

## MICHAEL E. BURNS, PhD

Department of Biology, Jacksonville State University, 700 Pelham Road North, Jacksonville, Alabama, USA, 36265  
Email: [MBurns3@jsu.edu](mailto:MBurns3@jsu.edu); Telephone: 256-782-5036

### Professional Experience

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2015 – Assistant Professor, *Jacksonville State University*  
2015 – 2015 Ad Hoc Field Palaeontologist, *Aeon Paleontological Consulting Ltd.*  
2007 – 2015 Teaching Assistant, Department of Biological Sciences, *University of Alberta*  
2009 – 2015 Part-time Fossil Preparator and Laboratory Supervisor, Laboratory for Vertebrate Palaeontology, Department of Biological Sciences, *University of Alberta*  
2010 – 2010 Palaeontology Education Liaison, Grande Prairie Regional College, Grande Prairie, Alberta  
2005 – 2007 Teaching Assistant, Department of Geology, *Dickinson College*

### Education and Qualifications

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2015 Ph.D. Biological Sciences, University of Alberta, Edmonton, Alberta, Canada  
2010 M.Sc. Biological Sciences, University of Alberta, Edmonton, Alberta, Canada  
2007 B.S. Magna Cum Laude with Honors in Geology, Minor in Biology, Dickinson College, Carlisle, Pennsylvania

### Teaching

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Undergraduate Courses Taught: Comparative Vertebrate Anatomy, Human Anatomy and Physiology I and II, Introduction to Research in Biology, Introductory Biology I, Senior Seminar.

Graduate Courses Taught: Seminar in Evolutionary Biology, Seminar in Systematics.

Projects Supervised: 2 Graduate Non-thesis Independent Study, 1 Graduate Thesis, 6 Undergraduate Independent Study, 1 Undergraduate Internship.

### University Service

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2018 – Faculty Advisor, Secular Student Alliance at Jacksonville State University  
2017 – Graduate Teaching Assistant Coordinator, Biology Department, Jacksonville State University  
2017 – Faculty Advisor, Beta Beta Beta - TriBeta - Biology Honor Society, Jacksonville State University, Mu Phi Chapter.  
2017 – Committee Member, Graduate Program Committee, Biology Department, Jacksonville State University.

### Publications

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39 refereed publications. Google Scholar citations = 2542, H-index = 19. **Selected publications:**

Xing, LD, MG Lockley, Y Wang, MS Pole, H Klein, G Peng, X Xie, G Zhang, C Deng, ME Burns. 2017. New Middle Jurassic dinosaur track record from northeastern Sichuan Province, China. *Swiss Journal of Palaeontology*, 136:359–364.

Xing, LD, MG Lockley, L Zhang, H Klein, Y Zheng, G Peng, S Jiang, L Dai, ME Burns. 2017. First Jurassic dinosaur tracksite from Guizhou Province, China: morphology, trackmaker and paleoecology. *Historical Biology*:1-10.

Funston, GF, PJ Currie, and ME Burns. 2016. New elmisaurine specimens from Alberta, Canada, and their relationship to the Mongolian *Elmisaurus rarus*. *Acta Paleontologica Polonica* 61: 159–173.

Burns, ME, and SG Lucas. 2015. Biostratigraphy of ankylosaur osteoderms from New Mexico. *New Mexico. New Mexico Museum of Natural History Bulletin* 68:9–13.

Burns, ME, TA Tumanova, and PJ Currie. 2015. Postcrania of juvenile *Pinacosaurus grangeri* (Ornithischia: Ankylosauria) from the Upper Cretaceous Alagteeg Formation, Alag Teeg, Mongolia: implications for ontogenetic allometry in ankylosaurs. *Journal of Paleontology* 89: 168–182.

Burns, ME, and PJ Currie. 2014. External and internal structure of ankylosaur (Dinosauria; Ornithischia) osteoderms and their systematic relevance. *Journal of Vertebrate Paleontology* 34:835–851.

Burns, ME, and MJ Vavrek. 2014. Probable ankylosaur ossicles from the middle Cenomanian Dunvegan Formation of northwestern Alberta, Canada. *PLoS ONE* 9(5): e96075. doi:10.1371/journal.pone.0096075.}

Burns, ME, MK Vickaryous, and PJ Currie. 2013. Histological variability in fossil and recent alligatoroid osteoderms: systematic and functional implications. *Journal of Morphology* 274:676–686.

Burns, ME and RM Sullivan. 2011. A new ankylosaurid from the Upper Cretaceous Kirtland Formation, San Juan Basin, with comments on the diversity of ankylosaurids in New Mexico. *New Mexico Museum of Natural History Bulletin* 53:169–178.

Burns, ME and RM Sullivan. 2011. The tail club of *Nodocephalosaurus kirtlandensis* (Dinosauria: Ankylosauridae), with a review of ankylosaurid tail club morphology and homology. *New Mexico Museum of Natural History Bulletin* 53:179–186.

Burns, ME., PJ Currie, RL Sissons, and VM Arbour. 2011. Juvenile specimens of *Pinacosaurus grangeri* Gilmore, 1933 (Ornithischia: Ankylosauria) from the Late Cretaceous of China, with comments on the specific taxonomy of *Pinacosaurus*. *Cretaceous Research* 32:174–186.

Burns, ME. 2008. Taxonomic utility of ankylosaur (Dinosauria, Ornithischia) osteoderms: *Glyptodontopleta mimus* Ford, 2000—a test case. *Journal of Vertebrate Paleontology* 28:1102–1109.

### **Selected Grants and Fellowships**

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25 total grants, fellowships, and scholarships ranging from \$300–\$60,000

2017 Burns, M., M. Meade, J. Rayburn, and R. Watkins. R.E.A.L. Classroom Design Grant. *Bringing JSU's pre-health professional classroom labs into the 21st Century*. \$40,000–\$60,000.

2017 Tsikalas, S., J. Morgan, D. Perygin, D. White, and M. Burns. R.E.A.L. Classroom Design Grant. *Department of Chemistry & Geosciences and Department of Biology, Martin Hall Computer Lab, Room 203*. ~\$15,000.

2016 Faculty Research Grant, Jacksonville State University. *Bone histology associated with vertebral fusion in mosasaurs (Squamata: Mosasauridae): functional and developmental implications*. \$2,092.00.

2015 University Travel and Self-improvement Grant, Jacksonville State University. *Intraspecific Variation in Late Cretaceous Nodosaurids (Ankylosauria: Dinosauria)*. \$600.00.

2015 Roger Soderstrom Scholarship, Alberta Historical Resources Foundation and Alberta Lottery Fund. \$5,000.

2014 Graduate Scholarship in Vertebrate Palaeontology, Faculty of Graduate Studies and Research, University of Alberta. \$2,250.

### **Media Involvement**

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2018 Featured in Persons, WS. *Dinosaurs of the Alberta Badlands*. Harbour Publishing, Madeira Park, British Columbia, Canada. 144 pp.

2017 Media interview, “Dinosaurs' spiky armour may have been status symbol,” *Nature News*, 26 August.

2014 Media interview, “Dino Hunt Canada,” *History Channel Canada*, Season 1 Episode 1 “The Horned Dinosaur Mysteries”

2014 Press release with Victoria Arbour (*New dinosaur from New Mexico has relatives in Alberta: UAlberta scientists help create new family tree for armoured dinosaur with northern cousins*).