Curriculum Vitae (updated in Onctober 2021)

Takehito Ikejiri (Ph.D.) 池尻武仁

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 - Google Scholar: : <https://scholar.google.com/citations?user=JdwzY6QAAAAJ&hl=en>

- ResearchGate:

[*https://www.researchgate.net/profile/Takehito\_Ikejiri?ev=hdr\_xprf&\_sg=MEwNKVw63iImIenEGcpNm1Apa\_FLfoSrAjWmQ6I\_VkJLlzBsZOKFS-VL4YNExsyC*](https://www.researchgate.net/profile/Takehito_Ikejiri?ev=hdr_xprf&_sg=MEwNKVw63iImIenEGcpNm1Apa_FLfoSrAjWmQ6I_VkJLlzBsZOKFS-VL4YNExsyC)

**Current positions**:

* *‘Adjunct Professor’*: at the Department of Geological Sciences, The University of Alabama, in Tuscaloosa, Alabama (as of January 2022)
* *‘Professional Staff’*: at the Department of Geological Sciences, The University of Alabama, in Tuscaloosa, Alabama (as of January 2013)
* *‘Researcher Associate’*:at the Alabama Museum of Natural History, The University of Alabama, in Tuscaloosa, Alabama (as of January 2011)

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**Citizenship**: Japan (a U.S. Green Card holder)

**Birthplace:** Tokai-shi, Aichi Prefecture, Japan

**Education (college/university level):**

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| Degree | Major | School | Locality | Date |
| Ph.D. | Geology (paleontology) | University of Michigan, Geological Sciences (now Earth & Environmental Sciences) | Ann Arbor, MI | Dec. 2010 |
| M.S. | Geology (paleontology) | Fort Hays State University, Geosciences | Hays, KS | May 2005 |
| B.S. | Geology | Fort Hays State University,Geosciences | Hays, KS | Dec. 2001 |
| A.A. | General Science | Trinidad State Junior College | Trinidad, CO | May 1999 |
| B.B. | Industrial Management | Gifu Keizai University  | Ogaki, Japan | March 1996 |

**Working experiences (full-time):**

- *Curator of dinosaurs***--** the Wyoming Dinosaur Center in Thermopolis (January 2005–May 2006)

- *Visiting Scholar* – at the School of Environmental Science and Engineering, South Science and Technology University, Shenzhen (南方科技大学環境科学院学in 深圳), China (in February–July 2018)

**Working experiences (part-time):**

**-** *Science Writer* (in Japanese) – for [The Page in YAHOO JAPAN](https://news.yahoo.co.jp/search/?fr=news_sw&p=%E6%B1%A0%E5%B0%BB%E6%AD%A6%E4%BB%81&ei=UTF-8&b=1), on news articles and essays on natural history (paleontology, evolution, earth science, anthropology, etc.) since 2016 [[LINK](https://news.yahoo.co.jp/search/?fr=news_sw&p=%E6%B1%A0%E5%B0%BB%E6%AD%A6%E4%BB%81&ei=UTF-8&b=1)].

- *Expedition Field Leader*/*Scientist* – hired by the Alabama Museum of Natural History, for the annual *Summer Expedition 41* in paleontology (2 weeks in June 2019)

- *Field Paleontologist* – hired by the Alabama Museum of Natural History, for the annual *Summer Expedition 37* in paleontology (2.5 weeks in late June 2015)

- *Leading Scientist* – hired by the Alabama Museum of Natural History, for the annual *Summer Expedition 35* in paleontology (2.5 weeks in late June 2013)

- *Collection Assistant* in herpetology **--**  the Museum of Zoology, The University of Michigan (April–September 2010)

- *Collection Assistant* in paleontology **–** the Museum of Paleontology, The University of Michigan (May–August 2008; May–December of 2009)

- *Collection Assistant* in paleontology **--** the Sternberg Museum of Natural History, Fort Hays State University, in Hays, Kansas (January 2002–May 2003)

- *Collection Assistant* in ornithology **--** the Biological Sciences, Fort Hays State University, in Hays, Kansas (in 2002)

**Research Interests in Key Topics:**

- Macroevolution (diversity) - Mass extinctions - Paleoecology

- Systematics - Evolutionary developmental biology (Evo-Devo)

**Research Interests in Taxonomic Scopes:**

 - **Vertebrate paleontology**:

1. Archosaurs (non-avian dinosaurs, basal Triassic taxa, fossil and recent crocodylians, etc.)

2. Mesozoic marine reptiles (mosasaurs and plesiosaurs

3. Cretaceous fish (cartilaginous and bony fish)

4. Mississippian fish (basal sharks and rays)

5. Pennsylvanian tetrapods (amphibians, basal reptiles, and synapsids)

6. Cenozoic mammals (the origin and early evolution of dogs)

- **Invertebrate paleontology**: Cretaceous mollusks

- **Paleobotany:**

1. Devonian eutracheophytes (early trees and shrubs)

 2. Pennsylvanian seed ferns and true ferns

Scholarships & Research Grants:

- American Chemical Society New Direction Grant (co-PI; with the primary PI, Yuehan Lu) (*submitted* in October 2018 and September 2019): A Multi-Proxy Assessments of Biogeochemical Co-Evolution of Early Forestation and Marine Deoxygenation during the Late Devonian.

- Turner Awards (2009 spring: $2500) from the Rackham Graduate School, the University of Michigan; (project): growth and evolution of sauropodomorph and basal sauropod dinosaurs in the Triassic to Early Jurassic of China and South Africa

- Turner Awards (2008 spring: $1100) from the Rackham Graduate School, the University of Michigan; (project): growth and evolution of sauropodomorph and basal sauropod dinosaurs in the Triassic to Early Jurassic of China and South Africa

- Turner Awards (2007 spring) from the Rackham Graduate School, the University of Michigan; project title: Morphology, sequence and timing of vertebral fusion in sauropodomorph dinosaurs and its implications for their growth and evolution”

- Jurassic Foundation (spring 2003: $500); project title: “A digitally rendered endocast and braincase anatomy of *Camarasaurus*”

- Rotary Club 5670 District Scholarship Awards: Incoming student (spring 2003: $2,000)

- Doris and Samuel P. Welles Fund at University of California Museum of Paleontology (Fall 2002: $850); project title: “Systematics and biostratigraphy of North American Mosasaurinae during the Late Cretaceous”

- Jurassic Foundation (spring 2002: $1,450); project title: “Anatomy and morphological variation in North American *Camarasaurus* (Sauropoda)”

- Kansas Geological Foundation (spring 2002: $750)

**Awards:**
- Ethnic Minority Academic Awards from Fort Hays State University (November 2002)

- Geology Brunton Award from Kooters Geology Tools and Brunton Company (2001)

- Outstanding Demonstration during Archaeology Week from Lounden-Henritze Archaeology

 Museum (April 1999)

- Outstanding Research 1998–1999 from Beta Beta Beta Biological Society in Trinidad

 State Junior College (1999)

**Teaching (university courses):**

***A. Main instructor***

**-** Global Climate Change (300-level) at the School of Environmental Science and Engineering, South Science and Technology University, Shenzhen (南方科技大学環境科学院学in 深圳), China (February–July 2018)

- Vertebrate Evolution & Paleontology (Geo 424: lecture and lab) at the Geological Sciences, The University of Alabama (Spring 2014; Spring 2016)

- Invertebrate Paleontology (Geo 355: lecture and lab) at the Geological Sciences, The University of Alabama (Spring 2013; Spring 2015)

- The Earth through Time (aka. Historical Geology) (GEO 102): at the Geological Sciences, The University of Alabama (Fall 2014, Summer 2015, Summer 2016; Summer 2017; Spring 2019)

- The Dynamic Earth (GEO 101: aka. Introduction to Geology): at the Geological Sciences, The University of Alabama (Fall 2017; Spring 2019)

- Fossils & Geology in Alabama (Geo 424-004) at the Geological Sciences, The University of Alabama (Fall 2015)

- Graduate student instructor at the Geological Sciences, The University of Michigan (from winter 2009 and winter 2010); GS 223/ENVIRON 223: Introduction to Oceanography Lab

***B. Teaching assistants***

- Graduate student instructor (grading and assistant for main instructors) at the Geological Sciences, The University of Michigan (from winter 2008-winter 2009: GS 108, fossil primate and human evolution; GS 103; Dinosaurs and other failures; GS 100 coral reef, GS 110 History of the oceans; GS 107, volcanoes; GS 106, Continental adrift)

- Teaching assistant for Introduction to Geology lab at Fort Hays State University (Fall 2002–Spring 2004)

- Teaching assistant for Physical Geology lab at Fort Hays State University (Fall 2003)

- Teaching assistant for a five-weeks Geology Field Camp in the Rocky Mts region by Fort Hays State University (May 26–June 23, 2002)

**Lecturing:**

- ‘What is Dinosaur?’ (2 hours) for ‘Evolution for Everyone: at The University of Alabama (Spring 2014)

**- ‘**Dinosaurs’ (1.5 hors lecture): at Arcadia Elementary School, Tuscaloosa, Alabama (in Spring 2015, 2016, and 2017)

- Fossil ID Day events (at the Alabama Museum of Natural History)

- Supervising fossil preparation lab (for undergraduate students) at Alabama Museum of Natural History (Spring 2012)

- Guides of various fossil sites and geology day trips (at the Wyoming Dinosaur Center)

- Museum tours (various topics of paleontology and natural history)

- Fossil ID Day events (at The University of Michigan Museum of Paleontology)

**Services for** **students (thesis/dissertation committee, etc.)** ([SUMMARY](https://tikejiri.people.ua.edu/students.html))

- Chelsea Comans (M.S. in Summer 2021; currently a Ph.D. student since 2021: Geological Sciences, University of Alabama); project: systematics, diversification, and paleoecology of Late Cretaceous sharks.

- Jian Chen (PhD student since Fall 2018: Geological Sciences, University of Alabama); possible project: Late Devonian stratigraphy and paleoenvironments in southern Appalachian Basin)

- Hunter ‘Chase’ Egli (undergraduate student since 2019: Geological Sciences, University of Alabama): project outline: The evolution and paleoecology of the Late cretaceous shark *Squalicorax* and *Pseudocorax*.

- Man Lu (M.S. in 2015 and Ph.D. in 2019: Geological Sciences, University of Alabama) (since summer 2014-); project title: ‘The evolution of land soils and vascular plants during the Late Devonian and paleoenvironmental interactions’.

- Cade Sundgaard (freshman: Biological Sciences) (Spring 2019): project title: paleoecology and food habits of the Cretaceous shark, *Ptychodus*.

- Siera Jann (undergraduate student: Geological Sciences, University of Alabama) (Summer 2015–Fall 2016); project outlines: (1) paleoenvironments of Upper Jurassic Morrison Formation of western Colorado; (2) taxonomy and paleoecology of Pennsylvanian ferns from the southern Appalachian basin.

**Ph.D. Dissertation:**

2010: “Morphology of the neurocentral junction during postnatal growth of *Alligator* (Reptilia, Crocodylia)”; dissertation adviser: Jeffrey A. Wilson; at the Dept. of Geological Sciences (now Dept. of Earth & Environmental Sciences) and the Museum of Paleontology, The University of Michigan).

 <https://deepblue.lib.umich.edu/handle/2027.42/78850>

**M.S. Thesis**:

2003: “Anatomy of *Camarasaurus lentus* (Dinosauria: Sauropoda) from the Morrison Formation (Late Jurassic), Thermopolis, central Wyoming, with determination and interpretation of ontogenetic, sexual dimorphic, and individual variation in the genus”; thesis adviser: Richard J. Zakrzewski; at the Geosciences, Fort Hays State University.

**Publications: (**<http://tikejiri.people.ua.edu/publications.html>**)** \**Corresponding author*.

***A. Papers in progress***

**Ikejiri, T.\***, Yuehan Lu, and Bo Zhang (Submitting to: *Science Advances*) Predator-prey relationship of Late Cretaceous marine vertebrates during the long-term mass extinction.

Lee, Scott, **T. Ikejiri**, Michael Brown, Alexa Carr, et al. (Submitting to *Science*). Trends in the thoracic neural canal geometry in extant tetrapods and non-avian dinosaurs.

Comans, C. M., **T. Ikejiri\***, and YueHan Lu (Submitting to: PLOSBiology). Extinction selectivity for Late Cretaceous sharks towards the end-Maastrichtian revealing impacts on marine paloenvironmental changes.

**T. Ikejiri\***, Man Lu, and YueHan Lu. (In prep). The oldest record of the Late Devonian land tree, *Archaeopteris,* from the southeastern United States revealing an explosive global dispersal of the first forestation.

**Ikejiri, T.**  (In prep) Impact of neurocentral fusion on vertebral structure highlighting developmental modularity of tetrapod vertebrae. To: *Evolution & Development*(?).

**Ikejiri, T. \*** and Masaya Iijima (In prep) The evolutionary process of basal archosaur synsacral vertebrae linking to the key innovation of the body size and posture evolution. To: *Evolution & Development*(?).

**Ikejiri, T. \*** and Bhart-Anjan Bhullar (In prep). Morphology of presacral vertebrae of *Euparkeria capensis* (Reptilia, Archosauriformes) from the Early Triassic of South Africa: the origin of delayed neurocentral fusion and complex neurocentral suture. To: *Journal of Vertebrate Paleontology*(?).

**Ikejiri, T. \*** and Jeffrey A. Wilson. (In prep). Ontogenetic and intracolumnar variation of neurocentral suture complexity in large and dwarf species of *Alligator* (Archosauria, Crocodylia).

***B. Peer-Reviewed Publications***

Lu, Man, **T. Ikejiri\***, YueHan Lu. 2021. A synthesis of the Devonian wildfire record: Implications for paleogeography, fossil flora, and paleoclimate. Palaeogeography, Palaoeclimatology, Palaeooceanography 571: 110321. (<https://doi.org/10.1016/j.palaeo.2021.110321>) [[**PDF: main text**](https://tikejiri.people.ua.edu/uploads/8/6/6/7/86670104/lum-ikejiri-luyh2021_p3_devonian-wildfire-synthesis.pdf)] [[**Supplementary materials**](https://tikejiri.people.ua.edu/uploads/8/6/6/7/86670104/lum-ikejiri-luyh2021_p3_devonian-wildfire-synthesis_supldata_corrections_2021-0415_.pdf)].

Lu, M., Lu, Y.H., **Ikejiri, T.**, Sun, D., Carroll, R., Blair, E.H., Algeo, J., and Sun, Y., 2021. Periodic oceanic euxinia and terrestrial fluxes linked to astronomical forcing during the Late Devonian Frasnian–Famennian mass extinction. Earth and Planetary Science Letters 562: 116839. <https://doi.org/10.1016/j.epsl.2021.116839>. [[**PDF**](https://tikejiri.people.ua.edu/uploads/8/6/6/7/86670104/lum-luy-sun-ikejiri2021_inpress_epsl_periodic_oceanic_euxinia-astronomical_forcing-late_devonian_extinction.pdf)].

**Ikejiri, T.**, Yuehan Lu, and Bo Zhang. 2020. Two-step extinctions of Late Cretaceous marine vertebrates in northern Gulf of Mexico revealing the magnitude of the Chicxulub Impact. *Scientific Reports* 10: 4169. <https://doi.org/10.1038/s41598-020-61089-w>.

Lu, Man, Y. Lu, **T. Ikejiri**, N. Hogancamp, Y. Sun, Q. Wu, R. Carroll, I. Cemen, and J. Pashin. 2019. Geochemical Evidence of First Forestation in the Southernmost Euramerica from Upper Devonian (Famennian) Black Shales. *Scientific Reports* 9: 7581. <https://doi.org/10.1038/s41598-019-43993-y>.

**Ikejiri, T.** 2015. Modes of postnatal ontogenetic allometry in crocodylian vertebrae. *Biological Journal of the Linnean Society* 216: 649–670. <http://onlinelibrary.wiley.com/doi/10.1111/bij.12607/abstract> [[**PDF**](https://tikejiri.people.ua.edu/uploads/8/6/6/7/86670104/ikejiri2015bjls_allometric-shifts_text_sinfo.pdf)].

**Ikejiri, T.**, and M. J. Everhart. 2015. Notes on the Authorship and Holotype of *Ptychodus mortoni* (Chondrichthyes, Ptychodontidae). *New Mexico Museum of Nature and Science Bulletin* 67 (‘Fossil Record 4’): 69–73 [[**PDF**](https://tikejiri.people.ua.edu/uploads/8/6/6/7/86670104/ikejiri_everhart2015_ptychodus.pdf)].

**Ikejiri, T.**,and S. G. Lucas. 2015. [Osteology and taxonomy of *Mosasaurus conodon* Cope 1881 from the Late Cretaceous of North America](https://www.cambridge.org/core/journals/netherlands-journal-of-geosciences/article/osteology-and-taxonomy-of-mosasaurus-conodon-cope-1881-from-the-late-cretaceous-of-north-america/6E44A7F5FA89FFB8A5FD21174A6E376F). Netherlands Journal of Geosciences - *Geologie en Mijnbouw*, 94: 39-54 [[**PDF**](https://tikejiri.people.ua.edu/uploads/8/6/6/7/86670104/lum-luy-sun-ikejiri2021_inpress_epsl_periodic_oceanic_euxinia-astronomical_forcing-late_devonian_extinction.pdf)].

**Ikejiri, T.**, J. Ebersole, H. L. Blewitt, and S. Ebersole. 2013. An overview of Late Cretaceous vertebrates from Alabama. *Alabama Museum of Natural History Bulletin* 31(1):46–71. [[**PDF**](https://tikejiri.people.ua.edu/uploads/8/6/6/7/86670104/ikejiri_2013_al-cret-verts_withnotes.pdf)].

**Ikejiri, T.** 2012. Histology-based morphology of the neurocentral synchondrosis in *Alligator mississippiensis* (Archosauria, Crocodylia). *Anatomical Record* 295:18–31 [[**PDF**](https://tikejiri.people.ua.edu/uploads/8/6/6/7/86670104/ikejiri2012_histology.pdf)]. <http://onlinelibrary.wiley.com/doi/10.1002/ar.21495/abstract>

Wilson, Jeffrey A., Michael D. D’Emic, **Takehito Ikejiri**, Emile M. Moacdieh, and John A. Whitlock. 2011. A nomenclature for vertebral fossae in sauropods and other saurischian dinosaurs. *PLOS ONE Biology* 6(2):e17114. [http://www.plosone.org/article/info:doi/10.1371/journal.pone.0017114](http://www.plosone.org/article/info%3Adoi/10.1371/journal.pone.0017114)

Balanoff, A., G. S. Bever, and **T. Ikejiri.** 2010. Endocast morphology of *Apatosaurus* (Dinosauria: Sauropoda) based on computed tomography of a previously undescribed braincase with comments on variation and evolution in sauropod neuroanatomy. *American Museum Novitates* 3677:1–29. <http://digimorph.org/specimens/Apatosaurus_sp/> <http://www.bioone.org/doi/abs/10.1206/591.1>

**Ikejiri, T.** 2008.Slender and robust morphs of *Camarasaurus* (Dinosauria, Sauropoda)

from the Morrison Formation (Late Jurassic) of the Rocky Mountain Region and Its Implications for possible sexual dimorphism. *In* G. H. Farley and J. R. Choate (eds.), *Unlocking the Unknown: Papers honoring Dr. Richard J. Zakrzewski. Fort Hays Special Studies number 2*. Fort Hays State University, Hays, Kansas:31–44.

Schwarz, D., **T. Ikejiri**, B. Breithaup, N. Klein, and P.M. Sander. 2007. A nearly complete skeleton of an early juvenile diplodocid (Dinosauria: Sauropoda) from the Lower Morrison Formation (Late Jurassic) of north central Wyoming and its implications for early ontogeny and pneumaticity in sauropods. *Historical Biology* 19:225–253. <http://www.tandfonline.com/doi/abs/10.1080/08912960601118651#preview>

**Ikejiri, T.**, P. Watkins, and D. Gray. 2006. Stratigraphy, sedimentology, and taphonomy of a sauropod quarry from the upper Morrison Formation of Thermopolis, central Wyoming. *New Mexico Museum of Nature and Science Bulletin 36 (Paleontology and Geology of the Upper Jurassic Morrison Formation*); J.R. Foster and S. G. Lucas (eds.):39–46.

**Ikejiri, T**. 2005. Distribution and biochronology of *Camarasaurus* (Dinosauria, Sauropoda) from the Morrison Formation of the Rocky Mountain region. *In* Lucas, S.G., K. Zeigler, V. Lueth, and D.E. Owen (eds.), *56th Field Conference Guidebook, Geology of the Chama Basin*. New Mexico Geological Society, Albuquerque:389–394. <http://nmgs.nmt.edu/publications/guidebooks/downloads/56/56_p0367_p0379.pdf>

Lucas, S.G., **T. Ikejiri**, H. Maish, T. Joyce, and G.L. Gianniny. 2005. New record of the mosasaur *Prognathodon* from the Upper Cretaceous of Colorado and the distribution of the genus in North America. *In* S.G. Lucas, K. Zeigler, V. Lueth, and D.E. Owen (eds.), *56th Field Conference Guidebook, Geology of the Chama Basin*. New Mexico Geological Society, Albuquerque:367–379.

**Ikejiri, T.**, V. Tidwell, and D.L. Trexler. 2005. [New adult specimens of *Camarasaurus lentus* highlight ontogenetic variation within the species](https://doc.rero.ch/record/14710). *In* V. Tidwell, and K. Carpenter (eds.), T*hunder-Lizards: the Sauropodomorph Dinosaurs*. Indiana University Press, Bloomington:154–179.

***C. Non-refereed Articles***

**Ikejiri, T.** 2015. The origin and early evolution of sauropods (in Japanese). *In*: the Official Guidebook of Dinosaur Exhibition in Makuhari, Japan–Summer 2015.

**Ikejiri, T.** 2009. Evolution of titanosaur sauropods, basal sauropods, etc. (in Japanese). *In*: The Official Guidebook of Dinosaur Exhibition in Makuhari, Japan–Summer 2009.

**Ikejiri, T.** 2008. *Brachiosaurus* and *Jobaria* (in Japanese). *In*: K. Kobayashi and R. Hirayama (eds), Kyo-ryu no fukugen (Reconstruction of Dinosaurs) (in Japanese). Gakken, Tokyo.

**Ikejiri, T.** 2006. A mystery of gigantic sauropods (in Japanese). National Geographic (Japanese edition) in August:94–101. \*Summary: <http://www.nikkeibp.co.jp/style/secondstage/tanoshimu/nng_060804.html>

**Ikejiri, T.** 2006. Sexual dimorphism of sauropods: How can we distinguish male and female *Camarasaurus*? (written in Japanese). A guidebook for the Dinosaur Exhibition in Makuhari, Japan in the summer of 2006.

**Ikejiri, T.** 2006. Growth of gigantic sauropods (written in Japanese). *In* Y. Kobayashi (ed.), New Studies of Dinosaur World. NHK (Japan Broadcast Company) Publishing, Tokyo:36–39.

***D. Presented Papers (published abstracts)***

**Ikejiri, T.** and YueHan Lu. 2021. **The Late Cretaceous marine vertebrate record in Alabama reveals a long-term extinction process prior to the K-Pg boundary in northern Gulf of Mexico.** *In*: “Flippers and Fins: Marine Reptiles” At Tate Geological Museum, Casper College in Wyoming (June 4-6, 2021). <https://www.caspercollege.edu/tate-geological-museum/events/conference/>

Lu, YueHan, **Ikejiri, T.**, and Man Lu. 2021. A synthesis of the Devonian wildfire record: Implications for paleogeography, fossil flora, and paleoclimate. *In*: Geological Society of America Southeastern Section in April 2021. Abstract #: 362332.

Lu, Man, YueHan Lu, and **Ikejiri, T.**, 2021. Increased wildfires caused by marine organic carbon burial during the Late Devonian Frasnian–Famennian mass extinction. *In*: Geological Society of America Southeastern Section in April 2021. Abstract #: 362214.

Chen, Jian, YueHan Lu, and **T. Ikejiri**. 2021. Microbial community response to marine environmental volatility through the Late Devonian mass extinction events. *In*: Southeastern Section Geological Society of America Annual Meeting (Abstract #362215).

Lu, Man, YueHan Lu, **T. Ikejiri**, and R. Carroll, R. (2021, April). Enhanced paleo-wildfire occurrences caused by marine organic carbon burial during the Late Devonian Frasnian-Famennian mass extinction. *In*: Southeastern Section Geological Society of America Annual Meeting (Abstract #362214).

Comans, C. M., **T. Ikejiri**, and YueHan Lu. 2020. Diet selectivity for Late Cretaceous Hybodontiformes and Lamniformes shark extinction in northern Gulf of Mexico. *In*: Geological Society of America Annual Meeting ([D17. Paleontology IV](https://gsa.confex.com/gsa/2020AM/webprogram/Session50990.html)). <https://gsa.confex.com/gsa/2020AM/webprogram/Paper355124.html>.

Chen, Jian, YueHan Lu, **T. Ikejiri**, Yongge Sun, N. Hogancamp, and M. M McGlue. 2020. [Changes of Microbial Communities in Response to Marine Environmental Volatility through the Late Devonian Mass Extinctions](https://agu.confex.com/agu/fm20/prelim.cgi/Paper/666658). *In*: American Geological Union Fall Meeting (PP019-0006).

Man Lu, YueHan Lu, R. Carroll, Y. Sun, and **T. Ikejiri**. 2020. Paleofire records reveal possible mechanisms of the termination of the Late Devonian Upper Kellwasser marine anoxia. *In*: Goldschmidt Annual Meeting. <https://goldschmidtabstracts.info/abstracts/abstractView?doi=10.46427/gold2020.1643>

Lu, M., Y.Lu, **T. Ikejiri**, D. Sun, and R. Carroll. 2018. Revisiting the early land forest hypothesis for a Late Devonian mass extinction process in the Southern Appalachian Basin using an geochemical characterization of the Chattanooga Shale (Frasnian to Famennian). Goldschmidt Conference Abstracts (2018, Boston, MA), p. 1597.

Lu, M., Y. Lu, **T. Ikejiri**, I. Çemen, J. Pashin, and N. Hogancamp. 2016. Can biomarkers in Chattanooga Shale (Late Devonian) show evidence of the very early land forest in the southern Appalachian basin? Goldschmidt 2016, Yokohama, Japan, 26 June-01 July 2016. Goldschmidt Conference Abstracts, p. 1899.

Lu, M., Y. Lu, **T. Ikejiri**, and I. Çemen. 2015. Reconstructing depositional environments of the Devonian Chattanooga Shale in northeastern Alabama using sedimentological and geochemical analyses. 2015 2nd Annual Southeastern Biogeochemistry Symposium, Atlanta, GA, USA, 28-29 March 2015. Abstract book, p. 28.

Lu, M., Y. Lu, **T. Ikejiri**, and I. Çemen. 2015. Sedimentological and Geochemical Characterizations Reveal a Major Shift in Depositional Environments of the Devonian Chattanooga Shale in northeastern Alabama. 2015 Southeastern Section-64th Annual Meeting, Chattanooga, TN, USA, 19-20 March 2015. GSA Abstract with Programs, Vol. 47, No. 2, p. 84.

Cemen, I., Hills, D.J., Lu, Y., J. Clark, M. Lu, and **T. Ikejiri**. 2015. [Determining facies and elements of productivity in the Devonian Chattanooga Shale in Alabama and Tennessee](https://www.researchgate.net/profile/Ibrahim_Cemen/publication/275272557_DETERMINING_FACIES_AND_ELEMENTS_OF_PRODUCTIVITY_IN_GAS_SHALE_PLAYS_AN_EXAMPLE_FROM_THE_DEVONIAN_CHATTANOOGA_SHALE_IN_ALABAMA_AND_TENNESSEE/links/55366e200cf268fd00183f81.pdf). Geological Society of America SE Regional Meeting 47(2) ABSTRACT.

Lu, M., Y. Lu, **T. Ikejiri**, and I. Çemen. 2015. Sedimentological and geochemical characterization reveal a major shift in depositional environments of the Devonian Chattanooga Shale in northeastern Alabama. Geological Society of America SE Regional Meeting 47(2) ABSTRACT.

Lu, Y., P. Shang, M. Lu, M**.**, and **T. Ikejiri**. 2015. Managing dissolved organic matter in impacted streams and rivers: challenges and future research directions. Geological Society of America SE Regional Meeting 47(2) ABSTRACT.

Lu, M., Lu, Y., T. **T. Ikejiri**, and I. Çemen (2014) Carbon Sources and Depositional Environments of the Devonian Chattanooga Shale in northeastern Alabama. 2014 American Geophysical Union Fall Meeting, San Francisco, CA, USA, 15-19 December 2014. Abstract B21E-0097.

**Ikejiri, T.** 2013.Biostratigraphic distributions of Alabama mosasaurs highlighting patterns and processes of the Cretaceous-Paleogene extinction. *At* May 2013, The 4th Mosasaur Meeting in Dallas, Texas.

Wilson, J. A., M. D. D’Emic, **T. Ikejiri**, E. M. Moacdieh, and J. A. Whitlock. 2010. A nomenclature for vertebral fossae in sauropods and other saurischian dinosaurs. Journal of Vertebrate Paleontology 30, Supplement to no. 3.

**Ikejiri, T.** 2007. Ontogenetic and intracolumnar variation in the complexity of the neurocentral suture in dwarf and large crocodilian species. Journal of Vertebrate Paleontology 27, Supplement to no. 3:93–94A.

**Ikejiri, T.** 2005. Sequence of fusion in vertebral elements as a possible ontogenetic indicator in

crocodilians. Joint Meeting of the American Societies of Ichthyologists and

Herpetologists in Tampa, Florida during July 6–11 2005: p. 240.

**Ikejiri, T.** 2005. Sexual dimorphism of *Camarasaurus* (Dinosauria, Sauropoda) from the Jurassic Morrison Formation of North America. Second Latin American Congresses of Vertebrate Paleontology in Rio de Janeiro during July 10-12 2005:p. 137–138.

**Ikejiri, T.**, D. Schwarz, and B.H. Breithaupt. 2005. A nearly complete skeleton of a baby

sauropod from the lower Morrison Formation of the Howe Ranch Wyoming: “Little steps” into diplodocid ontogeny and taxonomy”. Journal of Vertebrate Paleontology 25, Supplement to no. 3:73A.

Balanoff, A., **T. Ikejiri**, and G.S. Bever. 2005. The endocranial morphology of diplodocid sauropods. Journal of Vertebrate Paleontology 25, Supplement to no. 3:33–34A.

Watkins, P.S., D.J. Gray, **T. Ikejiri**, and B. Pohl. 2005. Warm Springs Ranch dinosaur quarries from the upper Morrison Formation of north central Wyoming. Journal of Vertebrate Paleontology 25, Supplement to no. 3:128A.

**Ikejiri, T.** 2004. Relative growth and timing of ontogenetic changes in *Camarasaurus* (Dinosauria, Sauropoda). Journal of Vertebrate Paleontology, v. 24, Supplement to no. 3: 74A.

**Ikejiri, T.**, and S.G. Lucas. 2004. A new look at the tooth morphology and distribution of Mosasaurus conodon in North America. *At* May 8–12 2004, 1st Mosasaur Meeting in Maastricht, Netherlands.

**Ikejiri, T.** 2003. Scale morphology in the monitor lizard (Squamata: *Varanus albigularis*) using scanning electron microscopy. *In* April 11-12 2003, 135th Annual Meeting of the Kansas Academy of Science Meeting, Pittsburg 122:31.

**Ikejiri, T.** 2003. Sequence of closure of neurocentral sutures in *Camarasaurus* (Sauropoda) and implications for phylogeny in Reptilia. Journal of Vertebrate Paleontology 23,

Supplement to no. 3:65A.

**Ikejiri, T.** 2002. A new spcies of *Mosasaurus* (Reptilia, Squamata) from South Dakota. *In* April

 12-13, 2002, 134th Annual Meeting Kansas Academy of Science 121:30.

**Ikejiri, T.** 2002. Morphology of a new species of *Mosasaurus* (Reptilia: Squamata) from South Dakota. Journal of Vertebrate Paleontology 22, Supplement to no. 3:69A.

**Ikejiri, T.** 2002. Biostratigraphic and geographic distribution of *Camarasaurus* (Dinosauria, Sauropoda) from the Morrison Formation. Geological Society of America, Abstract with programs 34(6):425.

**Ikejiri, T.**, and H.R. Richards III. 2001. Reexamination of *Camarasaurus supremus* at the American Museum of Natural History. *In* April 6–7 2001, 133rd Annual Meeting Kansas Academy of Science l20:37.

**Ikejiri, T.** and G.S. Bever. 2000. Sexual dimorphism in *Camarasaurus.* *In* March 31–April 1 2000, 132nd Annual Meeting, Kansas Academy of Science l19:21.

**Ikejiri, T.** and S.G. Lucas. 1999. The mosasaur *Tylosaurus* in the Pierre Shale of southeastern Colorado. Journal of Vertebrate Paleontology 19, Supplement to no.3:54A.

Martz, W.J., J. P. VonLoh, and **T. Ikejiri**. 1999. The biostratigraphic and taxonomic distribution of Colorado mosasaurs. Journal of Vertebrate Paleontology 19, Supplement to no. 3:62A.

***E. Presentations (Unpublished Abstracts):***

**Ikejiri, T.** 2005. Ontogenetic changes of *Camarasaurus* and its implications for sauropod growth. Paleobiology of Sauropods, in Aathal, Switzerland during April 18–19 2005.

**Ikejiri, T.** 2004. Tooth morphology and species determination in North American *Mosasaurus*. *At* May 8–12 2004, 1st Mosasaur Meeting in Maastricht, Netherlands.

Lucas, S.G. and **T. Ikejiri.** 2004. New record of the mosasaur *Prognathodon* from the Upper Cretaceous of Colorado and the distribution of the genus in North America. *At* May 8–12 2004, 1st Mosasaur Meeting in Maastricht, Netherlands.

**Ikejiri, T.** 2005. Sexual dimorphism of *Camarasaurus* (Sauropoda) from the Jurassic Morrison Formation of North America. Dinosaur Park Symposium, at Royal Tyrell Museum, during September 24–25, 2005.

**Conference session (panel):**

Southeastern Section Geological Society of America Annual Meeting. 2021 (April). ‘T18. Interactions of Environments and Life during the Phanerozoic’.

**Editorial Experience:**

2013 (with June Ebersole): two paleontology volumes of the “*Alabama Museum of Natural History Bulletin* *35*: Vols. 1 & 2 (as one of the two chief editors; including 15 original research articles).

**Review Experiences (scientific journals):**

 Journal of Vertebrate Paleontology; Palaeontology; The Anatomical Record; Journal of Asian Earth Sciences; Bulletin of New Mexico Museum of Natures and Sciences; Bulletin of Alabama Museum of Natural History; Netherlands Journal of Geosciences, Transactions of the Kansas Academy of Sciences, etc.

**Review Experiences (textbooks):**

- The Evolving Earth: A Trip through Time (2014) by Donald Prothero: Oxford University Press

- Earth’s Evolving System: The History of Planet Eaeth (2014) by Ronald Martin: Jones and Bartlett Learning

**Media Activities:**

- 2017 January: Hosting a crew of Nihon Hosou Kyokai (Japan Broadcasting Company) for primarily investigation on fossil specimens at Alabama Museum of Natural History.

- 2010 August 17th. *In*: “The Dinosaur Hunter. The mystery of the gigantic sauropod, *Camarasaurus*” (in Japanese). By the Tokyo TV. A special dinosaur program, including some interview scenes and technical comments.

- 2010 July 11th. *In*: “Good Chikyu-bin” (in Japanese). By the Yomiuri TV. Featured in a weekly 30 minutes’ documentary TV program – about my Ph.D. projects at The University of Michigan.

- 2010 July. *In*: “Dinosaur extinction and the diversity of mammals” (in Japanese). By the Japan Broadcast Company (NHK). Some technical comments in two days special science programs.

- 2006 July. *In*: “Dinosaurs vs. Mammals. The battle in 150 million years” (in Japanese). By the Japan Broadcast Company (NHK). Some technical comments in two days special science programs.

**Invited Talks:**

- October 2021.At the Alabama Museum of Natural History, The University of Alabama (National Fossil Day event); “Diversity and mass extinctions of marine vertebrates in Cretaceous Alabama tides: new insights toward the end of the dibosaur era”.

- October 2021.At the College of Community Health Sciences, The University of Alabama (William W. Winternitz Conference series); “A synthesis of the Devonian wildfire record: Implications for paleogeography, fossil flora, and paleoclimate”.

- June 2021. At Tate Geological Museum, Casper College in Wyoming; “Flippers and Fins: Marine Reptiles” (June 4-6, 2021). <https://www.caspercollege.edu/tate-geological-museum/events/conference/>

- June 2015. Birmingham Paleontological Society.

- May 2012. Alabama Paleontological Society.

- July 2011. Alabama Paleontological Society.

- May 2011. Birmingham Paleontological Society.

**Web News and Essay Articles (in Japanese):**「[北米アラバマより“生物40億年のメッセージ”](https://news.yahoo.co.jp/search/?fr=news_sw&p=%E6%B1%A0%E5%B0%BB%E6%AD%A6%E4%BB%81&ei=UTF-8&b=1) 」(From Alabama, U.S. – messages from 4 billion-years life history) *In*: YAHOO JAPAN (since September 2016)

 \*A complete list: ([link](https://news.yahoo.co.jp/search/?fr=news_sw&p=%E6%B1%A0%E5%B0%BB%E6%AD%A6%E4%BB%81&ei=UTF-8&b=1)) <https://news.yahoo.co.jp/search/?fr=news_sw&p=%E6%B1%A0%E5%B0%BB%E6%AD%A6%E4%BB%81&ei=UTF-8&b=1>

 \*\*Some selected titles (50 essay news articles uploaded by October 30, 2019):

“**The cause of** **the End-Permian Mass Extinction**[**ペルム紀末の生物大虐殺の犯人は？　過去の地球温暖化から現在の環境問題を考える**](https://ord.yahoo.co.jp/o/news/RV%3D1/RU%3DaHR0cHM6Ly9oZWFkbGluZXMueWFob28uY28uanAvaGw_YT0yMDE5MDEwNS0wMDAxMDAwMC13b3JkbGVhZi1zY3RjaA--;_ylt=A2RimV.TeNtcTg4ATxwPk.d7)”(01/05/19)

“**The origin of turtles**” [**謎に満ちた「カメの起源」（上） 中国での発見による最新研究**](https://headlines.yahoo.co.jp/hl?a=20181010-00010001-wordleaf-sctch)*(10/10/18)*

“Diet of the oldest elephant” [**短い鼻、太古の奇妙なゾウ・ゴンフォテリウムは何食べた？ゾウ進化史新研究**](https://headlines.yahoo.co.jp/hl?a=20180604-00000008-wordleaf-sctch) (06/05/16)

“**The dinosaur origin revisited**” [**2018年「オリジン・オブ・恐竜」(上):再考、三畳紀初期恐竜グループの定義**](https://headlines.yahoo.co.jp/hl?a=20180511-00000007-wordleaf-sctch)(05/12/18)

**“The origin of Homo sapiens**” [**ホモ・サピエンス起源の謎**](https://headlines.yahoo.co.jp/hl?a=20180220-00000003-wordleaf-sctch)(02/12/18)

**“200 million years old butterfly fossil from Germany**” [**2億年前、蝶は地上を舞っていた?**](https://ord.yahoo.co.jp/o/news/RV%3D1/RU%3DaHR0cHM6Ly9oZWFkbGluZXMueWFob28uY28uanAvaGw_YT0yMDE4MDExOS0wMDAwMDAwOC13b3JkbGVhZi1zY3RjaA--;_ylt=A2RimVOze9tcESIAxh0Pk.d7) (01/20/18)

**“The Devonian oldest tree**” [**「最古の木」の化石探求（上）**](https://headlines.yahoo.co.jp/hl?a=20171208-00000002-wordleaf-sctch) (12/09/17)

**“When and where did** **house cats come from?**” [**1万年前イエネコ家畜化起源の謎(上)**](https://headlines.yahoo.co.jp/hl?a=20170706-00000007-wordleaf-sctch) (07/06/17)

**“The myth of the Ediacaran oldest animal record”** [**最古動物の“静”のイメージ変える最新研究**](https://headlines.yahoo.co.jp/hl?a=20170529-00000005-wordleaf-sctch)(05/30/17)

**“The complete mummified dinosaur discovered!”** [**完全な姿とどめたミイラ化恐竜化石を発見 ── カナダ・アルバータ州**](https://headlines.yahoo.co.jp/hl?a=20170518-00000030-wordleaf-sctch) (05/18/17)

**“Where did oxygen on Earth come from?**” [**酸素はどこから生じたのか？**](https://headlines.yahoo.co.jp/hl?a=20170228-00000001-wordleaf-sctch) (03/01/17)

**“Dinosaur feather trapped in an amber**” [**白亜紀琥珀の中に閉じこめられた恐竜の羽の発見**](https://headlines.yahoo.co.jp/hl?a=20161221-00000005-wordleaf-sctch) (12/23/16)

**“Reconstructing dinosaur body color”** [**恐竜の体の色の復元は可能か(下)**](https://headlines.yahoo.co.jp/hl?a=20161101-00000004-wordleaf-sctch) (11/03/16)

**“The new fossil record of the oldest life”** [**37億年前－世界最古記録の生物化石「ストロマトライト」の発見(上)**](https://headlines.yahoo.co.jp/hl?a=20161013-00000009-wordleaf-sctch) (10/20/16)

**Museum experiences (volunteers in paleontology):**

- Alabama Museum of Natural History, University of Alabama: collection conservation, volunteer coordinate, fossil preparation at the fossil lab, fossil trips, museum fossil events, etc. (since January 2011)

- Museum of Paleontology University of Michigan: various fossil events for public (September 2006 to August 2010)

- Sternberg Museum of Natural History, Fort Hays State University: fossil preparation (2001 to 2003)

- Earth Science Museum, Brigham Young University: fossil preparation and excavation (summers of 1998, 1999, and 2000)

- Museum of Western Colorado: fossil preparation and excavation (summers of 1999 and 2000, and winter of 1999)

- Louden-Henritze Archaeology Museum, Trinidad Sate Junior College, Colorado: fossil preparation (1998-1999)

Museum Research:

- Fossil vertebrate collections at various institutions in U.S.A., Canada, Brazil, South Africa, UK, Germany, Switzerland, Netherland, Belgium, France, and Japan.

- Human skeletons (Todd al collection at Cleveland Museum of Natural History

- Various osteological collections (extant birds, reptiles, and mammals) at Smithsonian, American Museum of Natural History, Museum of Zoology University of Michigan, Field Museum of Natural History, University of Kansas natural History Museum, University of Florida Natural History Museum, Yale Peabody Museum

Field Experience (Fossil Excavation):

- Devonian black shale units for plant fossils and paleoenvironments in southern Oklahoma (since 2021)

- Upper Cretaceous marine rocks in Alabama (for various vertebrates and invertebrates), with Alabama Museum of Natural History (since 2012)

- Cretaceous–Paleogene boundary sites in western Alabama and eastern Mississippi (since 2013)

- Upper Jurassic Morrison Formation: at the Dinosaur National Monument in eastern Utah; Fruita Paleontological Area in western Colorado (for small vertebrates like lizards and amphibians); with colleagues at American Museum of Natural History, John Hopkins University, and Harvard University (summers of 2012, 2014, 2015, and 2018)

- Devonian marine strata in Alabama, Tennessee, and Kentucky (for plants fossils and black shales) (since 2014)

- Mississippian marine strata in Alabama (for basal sharks and various marine invertebrates) (since 2013)

- Pennsylvanian marine strata in Alabama (for basal reptile and amphibian trace fossils and land plants) (since 2013)

- Upper Jurassic Morrison Formation for dinosaurs: at the Dry Mesa Dinosaur Quarry in western Colorado; the Warm Springs Ranch quarries in Bighorn County, central Wyoming; the Comanche National Grassland in eastern Colorado; the Mygatt-Moore Quarry in western Colorado; the Little Cedar Mountain in central Utah (primarily dinosaur remains), with Brigham Young University, Wyoming Dinosaur Center, etc. (in 2008–2006)

- Upper Cretaceous Niobrara Formation in central and western Kansas (fish, marine reptiles, invertebrates, etc.) (in 1998–2004)

- Upper Cretaceous Pierre Shale Formation in southern Colorado (marine reptiles, ammonites) (in 1998–2004)

- Cenozoic Ogallala Group in western and central Kansas (mammals, turtles, etc.) (in 1998–2004)

- Mississippian and Carboniferous marine deposits in Michigan, Ohio and Indiana (for various invertebrates)