

Walter Scott Persons, IV
Department of Biological Sciences
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CURRICULUM VITAE

Post-Doctoral Studies

University of Alberta, Edmonton, Alberta, Canada
Post-doctoral fellowship (2016-2017)
Project topic: *Anatomical description of a new and exceptionally large Tyrannosaurus specimen and the first tyrannosaur skin impressions*
Supervisor: Dr. Philip Currie

Education

University of Alberta, Edmonton, Alberta, Canada
Ph.D. Evolution and Systematics (2016)
Thesis Title: *The Evolution of Bipedal Cursoriality in Dinosaurs: Adaptations in a Predator/Prey Arms Race between Theropods and Ornithopods*
Supervisor: Dr. Philip Currie

Macalester College, St. Paul, Minnesota, USA
B.A. With honors in geology; minor in biology (2008)
Thesis Title: *A Field and Laboratory Study of the Ediacaran Fossils of Hewitt's Cove: Evidence of Tectonic Deformation and Consideration of Paleobiology*
Advisors: Dr. Raymond Rogers

Teaching Experience

Teaching Assistant, Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Canada; *Supervisor: Philip Currie; Dates of Employment: 1/16-4/16. Duties:* Instruct students in Paleo 419 Paleontology of Higher Vertebrates laboratories, writing and marking quizzes and exams, and presenting substitute lectures.

Sessional Instructor, Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Canada; *Supervisor: Jocelyn Hall; Dates of Employment: 9/15-12/15. Duties:* conducted 50-minute lectures three times a week for the course ZOO 224 Vertebrate Diversity, wrote and administered quizzes and final exam, and worked in collaboration with lab coordinator and graduate teaching assistants.

Massive Open Online Course Content Manager and Lead Presenter, University of Alberta Faculty of Science, University of Alberta, Edmonton, AB, T6G 2E1, Canada; *Supervisor*: Glen Loppnow; *Dates of Employment*: 9/15-12/15. *Duties*: Video lecturer for Paleontology 101 -- a trio of paleontology MOOCs on the evolution of theropods, marine reptiles, and early vertebrates -- writing scripts, overseeing the creation of illustrations, managing content team, and writing examination questions.

Teaching Assistant, Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Canada; *Supervisor*: Philip Currie; *Dates of Employment*: 1/15-4/15. *Duties*: Instruct students in Paleontology of Higher Vertebrates laboratories, writing and marking quizzes and exams, and presenting substitute lectures.

Teaching Assistant, Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Canada; *Supervisor*: Braden Bar; *Dates of Employment*: 9/14-12/14. *Duties*: Instruct students in Vertebrate Diversity laboratories, writing and marking quizzes and exams.

Massive Open Online Course Content Manager, Department of Biological Sciences, University of Alberta; *Supervisor*: Philip Currie; *Dates of Employment*: 9/13-4/14. *Duties*: Writing scripts and study guides for Dino 101, overseeing the creation of illustrations, managing content team, and writing examination questions.

Teaching Assistant, Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Canada; *Supervisor*: Philip Currie; *Dates of Employment*: 1/13-4/13. *Duties*: Instruct students in Paleontology of Higher Vertebrates laboratories, writing and marking quizzes and exams, and presenting substitute lectures.

Teaching Assistant, Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Canada; *Supervisor*: Braden Bar; *Dates of Employment*: 9/09-12/13. *Duties*: Instruct students in Vertebrate Diversity laboratories and Comparative Anatomy laboratories, writing and marking quizzes and exams, and preparing dissection specimens.

Teaching Assistant, Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Canada; *Supervisor*: Louise McBain; *Dates of Employment*: 9/08-6/09. *Duties*: Instruct students in Introduction to Biological Diversity laboratories, writing and marking quizzes and exams, and marking lab reports.

Teaching Assistant, Department of Geology, Macalester College, St. Paul, MN, 55105, USA; *Supervisor*: Dr. Kristy C. Rogers; *Dates of Employment*: 8/06-12/06. *Duties*: Assist instructor and writing assignments for Geology 101: Dinosaurs.

Publications

Books

Persons, WS IV. (in press) *Discovering Dinosaurs in the Badlands of Alberta*. Douglas and McIntyre (2013) Ltd. [This is a 16,000 word illustrated children's book on the dinosaurs and other prehistoric animals that once roamed the Canadian west.]

Scientific Manuscripts (total: 42)

Persons WS IV, Currie PJ. *The Functional Origin of Dinosaur Bipedalism: Cumulative Evidence from Bipedally Inclined Reptiles and Disinclined Mammals*. The Journal of Theoretical Biology (in press).

Persons WS IV, Acorn J. *A sea scorpion's sting: new evidence of extreme lateral flexibility in the opisthosoma of eurypterids*. The American Naturalist (in press).

Ruxton G, **Persons WS IV, Currie PJ.** *A continued role for signaling functions in the early evolution of feathers*. Evolution (in press).

Xing L, McKellar RC, Xu X, Li G, Bai M, **Persons WS IV, Miyashita T, Benton MJ, Zhang J, Wolfe AP, Yi Q, Tseng K, Ran H, and Currie PJ.** *Reply to: Phylogenetic placement, developmental trajectories, and evolutionary implications of a feathered dinosaur tail in Mid-Cretaceous amber*. Current Biology (in press).

Xing, L., Abbassi N, Lockley MG, Klein H, Jia S, McCrea RT, and **Persons WS IV.** 2017. *The first record of Anomoepus tracks from the Middle Jurassic of Henan Province, Central China*. Historical Biology 29: 223-229.

Ruxton G, **Persons WS IV, Currie PJ.** *A continued role for signaling functions in the early evolution of feathers*. Evolution (in press).

Xing, L., Abbassi N, Lockley MG, Klein H, Jia S, McCrea RT, and **Persons WS IV.** 2016. *The first record of Anomoepus tracks from the Middle Jurassic of Henan Province, Central China*. Historical Biology 29: 223-229.

Xing L, McKellar RC, Xu X, Li G, Bai M, **Persons WS IV, Miyashita T, Benton MJ, Zhang J, Wolfe AP, Yi Q, Tseng K, Ran H, and Currie PJ.** 2016. *A feathered dinosaur tail with primitive plumage trapped in mid-Cretaceous amber*. Current Biology 26: 3352–3360.

Persons WS IV, Currie PJ. 2016 *An approach to scoring cursorial limb proportions in carnivorous dinosaurs and an attempt to account for allometry*. Scientific Reports, 6: 19828.

- Smith SD, **Persons WS IV**, Xing L. 2016 *A tyrannosaur trackway at Glenrock, Lance Formation (Maastrichtian), Wyoming*. *Cretaceous Research*, 61: 1-4.
- Xing L, Lockley MG, Chen W, Gierlinski G, **Persons WS IV**, Li J, Matsukawa M, Ye Y, Gingras M, Wang C. 2016. *A review of several important theropod track assemblages from the Jurassic of Chongqing, China: implications for ichnotaxonomy and possible track makers*. *Vertebrata Palasiatica* (in press).
- Xing L, Li DQ, Falkingham P, Lockley M, Benton M, Klein H, Zhang J, Ran H, **Persons WS IV**, and Dai H. 2016. *Digit-only sauropod pes trackways from China - evidence of swimming or a preservational phenomenon?* *Scientific Reports*, 6.
- Xing L, Lockley MG, Yang G, Xu X, Cao J, Klein H, **Persons WS IV**, Shen HJ, Zheng XM. 2015. *Unusual deinonychosaurian track morphology (Velociraptorichnus zhangii n. ichnosp.) from the Lower Cretaceous Xiaoba Formation, Sichuan Province, China*. *Palaeoworld*, 24: 283-292.
- Persons WS IV**, Currie PJ. 2015. *Bristles before down: A new perspective on the functional origin of feathers*. *Evolution*, 69: 857-862.
- Xing L, Peng G, Lockley MG, Ye Y, Klein H, McCrea RT, Zhang J, **Persons WS IV**. 2015. *Saurischian (theropod–sauropod) track assemblages from the Jiaguan Formation in the Sichuan Basin, Southwest China: ichnology and indications to differential track preservation*. *Historical Biology*, 22.9: 1-11.
- Xing L, Lockley MG, Marty D, Zhang J, Wang Y, Klein H, **Persons WS IV**, Xie X. 2015. *An ornithopod-dominated tracksite from the Lower Cretaceous Jiaguan Formation (Barremian–Albian) of Qijiang, South-Central China: new discoveries, ichnotaxonomy, preservation and palaeoecology*. *PLOS ONE*, 10(10): e0141059.
- Xing L, Lockley MG, Zhang J, Klein H, Marty D, Peng G, Yee Y, McCrea RT, **Persons WS IV**, Xu T. 2015. *The longest theropod trackway from East Asia, and a diverse sauropod-, theropod-, and ornithopod-track assemblage from the Lower Cretaceous Jiaguan Formation, southwest China*. *Cretaceous Research*, 56: 345–362.
- Persons WS IV**, Funston GF, Currie PJ, Norell MA. 2015. *A possible instance of sexual dimorphism in the tails of two oviraptorosaur dinosaurs*. *Scientific Reports*, 5.
- Dai H., Xing L, Marty D, Zhang, J, **Persons WS IV**, Hu H, Wang, F. 2015. *Microbially-induced sedimentary wrinkle structures and possible impact of microbial mats for the enhanced preservation of dinosaur tracks from the Lower Cretaceous Jiaguan Formation near Qijiang (Chongqing, China)*. *Cretaceous Research*, 53: 98-109.
- Daqing L, Xing L, Lockley MG, Piñuela L, Zhang J, Dai H, Yul Kim J, **Persons WS IV**, Kong D. 2015. *A manus dominated pterosaur track assemblage from Gansu, China: implications for behavior*. *Science Bulletin* 60.2: 264-272.

- Xing L, Lockley MG, Yang G, Mayor A, Klein H, **Persons WS IV**, Chen Y, Peng GZ, Ye Y, Ebi JF. 2015. *Tracking a legend: An Early Cretaceous sauropod trackway from Zhaojue County, Sichuan Province, southwestern China*. *Ichnos*, 22: 22-28
- Xing L, Lockley MG, Tang YG, Klein H, Zhang JP, **Persons WS IV**, Dai H, Ye Y. 2015. *Theropod and ornithischian footprints from the Middle Jurassic Yanan Formation of Zizhou County, Shaanxi, China*. *Ichnos* 22: 1-11.
- Xing L, **Persons WS IV**, L Daqing, Y Hailu, Lockley MG, Peng C, Marty D, Kümmell SB, Zhang J. 2015. *Dinosaur natural track casts from the Lower Cretaceous Hekou Group in the Lanzhou-Minhe Basin, Gansu, Northwest China: Ichnology, track formation, and distribution*. *Cretaceous Research* 52: 194-205.
- Persons WS IV**, Currie PJ. 2014. *Duckbills on the run: the cursorial abilities of giant Late Cretaceous ornithopods and implications for tyrannosaurs avoidance strategies*. In: HADROSAURS (eds. Eberth DA and Evans DC). Indiana University Press, Indianapolis, IN. 449-458.
- Xing L, Rothschild BM, Ran H, Miyashita T, **Persons WS IV**, Toru S, Zhang J, Wang T, Dong Z. 2014. *Vertebral fusion in two Early Jurassic sauropodomorph dinosaurs from the Lufeng Formation of Yunnan, China*. *Acta Palaeontologica Polonica* doi: <http://dx.doi.org/10.4202/app.00001.2013>
- Xing L, Lockley MG, Wang QF, Li ZD, Klein H, **Persons WS IV**, Ye Y, Matsukawa M. 2014. *Earliest records of dinosaur footprints in Xinjiang, China*. *Vertebrata Palasiatica*. 52: 340–348.
- Xing, L, Lockley MG, Zhang J, Klein H, **Persons WS IV**, Dai H. 2014. *Diverse sauropod-, theropod-, and ornithopod-track assemblages and a new ichnotaxon Siamopodus xui ichnosp. nov. from the Feitienshan Formation, Lower Cretaceous of Sichuan Province, southwest China*. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 414, 79-97.
- Xing L, Peng GZ, Ye Y, Lockley MG, Klein H, **Persons WS IV**, Zhang JP, Shu CK, Hao BQ. *Sauropod and small theropod tracks from the Lower Jurassic Ziliujing Formation of Zigong City, Sichuan, China with an overview of Triassic-Jurassic dinosaur fossils and footprints of the Sichuan Basin*. *Ichnos*. 21: 119-130.
- Xing L, Lockley MG, Zhang JP, Klein H, Kim JY, **Persons WS IV**, Matsukawa M, Yu X Q, Li JJ, Chen GB, Hu Y. 2014. *Upper Cretaceous dinosaur track assemblages and a new theropod ichnotaxon from Anhui Province, eastern China*. *Cretaceous Research*. 49: 190-204.
- Xing L, Niedzwiedzki G, Lockley MG, Zhang JP, Cai XF, **Persons WS IV**, Ye Y. 2014. *Asianopodus type footprints from the Hekou Group of Honggu District, Lanzhou*

- City, Gansu, China and the "heel" of large theropod tracks*. *Palaeoworld* 23: 304-313.
- Xing L, Lockley MG, Miyashita T, Klein H, Wang T, **Persons WS IV**, Pan SG, Zhang JP, Dong ZM. 2014. *Large sauropod and theropod tracks from the Middle Jurassic Chuanjie Formation of Lufeng County, Yunnan Province and palaeobiogeography of Middle Jurassic sauropod tracks from southwestern China*. *Palaeoworld* 23: 294-303.
- He Q, Xing L, Zhang JP, Lockley MG, Klein H, **Persons WS IV**, Qi L Q, Jia C K. 2013. *New Early Cretaceous pterosaur-bird track assemblage from Xinjiang, China - palaeoethology and palaeoenvironment*. *Acta Geologica Sinica (English edition)*. 87(6): 1477-1485.
- Xing L, Lockley MG, Dong L, Klein H, Zhang JP, Gierliński GD, Ye Y, **Persons WS IV**, Long Z. 2013. *Middle Jurassic theropod trackways from the Panxi region, Southwest China and a consideration of their geologic age*. *Paleoworld* 22:36-41.
- Xing L, Lockley M, Chen W, Gierlinski G, **Persons WS IV**, Li J, Matsukawa M, Ye Y, Gingras M, Wang C. 2013. *Two theropod track assemblages from the Jurassic of Chongqing, China, and the Jurassic Stratigraphy of Sichuan Basin*. *Vertebrata Palasiatica* 51: 107-130.
- Persons WS IV**, Currie PJ. 2013. *Dragon tails: convergent caudal morphology in winged archosaurs*. *Acta Geologica Sinica* 86: 1402-1412.
- Xing L, **Persons WS IV**, Bell P, Xu X, Zhang J, Miyashita T, Wang F, Currie P. 2013. *Piscivory in the feathered dinosaur Microraptor*. *Evolution* 67(8): 2441-2445.
- Xing L, Zhang J, Lockley MG, Klein H, Li D, **Persons WS IV**. 2013. *A new Early Cretaceous dinosaur track assemblage and the first definite non-avian theropod swim trackway from China*. *Chinese Science Bulletin* DOI 10.1007/s11434-0: 1-9.
- Persons WS IV**, Currie P, Norell M. 2013. *Oviraptorosaur tail forms and functions*. *Acta Palaeontologica Polonica* 59: 553-567.
- Xing L, Lockley M, He Q, **Persons WS IV**, Yinwen X, Jianping Z. 2012. *Forgotten Paleogene limulid tracks: Xishuangb anania from Yunnan, China*. *Paleoworld*. 21: 217-221.
- Xing L, Bell P, **Persons WS IV**, Ji Q, Ji S, Miyashita T, Burns M, Currie PJ. 2012. *Abdominal contents from two large compsognathids demonstrate feeding on dromaeosaurids and confuciusornithids*. *PLoS ONE* 7(8): e44012.

Persons WS IV, Currie PJ. 2011. *Dinosaur Speed Demon: The Caudal Musculature of Carnotaurus sastrei and Implications for the Evolution of South American Abelisaurids*. PLoS ONE 6(10): e25763.

Persons WS IV, Currie PJ. 2011. *The tail of Tyrannosaurus: reassessing the size and locomotive importance of the M. caudofemoralis in non-avian theropods*. The Anatomical Record: Advances in Integrative Anatomy and Evolutionary Biology 294: 119–131.

Scientific Manuscripts Submitted and Under Review

Xing LD, Lockley MG, Wang QF, Li ZD, Klein H, **Persons WS IV**, Ye Y, Matsukawa M. *Earliest records of theropod footprint in the Early Jurassic of Xinjiang, China*.

Published Scientific Abstracts (* indicates presenter)

Persons WS IV, Currie P*. 2015. *Sexually-selected bridges in the fitness landscape: implications from the functional history of feather evolution*. Supplement to the Journal of Vertebrate Paleontology, 2015 Annual Meeting Abstract Volume, 194.

***Persons WS IV**. 2013. *The evolution, function, and possible sexual dimorphism of oviraptorosaurs tails*. 2013 Hwaseong International Dinosaur Expedition Symposium, 2013 Meeting Abstract Volume, 196-197.

***Persons WS IV**. 2013. *The adaptive origins of dinosaur bipedalism: clues from bipedally inclined diapsids and disinclined synapsids*. Canadian Paleontology Conference Proceedings No. 11, 56.

***Persons WS IV**, Xing L, Bell P, Currie P, Miyashita T. 2013. *Direct and morphologically-inferred evidence of piscivory in Microraptor*. Supplement to the Journal of Vertebrate Paleontology, 2013 Annual Meeting Abstract Volume, 190-191.

***Persons WS IV**, Currie PJ. 2012. *Adaptive cursorial trends among theropod dinosaurs and an attempt to look beyond allometry*. Supplement to the Journal of Vertebrate Paleontology, 2012 Annual Meeting Abstract Volume, 156-157.

***Persons WS IV**, Currie PJ. 2011. *Shake your tail feathers: the flamboyant, athletic, and possibly flirtatious caudal morphology of oviraptorosaurs*. Supplement to the Journal of Vertebrate Paleontology, 2011 Annual Meeting Abstract Volume, 132.

***Persons WS IV**. 2011. *Duckbills on the run: comparing the cursorial abilities of hadrosaur and tyrannosaurs*. Hadrosaur Symposium 2011 abstract volume, 117-121.

- ***Persons WS IV**. 2010. *Convergent evolution of prezygapophysis/chevron rods in the tails of pterosaurs and dromaeosaurs and the parallel pattern of caudal muscle reduction in pterosaurs and birds*. Acta Geoscientica Sinica, 31 supplement to no. 1: 20-21.
- ***Persons WS IV**, Currie PJ. 2010. *Anatomy of a speed demon: the caudal musculature of Carnotaurus and implications for abelisaurid locomotion and evolutionary trajectory*. Journal of Vertebrate Paleontology, 30 supplement to no. 3: 145A.
- ***Persons WS IV**. 2009. *Theropod tail muscle reconstruction and assessment of the locomotive contributions of the M. caudofemoralis*. Journal of Vertebrate Paleontology, 23 supplement to no. 3: 164.
- ***Persons WS IV**, Currie PJ. 2008. *The locomotive importance of the M. caudofemoralis in non-avian theropods*. 2008 Annual Meeting of the Alberta Paleontological Society Abstract Volume, 23.
- ***Persons WS IV**. 2008. *If the shoe fits: an examination of the proposed relationship between habitat and foot-surface area based on modern megafauna, and the application of such a relationship to the paleoecology of dinosaurs*. Southeastern Association of Vertebrate Paleontology Abstracts with Programs, 41.
- *Beuthin JD, M.A.S. McMenamin, **Persons WS IV**. 2007. *Fossiliferous laminites of the Proterozoic Cambridge Argillite, Boston Basin*. Geological Society of America Abstracts with Programs.
- ***Persons WS IV**. 2006. *Exploring dinosaur paleoecology of a vertebrate microfossil assemblage in the Late Cretaceous Lance Formation, Wyoming*. Winchell 2006 Undergraduate Research Symposium (part of the Minnesota Academy of Science) Abstracts with Programs.

Magazine Entries

- Persons WS IV**, Johns H (translator). *China: A New Land of Dinosaur Discovery*. Chinese National Geography, June 2010: 148-154.

Grants and Scholarships

- Graduate Scholarship in Vertebrate Paleontology at the University of Alberta
November 19, 2014
Value: \$2,350
- Rene Vandervelde Travel Grant for the SVP Annual Meeting
June 1, 2013
Value: \$2,500

Jackson School of Geosciences Student Member Travel Grant
May 20, 2013
Value: \$400

Dinosaur Research Institute Student Project Grant
June 1, 2012
Value: \$3,000

University of Alberta Doctorial Scholarship
September 1, 2011-September 1, 2014
Value: \$20,000

University of Alberta Graduate Teaching Assistantship
September 1, 2011- April 12, 2016
Value: \$80,678

University of Alberta China Institute Student Travel Grant
April 1, 2010
Value: \$1,000

Rene Vandervelde Travel Grant for the SVP Annual Meeting
June 1, 2009
Value: \$2,500

Dinosaur Research Institute Student Project Grant
April 7, 2009
Value: \$3,000

University of Alberta Graduate Teaching Assistantship
September 1, 2008- December 30, 2010
Value: \$44,890

Department of Biological Sciences GTA Scholarship
September 1, 2008
Value: \$1,500

Professional Awards

Discover's 100 top Science Stories of 2015

Discover Magazine, research on *Velociraptor*-like footprints profiled in special end of 2015 edition.

Graduate Student Research Assistant Award

University of Alberta, awarded based on supervisor recommendation and curriculum vitae. 2015.

The ISSS Award for Excellence in Teaching

University of Alberta Interdepartmental Science Student's Society, awarded based on student nominations. 2014

University of Alberta International Student Award

Graduate Students' Association 16th Annual Awards Night, University of Alberta. 2012

Best Oral Presentation – PhD

The Richard E. Peter Biology Conference, University of Alberta. 2012.

AEGS Silver Graduate Student Teaching Award

Graduate Students' Association 16th Annual Awards Night, University of Alberta. 2010

Best Oral Presentation – MSc

The Richard E. Peter Biology Conference, University of Alberta. 2009.

Select Interviews and Media Relations

Program: *Super Titan IMAX*, IMAX and Myth Merchant Films, In production, release expected Winter 2018. Topic: Scientific consultant and on-screen interview, documentary on the giant sauropod *Amphicoelias*.

Program: *CBC Radioactive*, CBC Edmonton Radio, In production, first broadcast expected: July 2016. Topic: A series of nine interview segments on Albertan dinosaur species.

Journal: *Discover Magazine*, Kalmbach Publishing Co., Published: 2016-06. Topic: "Every Thing You Need to Know about Dinosaur Evolution", interview on the basics of dinosaur systematics and evolutionary history.

Journal: *Discover Magazine*, Kalmbach Publishing Co., Published: 2016-01. Topic: Discover's 100 top science stories of 2015, discovery of *Velociraptor*-like footprints.

Program: *The Boneyard*, History Channel, Pilot aired April, 2016. Topic: Assessing the size, bite strength, and speed of *Tyrannosaurs* and *Giganotosaurus* on site in Argentina.

Journal: *CNET Movie News*, CBS Interactive Inc., Published: 2015-11-16. Topic: Speculation on the premise of the PIXAR film *The Good Dinosaur* and what the world would be like if dinosaurs still ruled.

Journal: *Nature World News*, Nature Publishing Group, Published: 2015-06-16. Topic: Interviewed on new research into fossil tracks of a “raptor” dinosaur.

Program: *CTV Edmonton News*, CTV, First broadcast: 2015-6-11. Topic: The science of *Jurassic Park* and the upcoming sequel *Jurassic World*.

Program: *CBC Radio's Edmonton AM*, CBC Edmonton Radio, First broadcast: 2015-06-10. Topic: The science of *Jurassic Park* and the discoveries of the 2015 Dinosaur Park expedition.

Program: *Quirks & Quarks*, CBC Radio, First broadcast: 2015-04-11. Topic: New research on sexual dimorphism in oviraptorosaurs.

Program: *Alberta Prime Time CTV News*, CTV, First broadcast: 2015-04-02. Topic: New research on sexual dimorphism in oviraptorosaurs.

Program: *The Great Canadian Dinosaur Hunt*, History Channel, First broadcast: January 2015. Topic: Explanation of field excavation techniques, basic stratigraphy, and dinosaur biology in Dinosaur Provincial Park and Grand Prairie.

Journal: *Scientific America*, Published: 2015 February Issue (Volume 312 Number 2). Topic: New research on tyrannosaur and hadrosaur running adaptations.

Program: *Quirks & Quarks*, CBC Radio, First broadcast: 2014-11-15. Topic: New research on hadrosaur locomotion and tyrannosaur hunting strategies.

Program: *Calgary News with Rob Brown*, CBC Calgary Radio, First broadcast: 2014-11-10. Topic: New research on hadrosaur locomotion and tyrannosaur hunting strategies.

Program: *CBC Radio's Edmonton AM*, CBC Edmonton Radio, First broadcast: 2014-11-8. Topic: New research on hadrosaur locomotion and tyrannosaur hunting strategies.

Program: *Radio Canada International with Marc Montgomery*, RCI, First broadcast: 2014-11-07. Topic: New research on hadrosaur locomotion and tyrannosaur hunting strategies.

Program: *CTV Edmonton Morning News*, CTV, First broadcast: 2014-10-07. Topic: Promotion of Discovering Dinosaurs exhibition.

Program: *Shaw TV Edmonton Morning News*, Shaw, First broadcast: 2014-09-19. Topic: Promotion of Discovering Dinosaurs exhibition.

Program: *Quirks & Quarks*, CBC Radio, First broadcast: 2013-04-12
Topic: The new discovery of a swimming dinosaur trackway in China.

Program: *CTV Edmonton News*, CTV, First broadcast: 2013-03-01

Topic: Alberta fossils and promotion of the University of Alberta Museums Science Sunday event.

Program: *Shaw TV Edmonton News*, Shaw, First broadcast: 2013-02-26

Topic: Skeletal adaptations of mammalian insectivores and promotion of the University of Alberta Museums Science Sunday event.

Program: *CBC's Radio Active*, CBC Radio, First broadcast Date: 2013-01-10

Topic: The results of new original research on the feathers of, and tail functions of, oviraptorosaurs.

Program: *Quirks & Quarks*, CBC Radio, First broadcast: 2012-09-08

Topic: The results of new original research on the preserved stomach contents of two Chinese dinosaur specimens.

Program: *Quirks & Quarks*, CBC Radio, First broadcast: 2011-10-21

Topic: The results of new original research on the South American dinosaur *Carnotaurus*.

Program: *Edmonton Daily News*, CBC TV, First broadcast Date: 2011-10-15

Topic: The results of new original research on the South American dinosaur *Carnotaurus*.

Program: *Radio Active*, CBC Radio, First broadcast: 2011-10-15

Topic: The results of new original research on the South American dinosaur *Carnotaurus*.

Program: *As it Happens*, CBC Radio, First broadcast: 2010-11-19

Topic: The results of new original research on the tail of *Tyrannosaurus*.

Program: *Daily Planet*, Discovery Channel Canada, First broadcast: 2010-11-17

Topic: The results of new original research on the running abilities of carnivorous dinosaurs.

Field Experience

Cretaceous), Alberta, University of Alberta

2015 Senior Field Assistant, Vertebrate Paleontology, Dinosaur Park Formation (Late Cretaceous), Alberta, University of Alberta

2014 Senior Field Assistant, Vertebrate Paleontology, Dinosaur Park Formation (Late Cretaceous), Alberta, University of Alberta

2013 Senior Field Assistant, Vertebrate Paleontology, Wapiti Formation, Grande Prairie, Alberta, Philip J. Currie Dinosaur Museum

- 2013 Senior Field Assistant, Vertebrate Paleontology, Dinosaur Park Formation (Late Cretaceous), Alberta, University of Alberta
- 2012 Field Instructor and Grant Report Author, Vertebrate Paleontology, Wapiti Formation, Grande Prairie, Alberta, Grande Prairie Regional College
- 2012 Senior Field Assistant, Vertebrate Paleontology, Dinosaur Park Formation (Late Cretaceous), Alberta, University of Alberta
- 2011 Senior Field Assistant, Vertebrate Paleontology, Dinosaur Park Formation (Late Cretaceous), Alberta, University of Alberta
- 2010 Field Assistant, Vertebrate Paleontology, Nemegt Formation (Late Cretaceous), Mongolia, Korea-Mongolia Dinosaur Project
- 2010 Assistant Field Instructor, Vertebrate Paleontology, Horseshoe Canyon Formation (Late Cretaceous), Alberta, University of Alberta
- 2010 Senior Field Assistant, Vertebrate Paleontology, Dinosaur Park Formation (Late Cretaceous), Alberta, University of Alberta
- 2009 Assistant Field Instructor, Vertebrate Paleontology, Clear Fork Formation (Early Permian), Texas, Houston Museum of Natural Science
- 2009 Senior Field Assistant, Vertebrate Paleontology, Dinosaur Park Formation (Late Cretaceous), Alberta, University of Alberta
- 2009 Assistant Field Instructor, Vertebrate Paleontology, Horseshoe Canyon Formation (Late Cretaceous), Alberta, University of Alberta
- 2008 Senior Field Assistant, Vertebrate Paleontology, Lance Formation (Late Cretaceous), Wyoming, Paleon Museum
- 2007 Senior Field Assistant, Vertebrate Paleontology, Cloverly Formation (Early Cretaceous), Montana, Robert T. Bakker Dinosaur Expedition
- 2007 Senior Field Assistant, Vertebrate Paleontology, Lance Formation (Late Cretaceous), Wyoming, Paleon Museum
- 2007 Senior Field Assistant, Vertebrate Paleontology, Morrison Formation (Late Jurassic), Wyoming, Paleon Museum
- 2007 Student Researcher, Field Geology, Boston Basin (Late Ediacaran), Massachusetts, KECK Geology
- 2006 Student Researcher, Field Ecology, Galapagos Islands, Ecuador, Macalester College
- 2006 Student Researcher, Field Ecology, Tarangire National Park, Tanzania, University of Dar es Salaam
- 2005 Student Researcher, Vertebrate Paleontology, Lance Formation (Late Cretaceous), Wyoming, Paleon Museum
- 2005 Student Researcher, Vertebrate Paleontology, Cloverly Formation (Early Cretaceous), Montana, Robert T. Bakker Dinosaur Expedition
- 2005 Student Researcher, Vertebrate Paleontology, Judith River Formation (Late Cretaceous), Montana, Phillips County Museum
- 2004 Student Researcher, Research Assistant Vertebrate Paleontology, Lance Formation (Late Cretaceous), Wyoming, Paleon Museum
- 2003 Student Researcher, Vertebrate Paleontology, Morrison Formation (Late Jurassic), Wyoming, Paleon Museum

Museum Experience

Beginning in high school, I was hired as a summer camp activity designer and educator at the Colburn Earth Science Museum in Asheville, North Carolina. I have since worked as an exhibit designer, special event tour guide, and curatorial assistant at the Glenrock Paleon Museum, WY; the Henry Lepp Geology Museum at Macalester College, MN; the Dinosaur Walk Museum, MN; and the University of Alberta Museums' Enterprise Square Galleries.

Exhibit Curator, University of Alberta Museums, Edmonton, AB, T6G 2E1, Canada; *Dates of Employment: 4/14-7/14. Duties:* Primary author of exhibit text, floor plan designer, and specimen and art coordinator for "Discovering Dinosaurs," a 4,570-square-foot exhibit on University of Alberta paleontological research and the ecology of Cretaceous Alberta that broke gallery attendance records.

Exhibit Curator, University of Alberta Museums, Edmonton, AB, T6G 2E1, Canada; *Supervisor: Dates of Employment: 1/14-3/14. Duties:* Sole author of exhibit text and assisted design team as scientific consultant for "Dinostars," a 645-square-foot exhibit on recent dinosaur discoveries made by the University of Alberta.

Exhibit Designer, Glenrock Paleon Museum, Glenrock, WY; *Dates of Employment: 7/08-9/08. Duties:* Oversaw renovation of Cretaceous and Jurassic galleries featuring fossil specimens from the Morison and Lance formations; authored exhibit text; designed display layout and signage; and prepped specimens for public display.

Research Assistantship, Macalester College, Geology Department, Saint Paul, MN; *Dates of Employment: 1/08-5/08. Duties:* Authored and produced labels for fossil and geologic specimens on display in the Henry Lepp Geology Museum, updated specimen catalogs, designed laboratory experiments relating to dinosaur biomechanics.

Scientific Consultant and Program Designer, Dinosaur Walk Museum, Bloomington, MN; *Dates of Employment: 4/07-6/07. Duties:* Wrote supplementary exhibit text and designed visitor programs and tours, and presented at special events.

Docent and Volunteer Exhibit Guide, Science Museum of Minnesota, MN; *Dates of Employment: 9/06-12/06. Duties:* Guided visitors through a traveling exhibit on Chinese paleontology; operated hands-on fossil smart-cart; and supervised sandbox fossil dig pit.

Exhibit Designer, Colburn Earth Science Museum, Asheville, NC; *Dates of Employment: 8/05-12/05. Duties:* Sole author of exhibit text and layout designer for the temporary exhibit *Jurassic or Bust!*, which featured over 200 fossils and skeletal casts of dinosaurs and other prehistoric animals and occupied approximately 2,000 square feet.

Exhibit Guide and Curatorial Assistant, Glenrock Paleon Museum, Glenrock, WY; *Dates of Employment: 7/07-9/07. Duties:* Toured visitors through gallery and fossil preparation lab; assisted day-long public visits to excavation sites; and cataloged specimens.

Summer Camp Instructor and Program Designer, Colburn Earth Science Museum, Asheville, NC; *Dates of Employment:* 6/03-7/03, 6/04-7/04. *Duties:* Designed art projects, flume experiments, and various hands-on activities; taught lessons of geology and paleontology; and supervised weeklong summer camps for elementary school children.

Select Community Outreach

Organization: Calgary Comic and Entertainment Expo **Date:** 2016/04

Description: Invited speaker on the science behind the *Jurassic Park* franchise and on my role in the new History Channel series *The Bone Yard*

Organization: Greater Edmonton Teachers' Convention Association **Date:** 2016/02

Description: Commissioned speaker (\$1,000) on Alberta's dinosaur fauna and the application of paleontology as a tool for advancing public science literacy

Organization: McKernan School **Date:** 2015/11 **Description:** Guide through U of A laboratory tour and guest presenter on dinosaurs and fossils to fourth-grade participants

Organization: Let's Talk Science's Harry Potter Science Day **Date:** 2015/10

Description: Outreach presenter, organized the public showcasing of rare specimens from the University of Alberta Zoology Museum

Organization: Edmonton Comic and Entertainment Expo **Date:** 2015/09

Description: Presented to an audience of 300+ on the science behind the *Jurassic Park* franchise.

Organization: Centennial of the U of A Faculty of Agricultural, Life and Environmental Sciences Old Country Fair **Date:** 2015/07

Description: Invited presenter on Alberta's fossil resources and my discovery of a new ceratopsian specimen

Organization: TELUS World of Science Dark Matters **Date:** 2015/09

Description: Invited to present the talk "Tyrannosaurus rex: the sex lives of dinosaurs" to an age-restricted audience at a TELUS World of Science fundraiser

Organization: Rangeland Research Institute Field Day **Date:** 2015/07

Description: Invited presenter on my discovery of a new ceratopsian specimen

Organization: Dinosaur Provincial Park **Date:** 2015/06

Description: Invited guest presenter to park staff and visitors on current dinosaur research.

Organization: University of Alberta Lunch and Learn **Date:** 2014/12

Description: Tour guide of Discovering Dinosaurs exhibition

Organization: Society of Edmonton Atheists **Date:** 2014/12
Description: Invited speaker on Alberta's fossil heritage

Organization: Alberta Dinosaur Research Institute Annual Banquet Fundraiser
Date: 2014/11 **Description:** Invited banquet speaker

Organization: TELUS World of Science Digging Up the Past **Date:** 2014/11
Description: Invited host of hands-on fossil demonstrations for elementary students

Organization: Alberta Museums Association **Date:** 2014/11
Description: Tour guide of Discovering Dinosaurs exhibition and presenter on exhibition creation

Organization: Kids Festival of Ideas **Date:** 2014/11
Description: Guided tour of Discovering Dinosaurs exhibition for children

Organization: Nerd Nite (Edmonton Chapter) **Date:** 2014/11
Description: Invited speaker on the evolutionary influence of dinosaurs on modern ecosystems

Organization: University of Alberta Science and Engineering Discover-e Science Camp
Date: 2014/08
Description: Laboratory tour guide and guest presenter to third-grade participants on dinosaurs and fossils

Organization: Dinosaur Provincial Park, **Date:** 2014/06
Description: Invited guest presenter to park staff and visitors on current dinosaur research

Organization: Windsor Park School, Kindergarten, **Date:** 2014/3
Description: Invited guest presenter on fossils and dinosaur evolution

Organization: Bertha Kennedy Catholic Community School, 2nd/3rd grade **Date:** 2014/02
Description: Toured visiting school groups through the University of Alberta Paleontological Museum

Organization: Jurassic Forest, Edmonton Alberta Prehistoric Dinosaur Park, **Date:** 2013/6
Description: Invited Canada Day guest speaker on the results of two new studies on dinosaur stomach contents.

Organization: Windsor Park Elementary School, Kindergarten, **Date:** 2013/4
Description: Invited guest presenter on fossils and dinosaur evolution

Organization: University of Alberta Museums Science Sunday **Date:** 2013/3

Description: Activity developer and outreach presenter, organized the public showcasing of rare specimens from the University of Alberta Zoology Museum

Organization: The Alberta Paleontological Society **Date:** 2012/11

Description: Invited speaker on “Dragon Tails: An Asiatic Dinosaur Expedition and the Convergent Evolution of Winged Archosaurs”

Organization: Smoky Mountain High School, Sylva, NC, **Date:** 2012/8

Description: Spoke to biology, honors biology, and anatomy classes on paleontology and “the graduate school experience”

Organization: Discover Charter Elementary School, **Date:** 2012/8

Description: Spoke to first, second, and third grade classes about paleontology

Organization: University of Alberta Museums Science Sunday **Date:** 2012/3

Description: Activity developer and outreach presenter, organized the public showcasing of rare specimens from the University of Alberta Zoology Museum

Organization: Let’s Talk Science **Date:** 2009/9

Description: Program developer and presenter, traveled to elementary school classrooms in Edmonton and Calgary to give presentations and run activities on paleontology and geology

Organization: St. Gabriel the Archangel School **Date:** 2012/11

Description: Presented five 45-minute lectures on paleontology and dinosaur biology to 1st, 3rd, 4th, 7th, and 8th grade classes

Organization: Young Naturalist Club Edmonton **Date:** 2012/10

Description: Escorted 76 elementary school children on a guided tour of the University of Alberta paleontology laboratories and presenter on paleontological techniques on the fossil history of Edmonton

Organization: 22nd Canadian Paleontology Conference **Date:** 2012/9

Description: Invited speaker on “Gut Contents and Insights into the Paleoecology of Two Chinese Theropods”

Organization: Jurassic Forest, Edmonton Alberta Prehistoric Dinosaur Park 2012 Summer Lecture Series **Date:** 2012/7

Description: Invited guest speaker on “Duckbills on the Run”

Organization: Grand Prairie Regional College Paleontology Lecture Series **Date:** 2012/6

Description: Invited guest presenter on the ecology of duck-billed dinosaurs

Organization: Grand Prairie Regional College **Date:** 2012/6

Description: Fossil excavator and summer grant report writer.

Organization: Alberta Innovates - Health Solutions, Science in the Cinema **Date:** 2012/2
Description: Invited guest presenter on the science of the film *Jurassic Park* and the portrayal of science in the media.

Organization: Calgary City Teachers Convention **Date:** 2012/02
Description: Invited presenter on “Defending *T. rex*, perspectives of a young paleontologist.”

Organization: University of Alberta Palaeontological Society Biennial Public Symposium
Date: 2012/2
Description: Invited presenter on “Convergent evolution in the tails of pterosaurs and dromaeosaurs”

Organization: Jurassic Forest, Edmonton Alberta Prehistoric Dinosaur Park, 2011 Summer Lecture series **Date:** 2011/7
Description: Invited guest speaker on “Dinosaur tails: more than junk in the trunk”

Organization: Boy Scouts of America, Daniel Boone Council **Date:** 2011/7
Description: Traveled to Boy Scout summer camps throughout western North Carolina to present on geology and paleontology and served as a specialized geology merit badge counselor

Organization: Harry Potter Science, Magic & Medicine Day **Date:** 2011/12
Description: Volunteer organizer, curriculum designer, and speaker for a hands-on zoology course: “Myth Inspiring Creatures”

Organization: Jackson County Library, NC **Date:** 2011/7
Description: Invited guest presenter on paleontology

Organization: University of Alberta Paleontology Society **Date:** 2010/9-2011/6
Description: Organized monthly guest lecture series (featuring local and visiting researchers)

Organization: Balsam Mountain Preserve Summer Science Camps **Date:** 2010/6
Description: Invited guest presenter on paleontology and hands-on activity designer for fourth through sixth grade summer campers

Organization: Calgary Zoo’s Meet the Scientists Speaker Series **Date:** 2010/3
Description: Guest presenter on Alberta’s prehistoric history

Professional Affiliations

2006 – present Society of Vertebrate Paleontology

References

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