3-month stay in France covered by the programme *Mobilités croisées* of the French Embassy in South Africa (S. Page, 2024-2025).
- 2023 Supervision of a Master 1 student in **Paleontology** of the University of Poitiers (**France**) with a dissertation entitled *Variation de l'épaisseur de la voûte crânienne chez les hominines fossils du Plio-Pléistocène et identification des restes crâniens de Koobi Fora* (M. Challin).
- Supervision of a Master 2 student in **Paleontology** of the University of Poitiers (**France**) with a dissertation entitled *Description et identification de restes crânio-dentaires de cercopithecids du Membre E de la formation de Shungura (2,4-2,3 Ma, Éthiopie)* (G. Gourdet).
- Co-supervision of a Master 1 student in **Systematics, evolution, paleontology** of Sorbonne Université-Muséum national d'Histoire naturelle de Paris (**France**) with a dissertation entitled *Variation morphologique de la face des hominoïdes : application à la reconstruction d'un crâne d'hominine fossile* (E. Dupont).
- 2022 Supervision of an MPhil student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *Interaction between two sympatric hominins - Paranthropus boisei and Homo habilis* (C. Gupta; 2022-2023).
- Supervision of an Undergraduate student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *The association between teeth morphology and diet: Papio, Theropithecus and the implications for hominin evolution* (J. Gathercole; 2022-2023).
- 2021 Supervision of an MPhil student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *The investigation of the internal bone structure of the fossil phalanx StW 668 from Sterkfontein Caves (South Africa) and its implications for hominin locomotion and tool use* (G. Hodgkins-Brown; 2021-2022).
- Supervision of an MPhil student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *Assessing the age at death, dental developmental pattern and taxonomic status of a Limnopithecus mandible from Songhor using synchrotron data* (J. Shiffert; 2021-2022).
- 2020 Supervision of an MPhil student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *A cross-species comparison of primate group structure: links between life history traits and social organisation* (M. Kocsis; 2020-2021).
- Supervision of an MPhil student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *Does the size and organization of the insular cortex predict social behaviour in Pan?* (W. Silcox; 2020-2021).
- Supervision of an MPhil student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *Towards an aetiology for hyperostosis*

frontalis interna: a study of pathological thickness variation of the diploic and cortical frontal bones in fossils and extant humans (M. Holl; 2020-2021).

Co-supervision of a Master student in **Paleontology** from the University of the Witwatersrand (**South Africa**) with a dissertation entitled *Reconstructing locomotor behaviour of southern African Plio-Pleistocene cercopithecoids: evidence from functionally-related inner structural arrangement of the trabecular bone* (M. Babutsi; 2020-2022).

2017 Co-supervision of a Master 2 student in **Biodiversity, ecology and evolution** from the University of Toulouse (**France**) with a dissertation entitled *A high-resolution microtomographic study of the Papio specimen UW 88-886 from the Early Pleistocene site of Malapa, Gauteng, South Africa* (F. Bouchet; 2017-2018).

Co-supervision of a Master student in **Anatomy** from the University of Pretoria (**France**) with a dissertation entitled *Exploring an innovative method for the automatic recognition of cortical sulci in cranial endocasts* (E. de Jager; 2017-2018).

2016 Supervision of a Master 1 student in **Biodiversity, ecology and evolution** from the University of Toulouse (**France**) with a dissertation entitled *Étude comparative des asymétries de l'endocrâne chez les cercopithécoïdes actuels et fossiles* (F. Bouchet; 2016-2017).

Honour students

2020 Co-supervision of an Honour student in **Paleontology** from the University of the Witwatersrand (**South Africa**) with a dissertation entitled *Phylogenetic ancestral character reconstruction using maximum likelihood of hominin encephalization* (C. Pestana; 2020).

2019 Supervision of an Honour student in **Paleontology** from the University of the Witwatersrand (**South Africa**) with a dissertation entitled *Locomotor and habitat reconstruction of Plio-Pleistocene cercopithecoids: evidence from trabecular bone organisation* (M. Babutsi; 2019).

Co-supervision of an Honour student in **Paleontology** from the University of the Witwatersrand (**South Africa**) with a dissertation entitled *Comparative description of new cercopithecoid dental material from the Plio-Pleistocene sites of Sterkfontein Member 4, South Africa* (C. Thorvaldsson; 2019).

2018 Co-supervision of an Honour student in **Paleontology** from the University of the Witwatersrand (**South Africa**) with a dissertation entitled *A microtomographic study of the StW 669 hominin molar from Milner Hall, Sterkfontein, South Africa* (B. Mataboge; 2018).

Undergraduate students

2021 Supervision of an Undergraduate student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *When did the hominins start running?* (T. Pathmaraja; 2021-2022).

Supervision of an Undergraduate student in **Biological Anthropology** from the University of Cambridge (**UK**) with a dissertation entitled *Brain evolution and language: a comparative 3D analysis of Wernicke's area in fossil hominins, extant humans and chimpanzees* (H. Hill; 2021-2022).

2020 Co-supervision of an Honour student in **Paleontology** from the University of the Witwatersrand (**South Africa**) with a dissertation entitled *Phylogenetic ancestral character reconstruction using maximum likelihood of hominin encephalization* (C. Pestana; 2020).

2012 Training of an Undergraduate student in Earth and Environment Studies from the University of Poitiers (**France**) in virtual imaging and bony endostructural analysis (M. Cazenave; 2012-2013).

TEACHING ACTIVITIES

2025-2026 **Co-coordinator** and lecturer of the course entitled *Biologie Virtuelle 3D* delivered by the doctoral school Rosalind Franklin of the University of Poitiers (**France**) (3 hours of lecture, 25 hours of practicals).

- Lectures and practicals** in *Méthodes en imagerie* as part of the course *Méthodes* of the *Paléontologie* track of the Master *Biodiversité, écologie et évolution* of the University of Poitiers (France) (1 hour of lecture, 5 hours of practicals).
Lecture entitled *Comment identifie-t-on les espèces en paléontologie ? L'exemple d'Australopithecus* as part of the course *Outils disciplinaires et ouverture professionnelle* of the Master *Biodiversité, écologie et évolution* of the University of Poitiers (France) (2 hours of lecture).
Lecture entitled *Climats et évolution humaine* as part of the course *Climats et évolution humaine* of the University of Poitiers (France) (2 hours of lecture).
- 2023-2024
Co-coordinator and lecturer of the course entitled *Biologie Virtuelle 3D* delivered by the doctoral school Rosalind Franklin of the University of Poitiers (France) (3 hours of lecture, 25 hours of practicals).
Lectures and practicals in *Méthodes en imagerie* as part of the course *Méthodes* of the *Paléontologie* track of the Master *Biodiversité, écologie et évolution* of the University of Poitiers (France) (1 hour of lecture, 5 hours of practicals).
Lecture entitled *Comment identifie-t-on les espèces en paléontologie ? L'exemple d'Australopithecus* as part of the course *Outils disciplinaires et ouverture professionnelle* of the Master *Biodiversité, écologie et évolution* of the University of Poitiers (France) (2 hours of lecture).
Lecture entitled *Climats et évolution humaine* as part of the course *Climats et évolution humaine* of the University of Poitiers (France) (2 hours of lecture).
Lecture entitled *A landmark-free, surface-based comparison approach* as part of the Graduate Program ARCHEO of the University of Bordeaux Bordeaux (France) (1 heure de cours magistral) (Bordeaux, 2/7/2024).
- 2020-2023
Coordinator of the course entitled *The Inner Ape: Hominin Origins and Evolution* of the *Biological Anthropology* track of the University of Cambridge (UK) (3rd year students, 8 hours of lectures, 8 hours of seminars and practicals).
Lectures in *Human Evolution* as part of the course *Humans in Biological Perspective* of the *Biological Anthropology* track of the University of Cambridge (UK) (1st year students, 8 hours).
Lectures in *Evolutionary History of Fossil Hominin Biology and Behaviour* as part of the course *Human Evolution* of the *Biological Anthropology* track of the University of Cambridge (UK) (2nd and 3rd year students, 8 hours of lectures, 6 hours of seminars, 9 hours of practicals).
Lectures in *Human Evolution* as part of the course *Evolution and Behaviour* of the *Zoology* track of the University of Cambridge (UK) (1st year students, 6 hours of lectures, 12 hours of practicals).
- 2017-2019
Lecture entitled *Applications of imaging techniques in paleoanthropology* given at the University of the Witwatersrand (Johannesburg, 19/4/2018).
Lecture entitled *Human brain evolution* given at the University of the Witwatersrand (Johannesburg, 5/10/2017, 10/8/2018 & 29/8/2019).
Lecture entitled *Introduction to epistemology and history of science* given at the University of the Witwatersrand (Johannesburg, 25/8/2017, 06/8/2018 & 19/8/2019).
Lecture entitled *Research in paleoanthropology: unravelling the history of our ancestors* given at the University of the Pretoria (Pretoria, 8/5/2017).

RESEARCH SCHOLARSHIPS AND AWARDS

Research scholarships

- 2026 PhD Joint Programme granted for the project entitled *Revisiting the southern African primate fossil record: a multidisciplinary approach to human evolution (ReVol)* by the CNRS and the University of the Witwatersrand (co-investigator, 2026-2029).
- 2025 Research scholarship granted for the project entitled *BrAIn Evolution: combining high-resolution imaging techniques and artificial intelligence to decode human brain origins (€18 000)* by the *Mission pour les initiatives transverses et interdisciplinaires* (principal investigator).
- 2024 Research scholarship granted for the project entitled *Looking for Human Origins in Southern Africa (€285 409)* by the *Agence Nationale de la Recherche* as part of the *Jeune Chercheur Jeune Chercheuse* programme (principal investigator, 2024-2029).

- Research scholarship granted for the project entitled *BrAIIn Evolution: combining high-resolution imaging techniques and artificial intelligence to decode human brain origins* (€20 000) by the *Mission pour les initiatives transverses et interdisciplinaires* (principal investigator).
- 2023 Conference grant for supporting the *14th Annual Meeting of the European Society for the Study of Human Evolution* (childcare and students) (\$13 300) granted by the Wenner-Gren Foundation for Anthropological Research (co-investigator as board member).
- 2021 Research scholarship granted for the project entitled *The Cenozoic primates from the Iberian Peninsula and their contribution to the reconstruction of the evolutionary history of the group* (€181 500) by the Spanish government (project member, 2021-2025).
Research scholarship granted for the project entitled *Paleobaboon dental morphology as a proxy for hominin evolution in open terrestrial environments* (€181 500) by the Spanish government (project member, 2021-2025).
Research scholarship granted for the project entitled *Tracking evolutionary changes in the human brain* (£2 500) by the *McDonald Institute for Archaeological Research* (principal investigator, 2021-2022).
- 2020 Research scholarship granted for the project entitled *Mapping the brain of our ancestors (EndoMap)* (€19 590 and R259 000) by the *Ministère de l'Europe et des Affaires étrangères* (MEAE), the *Ministère de l'Education nationale, de l'Enseignement supérieur et de la Recherche* (MESRI), and the *National Research Foundation of South Africa* in the frame of the PROTEA program with the collaboration of the *Centre de Recherche Cerveau & Cognition* (CerCo) in Toulouse (France) (principal investigator for the South African institution, 2021-2023).
Research scholarship granted for the project entitled *Where do we come from? Insights from early hominin paleobiology* (R277 582) by the *National Research Foundation of South Africa* (principal investigator, 2021-2023).
Research scholarship granted for the project entitled *GenoMorph - Reconstruire l'évolution des structures craniale-dentaire dentaire chez l'humain* (€302 672,80) by the *Agence Nationale de la Recherche* (project member).
Research scholarship granted for the project entitled *The fossil primate record of Namibia* (€1 000) by the *Institut Français d'Afrique du Sud* (principal investigator).
- 2019 Research scholarship granted for the project entitled *Morphological and structural variation in extant hominoid and papionin vertebrae: integrating outer and inner morphology* (R51 000) by the *Scientific Palaeontological Trust* (principal investigator).
Research scholarship granted for the project entitled *Bringing Fossils to Mind* (R50 000) by the *Centre of Excellence in Palaeosciences* for the organisation of a workshop (principal investigator).
Research scholarship granted for the project entitled *Synchrotron radiation and neutron microtomography-based exploration of the skull of StW 573* (R103 206) by the *National Research Foundation of South Africa* (co-principal investigator).
- 2018 Travel grant (€800) granted by the *European Society for the Study of Human Evolution* for contributing to the 8th annual meeting at Faro, Portugal.
Travel grant (R13 575) granted by the *Centre of Excellence in Palaeosciences* for contributing to the *Journées Annuelles de la Société d'Anthropologie de Paris*.
Research scholarship granted for the project entitled *Extracting locomotion-related signals from the outer and inner morphology of the extant hominoid postcranium* (R49 452) by the *National Research Foundation of South Africa* (principal investigator).
Research scholarship granted for the project entitled *Microtomographic-based investigation of unpublished Sterkfontein hominin fossils: implication for the taxonomy, paleobiomechanics and paleobiology of the Australopithecus taxon* (€700) by the *Institut Français d'Afrique du Sud* (principal investigator).
- 2014 Travel grant (€300) granted by the *European Society for the Study of Human Evolution* for contributing to the 4th annual meeting at Florence, Italy.

Postdoctoral scholarships

- 2020 Postdoctoral scholarship granted by the *Juan de la Cierva Incorporación* program at the *Institut Català de Paleontologia Miquel Crusafont* (Spain) (attributed and declined).

- 2019 Postdoctoral scholarship granted for the project entitled *Early hominin evolution in South Africa: combining cranial and post-cranial evidence* (R230 000) by the Centre of Excellence in Palaeosciences at the University of the Witwatersrand (South Africa).
Postdoctoral scholarship granted *University Research Council of the University of the Witwatersrand* (R120 000) at the University of the Witwatersrand (South Africa).
- 2018 Postdoctoral scholarship granted for the project entitled *Microtomographic-based investigation of the Sterkfontein StW 573 ("Little Foot") skeleton: implication for the taxonomy, paleobiomechanics and paleobiology of the Australopithecus taxon* (R275 000) by the Claude Leon Foundation at the University of the Witwatersrand (South Africa).
- 2017 Postdoctoral scholarship granted for the project entitled *Microtomographic-based investigation of the Sterkfontein StW 573 ("Little Foot") skeleton: implication for the taxonomy, paleobiomechanics and paleobiology of the Australopithecus taxon* (R275 000) by the Claude Leon Foundation at the University of the Witwatersrand (South Africa).
Postdoctoral scholarship granted for the project entitled *Microtomographic-based investigation of the Sterkfontein StW 573 ("Little Foot") skeleton: implication for the taxonomy, paleobiomechanics and paleobiology of the Australopithecus taxon* (R95 000) by the Centre of Excellence in Palaeosciences at the University of the Witwatersrand (South Africa).
- 2015 Postdoctoral scholarship granted for the project entitled *Morphoarchitectural variations in South African modern human endocasts* (€18 000) by the European program Erasmus Mundus AESOP+ at the University of Pretoria (South Africa).

Awards, ratings

- 2019 *Grade Y1 Promising young researchers* attributed by the National Research Foundation of South Africa (<https://www.nrf.ac.za/rating>).

ADMINISTRATIVE RESPONSIBILITIES

- 2025-present External examiner of the Honour in Paleontology degree of the University of the Witwatersrand (South Africa).
Contact person Europe & International CNRS Ecologie & Environnement for PALEVOPRIM.
- 2021-2022 *Director* of the MPhil program in Biological Anthropology offered by the Department of Archaeology of the University of Cambridge (UK).
Director of the *Palaeoanthropology Lab* in the Department of Archaeology at the University of Cambridge (UK) (<https://www.arch.cam.ac.uk/research/laboratories/palaeoanthropology-laboratory>).
Co-examiner for the Undergraduate and MPhil programs in Biological Anthropology at the University of Cambridge (UK).
Member of the *management committee* of the *Duckworth Collection* as deputy director at the University of Cambridge (UK).
- 2020-2021 *Representative* of the biological anthropological team at the teaching task force meeting of the Department of Archaeology of the University of Cambridge (UK).
- 2014-2015 *Representative* of the PhD students at the Laboratoire d'Anthropologie Moléculaire et Imagerie de Synthèse, UMR 5288 CNRS of the University of Toulouse Paul Sabatier (France).