

## Vita: TETSUTO MIYASHITA

**Present Address** Chicago Fellow  
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### Degrees

<b>Title</b>	<b>Program</b>	<b>Year</b>	<b>Institution</b>	<b>Advisors</b>
Ph.D.*	Biological Sciences	2018	University of Alberta	A.R. Palmer
M.Sc. <sup>§</sup>	Biological Sciences	2012	University of Alberta	A.R. Palmer, P.J. Currie
B.Sc., Hon. <sup>†</sup>	Palaeontology	2009	University of Alberta	P.J. Currie, A.M. Murray

\* T.W.M. Cameron Outstanding PhD Thesis Award;  
§WAGS/UMI Distinguished Thesis Award; †First Class Honors

### Professional Training

<b>Tenure</b>	<b>Institution</b>	<b>Supervisors</b>	<b>Position</b>
2018–	<b>University of Chicago</b>	M.I. Coates, V. Prince C.J. Lowe (Stanford)	Chicago Fellow
2018	<b>University of Alberta</b>	P.J. Currie	Postdoctoral Fellow
2010–2017	<b>University of Alberta</b>	A.R. Palmer, P.J. Currie M.I. Coates (U. Chicago), B.K. Hall (Dalhousie), W.T. Allison	M.Sc., Ph.D.
2015–2017	<b>California Institute of Technology</b>	M.E. Bronner	Visiting associate
2014–2015	<b>Muséum national d’Histoire naturelle (Paris)</b>	P. Janvier	Visiting scholar
2013	<b>Marine Biological Laboratory</b>	R.R. Behringer A. Sanchez-Alvarado	Summer student
2010	<b>Friday Harbor Laboratories</b>	R.R. Strathmann D. Grünbaum	Summer student
2008–2009	<b>Bamfield Marine Sciences Centre</b>	A.R. Palmer	Research assistant
2005–2009	<b>University of Alberta</b>	P.J. Currie, S.P. Leys	Research assistant
2003–2005	<b>Royal Tyrrell Museum of Palaeontology</b>	P.J. Currie, D.B. Brinkman, D.A. Eberth	Research assistant

**Major Awards and Honors**

<b>Title</b>	<b>Granting agency</b>	<b>Value (total)</b>	<b>Tenure</b>
<b><i>Major postdoctoral award</i></b>			
Chicago Fellowship	University of Chicago	124,000 US\$	2018–2020
<b><i>Major scholarships</i></b>			
Queen Elizabeth II Scholarship	University of Alberta	7,500 C\$	2017
I.W. Killam Memorial Scholarship	Killam Trust	70,000 C\$	2015–2017
Vanier Canada Grad. Scholarship	NSERC	150,000 C\$	2012–2015
President's Prize for Distinction	University of Alberta	20,000 C\$	2012–2014
Alberta Ingenuity Scholarship	Alberta Innovates	47,500 C\$	2010–2011
<b><i>Major research awards (visiting fellowships)</i></b>			
COB Travelling Fellowship	The Company of Biologists	2,500 B£	2016
CGS Michael Smith Foreign Study Suppl.	NSERC	6,000 C\$	2015
Globalink Research Award	Mitacs Foundation	5,000 C\$	2014–2015
<b><i>Presentation &amp; service awards</i></b>			
T.W.M. Cameron Award (Best PhD Thesis)	Canadian Soc. Zoologists	1,000 C\$	2019
A.S. Romer Prize (Best Presentation)	Soc. Vertebrate Paleontology	750 US\$	2018
W.S. Hoar Award (Best Presentation)	Canadian Soc. Zoologists	Hon. Mention	2018
R.L. Carroll Prize (Best Presentation)	Can. Soc. Vert. Palaeontology	500 C\$	2017
B.K. Hall Award (Best Presentation, CMD)	Canadian Soc. Zoologists	400 C\$	2015
UMI Distingshd. Thesis, STEM Award	West. Assoc. Grad. Schools	1,400 US\$	2013
Soc. Gen. Physiol. Award (service award)	Marine Biological Laboratory	500 US\$	2013
Best Poster by Undergraduate	Soc. Dev. Biol., NW Chapter	400 US\$	2009
<b><i>Major honors</i></b>			
Gov. General's Gold Medal, dept. nominee	University of Alberta		2018
Invited speaker	National Mus. Sci. Tech. Japan		2016
Invited speaker, Commonwealth Sci. Con.	Royal Society, London		2014
Teaching Commendation	University of Alberta		2012
Top 20 Altmetric Paper	Taylor & Francis		2015
Best Paper in <i>J. Anatomy</i> , runner-up	Anatomical Society		2011

**Grants Received**

<b>Title</b>	<b>Granting agency</b>	<b>Value</b>	<b>Year</b>	<b>Topic<sup>1</sup></b>
Yinliang Research Grant	Yinliang Group, China	3,000 US\$~	2018	Din, Lab
PDFA Travel Grant	Postdoc. Assoc. U. Alberta	500 C\$	2018	Vert, Con
Travel Award	Can. Society of Zoologists	400 C\$	2018	Vert, Con
Commonwealth Follow-on Grant*	Royal Society, London	3,000 B£	2016	Vert, Field
FGSR Travel Award	University of Alberta	2,000 C\$	2016	Vert, Con
Trav. Fell. Craniofac. Morphogen.	Gordon Research Conference	600 US\$	2016	Dev, Con
Charlotte Mangum Student Support	Soc. Integr. Comp. Biol.	400 US\$~	2016	Eco, Con

Title	Granting agency	Value	Year	Topic <sup>1</sup>
Brian Patterson Grant <sup>§</sup>	Soc. Vertebrate Paleontology	2,500 US\$	2015	Vert, Field
Travel Grant	PanAm. Soc. Evo-Devo	400 US\$	2015	Dev, Con
M.A. Fritz Grant	Royal Ontario Museum	500 C\$	2015	Vert, Lab
Frederick B. Matthew Grant	New Brunswick Museum	1,000 C\$	2015	Vert, Lab
		1,000 C\$	2014	Vert, Field
Travel Support, Invited Speaker	Royal Society, London	1,900 C\$	2014	Dev, Con
Richard Estes Memorial Grant	Soc. Vertebrate Paleontology	1,800 US\$	2014	Vert, Field
Travel Support, Invited Speaker	West. Assoc. Grad. Schools	1,439 US\$	2014	Vert, Con
MBL Embryology Scholarship	Surdna Foundation	3,920 US\$	2013	Dev, Lab
Travel Grant	Can. Society of Zoologists	250 C\$	2013	Vert, Con
		250 C\$	2011	Vert, Con
Student Project in Vert. Paleontol.	Dinosaur Research Institute	1,900 C\$	2013	Din, Lab
		1,100 C\$	2012	Din, Lab
		3,765 C\$	2011	Din, Field
		2,352 C\$	2010	Din, Field
Travel Award	American Assoc. Anatomy	350 US\$	2013	Vert, Con
Travel Fellowship	RIKEN Center Dev. Biol.	2,500 US\$~	2013	Dev, Con
Geoparks Developm. Fund	China Geosciences U.	1,500 US\$~	2012	Din, Field
Jackson Sch. Geol. Travel Award	Soc. Vertebrate Paleontol.	450 US\$	2012	Vert, Con
West. Can. U. Mar. Sci. Soc. Award	Bamfield Marine Sci. Cent.	1,500 C\$	2012	Vert, Lab
		6,000 C\$	2011	Vert, Lab
L. Gray Memorial Fnd. Marine Sci.	American Mus. Nat. Hist.	2,000 US\$	2011	Vert, Lab
Rene Vandervelde Award	Dinosaur Research Institute	1,250 C\$	2011	Din, Con
OWECS Fellowship	Okinawa Inst. Sci. Tech.	3,000 US\$~	2010	Dev, Lab
D. Willows Scholarship	Friday Harbor Labs	1,500 US\$	2010	Dev, Lab
Research Grant	Jurassic Foundation	3,800 US\$	2010	Din, Field
D.H. Tanke Award Neocerat. Res.	Dinosaur Research Institute	450 C\$	2010	Din, Lab

<sup>1</sup>**Topics:** Dev = developmental biology; Din = dinosaurs; Eco = marine ecology; Vert = vertebrates, origins and early evolution; Con = conference; Field = fieldwork; Lab = laboratory.

**Other codes:** ~approximate value; \*Co-applicant with A. Chinsamy (U. Cape Town); §Co-applicant with M. Chevrinai (U. Quebec) and K. Criswell (U. Chicago).

**Teaching**

<b>Position</b>	<b>Course name</b>	<b>Code</b>	<b>Institution</b>	<b>Tenure</b>
Script Writer / Cont. Editor	Early Vertebrates (MOOC)	PALEO 200	U. Alberta	2015
Supervisor	Research Exp. Biol. Sci.	BIOL 398	U. Alberta	2016–2018
		BIOL 298	U. Alberta	2015
Guest instructor	Evolution & Development	ORGB 33850	U. Chicago	2018
	Extinctions: Past and Present (MOOC)		U. Cape Town	2017
	Dinosaurs in the Fossil Rec.	PALEO 201	U. Alberta	2016
	Survey of Invertebrates	ZOOL 250	U. Alberta	2013
Lab instructor	Survey of Invertebrates	ZOOL 250	U. Alberta	2012*

\*Teaching Commendation

**Student Supervision**

<b>Student</b>	<b>Program</b>	<b>Year</b>	<b>Topic</b>
Chida, Mori	Undergrad. research	2017–2018	Silurian anaspid morphology
Gordon, Brogan	Undergrad. research	2017–2018	Growth of mutant zebrafish
Powers, Mark	Undergrad. research	2016–2017	Atlantal complex in theropods
Simard, Christine	Undergrad. research	2015–2016	Lamprey metamorphosis
Prioleau, Brittany	CHOOSE Dev.	2013	Tunicate embryology, MBL
Pineda, Christopher	CHOOSE Dev.	2013	Chick embryology, MBL
Kubo, Kota* <sup>H</sup>	Undergrad. thesis	2016	Theropod scaling
Kurosu, Mariko* <sup>C</sup>	Masters, geology	2015	Dromaeosaurid systematics
Conte, Gabriele* <sup>B</sup>	B.Sc. thesis	2014–2015	Eocene triakid sharks
Doshi, Neel*	BMSC Direc. Stud.	2011	Hagfish locomotion
Anonymous $N = 9$		2010–2011	Fieldwork trainees

\**Ad hoc* advisory (not official supervisor); <sup>B</sup>U. Bologna; <sup>C</sup>China Geosciences U.; <sup>H</sup>U. Hokkaido

**Conference Presentations** (as primary presenter)

<b>Conference</b>	<b>Form.</b>	<b>Year<sup>1</sup></b>	<b>Topic</b>
<b><i>International societies</i></b>			
Society of Vertebrate Paleontology	Oral	2009–2011* 2013–2015 2017, 2018 <sup>†</sup>	Early vertebrates, theropod anat., vertebral dev., Eocene food web, origin of joints, lamprey ontogeny
	Poster	2006–2008 2012*, 2017	Ornithischian anat., systematics, vertebrate origins, cyclostomes
Pan-Am. Soc. Evolut. Developmental Biol.	Oral	2017	Evolution of jaw joint
	Poster	2014*	Origin of vertebrate jaws
Internat. Congress Vertebrate Morphology	Oral	2016 <sup>§</sup>	Origin of vertebrate jaws
Soc. Integrative & Comparative Biology	Oral	2014, 2016* 2018	Vertebrate head, shark paleoecol. cyclostome origins
Commonwealth Science Con. (Royal Soc.)	Oral	2014 <sup>§*</sup>	Early vertebrate evolution
Western Association of Grad. Schools.	Oral	2014 <sup>§*</sup>	Thesis award lecture, early verts.
American Association of Anatomists	Poster	2013*	Early vertebrate anatomy
Society for Developmental Biol. NW Reg.	Poster	2009 <sup>†</sup> , 2010	Vertebral development in fish
<b><i>Symposia &amp; workshops</i></b>			
Craniofacial Research Symp., U. Alberta	Oral	2017 <sup>§</sup>	Early vertebrate craniofacial morph.
Gordon Res. Con. Craniofac. Morphogen.	Oral	2016*	Vertebrate jaws, evo-devo
RIKEN Symp. The Making of Vertebrates	Poster	2013*	Origin of vertebrate jaws
International Dinosaur Tracks Symp.	Oral	2012 <sup>§*</sup>	Field guide (China), sauropod
OIST Workshop Evol. Complex Systems	Oral	2010*	Early vertebrate anatomy
Int. Con. Vertebrate Paleobiogeography	Oral	2009 <sup>§</sup>	Latitudinal gradient, dinosaurs
Turtle Symp. Gaffney Festschrift, Tyrrell	Poster	2009	Evol. carotid circulation in turtles
Ceratopsia Symposium, Tyrrell	Poster	2007	Neoceratopsian biogeography
<b><i>National/regional societies</i></b>			
Canadian Society of Zoologists	Oral	2011*, 2013* 2015 <sup>†</sup> , 2018 <sup>†*</sup>	Jawless vert. anatomy, evolution & development, origin of tongue
Canadian Soc. Vertebrate Palaeontology	Oral	2017 <sup>†**</sup>	Cyclostome evolution
Canadian Paleontology Conference	Oral	2013 (2)	Sauropod, tyrannosaur phylogeny
	Poster	2013	Vertebrate jaw origins
R.E. Peter Con. Biological Sciences	Oral	2010, 2014, 2017	Early vert. anat., dev. vertebrae, jaw evolution
U. Alberta Palaeontological Soc.	Oral	2012, 14, 16	Early vert., teleosauroids, vertebrae
	Poster	2008	Tyrannosaur systematics
Alberta Palaeontological Society	Oral	2011	Tyrannosaur systematics
	Poster	2007–2009	Turtle evol., ornithischian anat.

<sup>1</sup>**Awards & Honours:** <sup>§</sup>Invited presentation; <sup>†</sup>Presentation award;

\*Travel support (full or partial refund); \*\*Host committee

**Academic and Public Seminars** (excluding school visits, tours, and other *ad hoc* opportunities)

Venue (Academic)	Date	Venue (Public)	Date
EvMorph Seminar, U. Chicago	2019 Feb.	Alta. Paleo. Soc., Mount Royal U.	2017 May
Armour Seminar, the Field Museum	2019 Feb.	Edmonton Public Library	2016 Nov
Organ. Biol. & Anat., U. Chicago	2018 Oct.	Dinosaur Provincial Park, Alta. (2)	2016 May
Palaeontological Soc., U. Alberta	2018 Jan.	Edm. Life-long Learning Assoc.	2016 May
Hopkins Marine Stat., Stanford U.	2016 Sept	National Museum Sci. Tech. Japan	2016 Mar.
Bronner Lab, California Inst. Tech.	2016 Aug.	Telus World of Science, Edmonton	2015 May
Dept. Biol. Sci., U. Cape Town	2016 Feb.	DiscoverE Summer Camp	2014 July
Dept. Biol. Sci., U. Alberta	2013 Sept.	Edm. Life-long Learning Assoc.	2014 May
Kuratani Lab, RIKEN CDB	2012 Dec.	U. Kagoshima Int. Stud. Ambass.	2014 Aug.
Dept. Biol. Sci., U. Alberta	2012 Oct.	Alta. Paleo. Soc., Mount Royal U.	2014 Jan.
Kuratani Lab, RIKEN CDB	2011 Jan.	Alta. Paleo. Soc., Mount Royal U.	2013 Feb.
Okinawa Inst. Science Tech.	2010 Dec.	Alta. Paleo. Soc., Mount Royal U.	2012 Jan.
Bamfield Marine Sciences Centre	2010 Nov.	Alta. Paleo. Soc., Mount Royal U.	2011 Mar.
Friday Harbor Labs, U. Washingt.	2010 Aug.		
National Museum Sci. Tech. Japan	2009 Nov.		

**Fieldwork**

Leader	Institution	Year	Locality <sup>1</sup>
<b>T. Miyashita</b> , R. Gess	U. Alberta, Albany Museum	2016, 2019	Cape Supergroup, S. Africa <sup>§</sup>
<b>T. Miyashita</b> , C. Brown	R. Tyrrell Mus. Palaeontol.	2018	Dinos. Prov. Park, Alberta <sup>†</sup>
P.J. Currie	U. Alberta	2016	Dinos. Prov. Park, Alberta <sup>†</sup>
F. Fanti	U. Bologna	2015	Douiret Fm., Tunisia <sup>†</sup>
<b>T. Miyashita</b> , K. Criswell, & M. Chevrinai	U. Alberta, U. Chicago, U. Quebec Rimouski	2015	Battery Point Fm., Quebec <sup>§</sup>
<b>T. Miyashita</b>	U. Alberta, N. Brunswick M.	2014	Campb. Fm., N. Brunswick <sup>§</sup>
<b>T. Miyashita</b>	U. Alberta	2009–2011	Oldman Fm., Alberta <sup>†</sup>
<b>T. Miyashita</b>	Bamfield Marine Sci. Cent.	2008–2011	Barkley Sound, Brit. Col.*
M.J. Ryan, D.C. Evans	Clevl. M. NHist., R. Ont. M.	2006–2009	Milk River, Alberta <sup>†</sup>
P.J. Currie	U. Alberta	2007, 2009	Horsesh. Can. Fm., Alberta <sup>†</sup>
F. Fanti	U. Bologna	2006–2007	Wapiti Fm., Alberta <sup>†</sup>
D.C. Evans	U. Toronto	2005	Horsesh. Can. Fm., Alberta <sup>†</sup>
P.J. Currie, D. Brinkman	R. Tyrrell Mus. Palaeontol.	2004–2005	Dinos. Prov. Park, Alberta <sup>†</sup>
P.J. Currie	R. Tyrrell Mus. Palaeontol.	2003–2005	Dry Isl. Prov. Park, Alberta <sup>†</sup>

<sup>1</sup>Locality, type: <sup>§</sup>Paleozoic; <sup>†</sup>Mesozoic; \*modern

**Media Appearances****Biographical interviews:**

Source	Medium	Year	Source	Medium	Year
TV Asahi	TV	2019	Pseudocephalus	Blog	2011
Yomiuri TV	TV	2018	Science Contours	Magazine	2010
Nikkei Business	Magazine	2018	CBC Edmonton AM	Radio	2010
National Geographic (Japan)	Magazine	2017	Calgary Herald	Newspaper	2010
The Gateway	Newspaper	2017	Edmonton Journal <sup>§</sup>	Newspaper	2010
National Mus. Sci. Tech.	Website	2016	U. Alberta Web Feature	Short film	2010
Folio	Newspaper	2012	NHK (Japan Nat. Broadcas.)	TV	2010
Grip on Life	Magazine	2011	Valley Times <sup>§</sup>	Newspaper	2005
U. Alberta Viewbook	Pamphlet	2011	Tracks and Traces	Magazine	2005

**Research coverage:**

Source	Medium	Year	Source	Medium	Year
PNAS Podcast	Podcast	2019	Nat. Geo., BBC, CNN, Science, 500+ others*	TV, web, Newspaper	2016
Strange News, NPR*	Radio	2019	CTV National	TV	2015
The Atlantic	Magazine	2019	CBC Edmonton AM	Radio	2015
The Guardian <sup>§</sup> , UChicago <sup>§</sup> , Spiegel, 150+ others	Newspaper, web news	2019	Science, CNN, Wash. Post, LA Times <sup>§</sup> , 500+ others	Newspaper, web news	2015
The Atlantic	Magazine	2018	Times of India	Newspaper	2014
Newton	Magazine	2017	Nature, Nat. Geo., CBC, Globe & Mail, 56 others*	Newspaper, web news	2013
NY Times, CNN, BBC, Nat. Geo., 500+ others <sup>§*</sup>	Newspaper, TV, radio	2016	Museums of the World	Magazine	2012
CBC Quirks&Quarks	Radio	2016	Science Daily, 50+ others	Web news	2011
CBC Calgary Eyeopner	Radio	2016	Herald Tribune, 15 others*	Newspaper	2010
CBC Edmonton AM	Radio	2016	Globe&Mail, Nat. Post, Edm. Journal, 47 others	Newspaper	2009
ICI Radio Canada	TV	2016	Science Daily, 28 others*	News, web	2008
CTV Edmonton (Eve. News)	TV	2016			
Edmonton J <sup>§</sup> , 30+ others	Newspaper	2016			

**Fieldwork and outreach coverage:**

Medium	Format	Year	Medium	Format	Year
UQAR News*	Newspaper	2016	CBC Quebec	Radio	2015
ICI*	TV, Radio	2016	CBC New Brunswick	TV	2014
Himitsu-kichi Kara Hasshin	Magazine	2016	Tribune Campbellton	Newspaper	2014
Asahi Shimbun	Newspaper	2016	St. Albert Gazette	Newspaper	2014
Science Contours	Magazine	2016	U. Alberta News	Web	2014

<sup>§</sup>Frontpage; \*not primary interviewee

**Services Related to Scientific Exhibits and Collections**

<b>Exhibit/initiative</b>	<b>Year</b>	<b>Role</b>
Hunters of the Oceans, Nat. Mus. Sci. Japan	2016	Images for display, guidebook
Dinosaur Expo 2016, Nat. Mus. Sci. Japan	2016	Translator, guidebook and press events, consultant
<i>Daspletosaurus</i> exhibit, R. Tyrrell Museum	2016	Consultant for skull reconstruction
Discovering Dinosaurs, U. Alberta	2014	Consultant for exhibit design, panels
New exhibit, Osaka Mus. Nat. Hist.	2014	Translator, guidebook and panel
Mifune Dinosaur Museum, Japan	2013	Consultant & translator, designing a new gallery
PaleoScience, Japan	2012	Translator, consultant for design
Qijiang Fossil Museum, China	2011	Consultant, skeletal reconstruction

**Contribution as a Referee**

<b>Journal/treatise</b>	<b>#MS</b>	<b>Journal/treatise</b>	<b>#MS</b>
<i>Acta Palaeontologica Polonica</i>	1	<i>Journal of Fish Biology</i>	2
<i>Acta Zoologica</i>	1	<i>Journal of Zoology</i>	2
<i>Behavioral Brain Research</i>	1	<i>Paleobiology</i>	1
<i>EvoDevo</i>	2	<i>Palaeontology</i>	1
<i>Hagfish Biology</i>	1	<i>PLoS One</i>	2
<i>Historical Biology</i>	2	<i>Symmetry</i>	1
<i>Journal of Experimental Zoology B</i>	2		

**Services for Academic Societies and Institutions**

<b>Role</b>	<b>Year</b>	<b>Society/institution</b>
Co-organizer, co-guest editor of Can. J. Zoology A. Richard Palmer Symposium	2019	Canadian Society of Zoologists
Local Organizing Committee	2017	Can. Soc. Vertebrate Paleontology
FGSR mentor for fellowship applicants	2013–2016	University of Alberta
Specimen Rescue Fund (Tohoku Earthquake)	2011	Society of Vertebrate Paleontology
Mentor for international graduate students	2011–2015	University of Alberta
Gala, Laboratory for Vertebrate Paleontology	2010–2017	University of Alberta
Graduate student representative	2010–2011	Bamfield Marine Sciences Centre

**Current Professional Affiliations**

<b>Society</b>	<b>Tenure</b>	<b>Society</b>	<b>Tenure</b>
Society of Vertebrate Paleontology	2005–	Soc. Integrative & Comp. Biology	2013–
Society for Developmental Biology	2010–	Canadian Soc. Vert. Paleontology	2013–
Canadian Society of Zoologists	2011–	Pan-Am. Soc. Evol. Dev. Biology	2014–



**Publications: TETSUTO MIYASHITA**

**Theses**

Miyashita, T. (2018).

*Development, Anatomy, and Phylogenetic Relationships of Jawless Vertebrates and Tests of Hypotheses about Early Vertebrate Evolution.*

Unpublished Ph.D. dissertation.

The University of Alberta. pp. 479.

**T.W.M. Cameron Outstanding Ph.D. Thesis Award**

(Best PhD thesis in zoology submitted to a Canadian university)

Department nominee for: **Governor General’s Gold Medal** (campus-wide finalist)

Miyashita, T. (2012).

*Comparative Analysis of the Anatomy of the Myxinoidea and the Ancestry of Early Vertebrate Lineages.*

Unpublished M.Sc. Thesis.

The University of Alberta. pp. 407.

**The Western Association of Graduate Schools Distinguished Thesis /**

**UMI Outstanding Thesis STEM Award**

**Refereed Papers** (§ = corresponding author; \* = authors who contributed equally)

2019

**Miyashita, T.**<sup>§</sup>, M.I. Coates, R. Farrar, P. Larson, P.L. Manning, R.A. Wogelius, N.P. Edwards, J. Anné, U. Bergmann, A.R. Palmer, and P.J. Currie.

Hagfish from the Cretaceous Tethys Sea and a reconciliation of the morphological-molecular conflict in early vertebrate phylogeny.

*Proceedings of the National Academy of Sciences* 116: 2146–2151.

***Featured in “This Week in PNAS”; international media coverage***

**Miyashita, T.**<sup>§</sup>, S.A. Green, and M.E. Bronner.

Comparative development of cyclostomes.

*Evolution and Development of Fishes*. Z. Johanson, R. Richter, and C. Underwood (eds.) pp. 30–58. Cambridge University Press.

2017

Xing, L.<sup>§</sup>, R.C. McKellar, X. Xu, G. Li, M. Bai, W.S. Persons, **T. Miyashita**, M.J. Benton, J. Zhang, A.P. Wolfe, Q. Yi, K. Tseng, H. Ran, and P.J. Currie.

Response to: Phylogenetic placement, developmental trajectories and evolutionary implications of a feathered dinosaur tail in Mid-Cretaceous amber.

*Current Biology* 27: R216–R217.

2016

**Miyashita, T.**

Fishing for jaws in early vertebrate evolution: A novel hypothesis of mandibular confinement.

*The Biological Reviews* 91: 611–657.

**Cover Image**

**Miyashita, T.**<sup>§</sup>, and R. Diogo<sup>§</sup>.

Evolution of serial patterns in the vertebrate pharyngeal apparatus and paired appendages via assimilation of dissimilar units.

*Frontiers Ecology and Evolution* 4: 71. 26 pp.

**Inaugural article for the new section “Evo-Devo”**

Fanti, F., D. Minelli, G.L. Conte and **T. Miyashita**<sup>§</sup>.

An exceptionally preserved Eocene shark and the rise of modern predator-prey interactions in the coral reef food web.

*Zoological Letters* 2: 9. 18 pp.

Fanti, F., **T. Miyashita**, L. Cantelli, F. Mnasri, J. Dridi, M. Contessi, and A. Cau<sup>§</sup>.

The largest thalattosuchian (Crocodylomorpha) supports teleosaurid survival across the Jurassic-Cretaceous boundary.

*Cretaceous Research* 61: 263–274.

**International media coverage**

Xing, L.<sup>§</sup>, R.C. McKellar, X. Xu, G. Li, M. Bai, W.S. Persons, **T. Miyashita**, M.J. Benton, J. Zhang, A.P. Wolfe, Q. Yi, K. Tseng, H. Ran, and P.J. Currie.

A feathered dinosaur tail with primitive plumage trapped in mid-Cretaceous amber.

*Current Biology* 26: 3352–3360.

**International media coverage**

Xing, L.<sup>§</sup>, M.G. Lockley, J. Zhang, H. Klein, D. Li, **T. Miyashita**, Z. Li, and S.B. Kummel.

A new sauropodomorph ichnogenus from the Lower Jurassic of Sichuan, China fills a gap in the track record.

*Historical Biology* 28: 881–895.

2015 **Miyashita, T.**<sup>§</sup>, and M.I. Coates.

Hagfish embryology: staging table and relevance to the evolution and development of vertebrates.

*Hagfish Biology*. S.L. Edwards and G.G. Goss (eds.) pp. 95–127. CRC Press.

Xing, L.<sup>§\*</sup>, **T. Miyashita**<sup>\*</sup>, P.J. Currie, H.-L. You, and Z.-M. Dong.

A new basal eusauropod from the Middle Jurassic of Yunnan Province, People’s Republic of China.

*Acta Palaeontologica Polonica* 60: 145–154.

Xing, L.<sup>\*</sup>, **T. Miyashita**<sup>§\*</sup>, J. Zhang, D. Li, Y. Ye, T. Sekiya, F. Wang, and P.J. Currie.

A new sauropod dinosaur from the Late Jurassic of China and the diversity, distributions, and relationships of mamenchisaurids.

*Journal of Vertebrate Paleontology* 35: e889701. 17 pp.

**Taylor & Francis Altmetric Top 20 Paper, international media coverage**

Xing, L.<sup>§</sup>, B.M. Rothschild, H. Ran, **T. Miyashita**, W.S. Persons, T. Sekiya, J.-P. Zhang, T. Wang, and Z.-M. Dong.

Vertebral fusion in two sauropodomorph dinosaurs from the Lufeng Formation of China, Yunnan.

*Acta Palaeontologica Polonica* 60: 643–649.

2014 **Miyashita, T.<sup>§</sup>**, and A.R. Palmer.

Handed behavior in hagfish – an ancient vertebrate lineage – and a survey of lateralized behaviors in other invertebrate chordates and elongate vertebrates.

*The Biological Bulletin* 226: 111–120.

**Cover Image**

Xing, L.<sup>§</sup>, M. Avanzini\*, M.G. Lockley\*, **T. Miyashita\***, H. Klein, J.-P. Zhang, Q. He, L.-Q. Qi, J.D. Divay, and C.-K. Jia.

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2013 Xing, L.<sup>§</sup>, W.S. Persons, P.R. Bell, X. Xu, J. Zhang, **T. Miyashita**, F. Wang, and P.J. Currie.

Piscivory in the feathered dinosaur *Microraptor*.

*Evolution* 67: 2441–2445.

**International media coverage**

2012 **Miyashita, T.**

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- Xing, L.<sup>§</sup>, P.R. Bell, W.S. Persons IV, S. Ji, **T. Miyashita**, M.E. Burns, Q. Ji, and P.J. Currie.  
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- 2010 **Miyashita, T.**<sup>§</sup>, P.J. Currie, and B.J. Chinnery-Allgeier.  
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- Miyashita, T.**<sup>§</sup>, D.H. Tanke, and P.J. Currie.  
Variation in premaxillary tooth count and a developmental abnormality in a tyrannosaurid dinosaur.  
*Acta Palaeontologica Polonica* 55: 635–643.
- 2009 Edgell, T.C.<sup>§\*</sup>, and **T. Miyashita**\*.  
Shell elongation and tissue withdrawal depth in fourteen species of temperate intertidal snails.  
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- Fanti, F.<sup>§\*</sup>, and **T. Miyashita**\*.  
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**International media coverage**

**Total n = 25**

### Journal Cover Images

1. *Journal of Anatomy*. Volume 219, issue 12. December 2011. (Miyashita et al., 2011)
2. *genesis: the Journal of Genetics and Development*. Volume 51, issue 8. August 2013. (contributions from students of Embryology, the Marine Biological Laboratory at Woods Hole)

3. *The Biological Bulletin*. Volume 226, issue 2. April 2014. (Miyashita & Palmer, 2014)
4. *The Biological Reviews*. Volume 91, issue 3. August 2016. (Miyashita, 2016)

#### **Selected Abstracts for Conference Presentations (n=10)**

1. Miyashita, T. 2018. Ontogeny of Paleozoic stem lampreys as a test of cyclostome-based models of the vertebrate ancestry. *Journal of Vertebrate Paleontology Online Supplement. Program and Abstracts for the 79<sup>th</sup> Annual Meeting*: 183. (**Talk; Alfred Sherwood Romer Prize recipient**)
2. Miyashita, T. 2016. The acquisition of serial patterning and the making of a ‘segment’ across the evolutionary origin of the vertebrate jaw. *The 11<sup>th</sup> International Congress of Vertebrate Morphology: Program and Abstracts*. p. 215. Bethesda, MD. (**Talk; invited contribution to the symposium “Segmentation and Serial Homology”**)
3. Miyashita, T. 2016. Independent evolutionary origins of serial patterns in the vertebrate head. *Gordon Research Conference in Craniofacial Morphogenesis and Tissue Regeneration*. Ventura, CA. (**Talk; one of 18 talks selected from abstracts**)
4. Miyashita, T., F. Fanti, D. Minelli, and G. Larocca Conte. 2015. An exceptionally preserved Eocene shark and the rise of modern predator-prey interactions in the coral reef food web. *Journal of Vertebrate Paleontology Online Supplement. Program and Abstracts for the 75<sup>th</sup> Annual Meeting*. p. 182. (**Talk**)
5. Miyashita, T. 2015. Evolution of the hypobranchial musculature inside out. *Canadian Society of Zoologists Bulletin, Abstract Book*, 46(2): 104–105. (**Talk; Brian K. Hall Award recipient**)
6. Miyashita, T. 2014. Fishing for jaws in deep time. *Commonwealth Science Conference (Royal Society)*, Bangalore, India. (**Talk; Invited; one of six early-career researchers chosen by the Royal Society’s steering committee**)
7. Miyashita, T. 2014. Vertebrate origins and early evolution. *Western Association of Graduate Schools, the 56<sup>th</sup> annual meeting*. Fargo, ND. (**Talk; Invited; Distinguished Thesis Award**)
8. Miyashita, T. 2013. Mapping developmental characters onto early vertebrate phylogeny: how to make fossils speak. *The Making of a Vertebrate (the 11<sup>th</sup> Annual CDB Symposium)*, Abstract Volume: 212–213. RIKEN, Center for Developmental Biology. (**Travel fellowship; full fund**)
9. Miyashita, T. 2010. Paleontological and morphological perspectives on evolution and development of vertebrates. *OIST Winter Course “Evolution of Complex Systems” Program and Abstract Book*, Okinawa Institute of Science and Technology: 36. (**Talk; Travel fellowship; full fund**)
10. Miyashita, T., E. Snively, and A.M. Murray. 2009. An X-ray computed tomographic study of skeleton formation in the basal actinopterygians fish *Amia calva*. *Northwest Regional Developmental Biology Conference, Program and Abstract Book*: 83. (**Undergraduate Presentation Award recipient**)