

Curriculum Vitae
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EDUCATIONAL AND PROFESSIONAL HISTORY

Higher Education

1993-1997	Ph.D.	Geological Sciences	University of Texas at Austin
1989-1993	M.A.	Geological Sciences	University of Texas at Austin
1985-1989	B.S.	Geology	University of Iowa

Professional and Academic Positions

2010 - present	Miller Teaching Fellow, University College, University of Iowa
2006 - present	Associate Professor, Department of Geoscience, University of Iowa
2001 - 2006	Assistant Professor, Department of Geoscience, University of Iowa
2001 - present	Research Associate, Vertebrate Paleontology Laboratory, Texas Memorial Museum
2001 - present	Research Associate, Department of Geology, Field Museum
2001 - present	Research Associate, Science Museum of Minnesota
1998 - 2000	Postdoctoral Research Scientist, Department of Geology, Field Museum

Honors and Awards

2011	Fellowship, Obermann Center for Advanced Studies, University of Iowa
2011	Career Development Award, College of Liberal Arts and Sciences, University of Iowa
2006	Dean's Scholar, College of Liberal Arts and Sciences, University of Iowa
2005	Collegiate Teaching Award, College of Liberal Arts and Sciences, University of Iowa
1996	Romer Prize, Society of Vertebrate Paleontology
1996	Stoye Award in General Herpetology, American Society of Ichthyologists and Herpetologists
1996	Best Student Technical Sessions Speaker, Geological Sciences, University of Texas at Austin
1989	W.A. Tarr Award, Sigma Gamma Epsilon – Earth Sciences Honor Society

Memberships

Society of Vertebrate Paleontology
International Union for the Conservation of Nature - Crocodile Specialist Group

TEACHING AT THE UNIVERSITY OF IOWA

Teaching Assignments

SEMESTER	ADVISEES		COURSE NUMBER and TITLE	Semester Hours	Enrollment	MEDIAN ACE SCORES	
	Undergrad	Grad				Overall excellent course	Instructor is effective
<i>Spr 2014</i>	4	5	12:142 Vertebrate Osteology and Phylogeny	3	9		
			12:225 Paleontology Seminar (with J. Adrain)	1-3	9		
			12:310 Research: Geoscience	3	1		
<i>Fall 2013</i>	5	6	12:007 The Age of Dinosaurs	4	153	5.74	5.86
			12:310 Research:Geoscience	1	1		
<i>Sum 2013</i>	4	5	12:310 Research:Geoscience	2	1		
			12:011 Senior Thesis in Geoscience	1	1		
<i>Spr 2013</i>	7	5	12:122 Evolution of the Vertebrates	3	29	5.95	5.96
			12:310 Research: Geoscience	1-2	2		
			12:011 Senior Thesis in Geoscience	1	1		
<i>Fall 2012</i>	13	6	12:007 The Age of Dinosaurs	4	161	5.78	5.87
			12:310 Research: Geoscience	2	2		
<i>Spr 2012</i>	10	8	12:122 Evolution of the Vertebrates	3	34	5.98	5.96
			12:142 Vertebrate Osteology and Phylogeny	3	6	5.88	6.00
			12:310 Research: Geoscience	1-9	6		
<i>Fall 2011</i>	10	8	12:007 The Age of Dinosaurs	4	7	5.60	5.79
			12:310 Research:Geoscience	2-9	249		
<i>Sum 2011</i>	10	8					
<i>Spr 2011</i>	12	9	12:310 Research:Geoscience	1-8	7		
<i>Fall 2010</i>	12	9	12:007 The Age of Dinosaurs	4	361	5.81	5.88
			12:029 First Year Seminar: Mirrors of Stone - Reconstructions of Prehistory and Reciprocal Illumination of Past and Present	1	10	5.75	5.60
			12:310 Research: Geoscience	1-7	4		
<i>Sum 2010</i>	12	7	12:310 Research: Geoscience	2	2		
<i>Spr 2010</i>	7	7	12:121 Evolution of the Vertebrates	3	38	5.95	5.97
			12:310 Research: Geoscience	1-8	6		
<i>Fall 2009</i>		8	12:007 The Age of Dinosaurs	4	345	5.70	5.85
			12:310 Research: Geoscience	1-8	6		
<i>Sum 2009</i>	11	7	12:310 Research: Geoscience	1-2	2		
<i>Spr 2009</i>	4	7	12:142 Vertebrate Osteology and Phylogeny	3	13	5.75	5.88
			12:310 Research: Geoscience	1-8	4		
<i>Fall 2008</i>	5	8	12:007 The Age of Dinosaurs	4	325	5.83	5.90
			12:310 Research: Geoscience	2-5	5		
<i>Sum 2008</i>	5	8					
<i>Spr 2008</i>	9	9	12:122 Evolution of the Vertebrates	3	36	5.86	5.92
			12:310 Research: Geoscience	3-4			
<i>Fall 2007</i>	9	9	12:007 Age of Dinosaurs	4	326	5.86	5.88
			12:310 Research: Geoscience	2-4	5		
			12:119 Directed Study	2	1		
<i>Sum 2007</i>		6					
<i>Spr 2007</i>		6	12:142 Vertebrate Osteology and Phylogeny (new course)	3	6	5.75	5.88
			12:119 Directed study		2		
			12:310 Research: Geoscience	5	1		
<i>Fall 2006</i>		6	12:007 The Age of Dinosaurs	4	241	5.78	5.89
			12:119 Directed Study		2		
<i>Spr 2006</i>		5	12:310 Research: Geoscience	2	2		
			12:001 Lectures in Earth History and Resources (with David Peate)	2	28	4.75	5.63
			12:003 Earth History and Resources (with David	4	159		

		Peate)				
		12:122 Evolution of the Vertebrates	3	34	5.83	5.90
		12:010 Honors Thesis in Geoscience	1	1		
		12:022 Research: Geoscience	2	2		
Fall 2005	4	12:007 The Age of Dinosaurs	4	199	5.80	5.87
		12:007 The Age of Dinosaurs honors lab		18	6.00	6.00
		12:119 Directed Study	3	1		
Sum 2005	3	12:119 Directed Study	2	1		
Spr 2005	3	12:119 Directed Study	1	1		
		12:319 Research: Geoscience	3	1		
Fall 2004	4	12:007 The Age of Dinosaurs	4	199	5.80	5.86
		12:007 The Age of Dinosaurs honors lab		15	5.75	5.95
		12:010 Honors Thesis in Geoscience	2	1		
		12:119 Directed Study	1	1		
		12:310 Research: Geoscience	1	1		
Sum 2004	4	12:119 Directed Study	1	1		
Spr 2004	4	12:122 Evolution of the Vertebrates	3	39	5.89	5.98
		12:119 Directed Study	1	1		
		12:310 Research: Geoscience	1	2		
Fall 2003	3	12:007 The Age of Dinosaurs	4	166	5.84	5.92
		12:007 The Age of Dinosaurs honors lab		11	5.93	6.0
		12:310 Research: Geoscience	4	1		
		12:119 Directed Study	2	1		
Sum. 2003	3					
Spr 2003	4	12:225 Paleontology Seminar	2	11	5.95	5.81
Fall 2002	4	12:007 The Age of Dinosaurs	4	193	5.8	5.91
		12:007 The Age of Dinosaurs honors lab		15	5.89	5.91
Sum. 2002	3					
Spr 2002	3	12:122 Evolution of the Vertebrates	3	18	5.93	6.0
		12:119 Directed Study	2	1		
		12:320 Research: Geoscience	1	2		
Fall 2001	3	12:007 The Age of Dinosaurs (new course)	4	205	5.50	5.77
		12:002 Lectures in Age of Dinosaurs	3	44		
		12:119 Directed Study	3	1		
Sum. 2001	1					
Spr 2001	1	12:122 Evolution of the Vertebrates	2	23	5.79	5.95
		12:119 Directed Study	2	1		

Students Supervised

<i>Objective</i>	<i>Name</i>	<i>Years</i>	<i>Outcome</i>	<i>Comments</i>
Ph.D.	Daniel Snyder	2001-2006	PhD 2006	Asst. Professor, Middle Georgia College
	Stephanie Drumheller	2005-2012	PhD 2012	Instructor, University of Tennessee
	Eric Wilberg	2006-2012	PhD 2012	Visiting Assistant Professor, Georgia Southern University
	Julia McHugh	2007-2012	PhD 2012	Research Assistant, Oklahoma State Univ. Health Sciences Center
	Marc Spencer	2007-2013.	PhD 2013	Research Instructor, Marshall University
	Eve Iversen	2007-2008		AGEP Fellowship recipient
	Jessica Miller-Camp	2010-pres.		Comprehensive exam passed
	Matthew Burkey	2012-pres.		
	Adam Cossette	2013-pres.		
	David Tarailo	2013-pres.		
M.S.	Courtney Stewart	2001-2003	MS 2003	
	Alan Turner	2001-2004	MS 2004	PhD Columbia, 2008; Asst. Professor, Stony Brook University
	Georgia Knauss	2003-2014	MS 2014	Project Manager, SWCA Environmental consultants
	Nathan Smith	2002-2005	MS 2005	PhD Chicago, 2011; Asst. Professor, Howard University
	Michelle Stocker	2005-2008	MS 2008	PhD, Univ. Texas, 2013; Department of Geology, Field Museum
	Eric Allen	2005-2012	MS 2012	

	Holly Berg	2006-2009	MS 2009	Administrator, American Gothic House
	M. Eugenia Gold	2009-2011	MS 2011	Pursuing PhD, Columbia
	Jennifer Nestler	2010-2012	MS 2012	Pursuing PhD, Stony Brook Univ.
	Rachel Guest	2012-pres.		
Visiting Graduate Students	Daniel Fortier	2009		Sandwich Scholar, Univ. Rio Grande do Sul (Brazil)
Undergraduate (thesis)	Holly Berg	2004-2006		Honors thesis
	Zachary Demanett	2012-pres.		
Undergraduate (academic)	Jeremy Brauckman	2007-2010	BS 2010	ES Biosciences
	Stuart Brothersen	2009-2011	changed major	ES undeclared
	Stephanie Browning	2010-2013	BS 2013	ES Biosciences
	Michelle Budniak	2009		ES undeclared
	Mary Bulger	2009-2010	changed major	ES undeclared
	Chase Burtness	2009-2011	BS 2011	ES Biosciences
	Jean Caligiuri	2007-2008	BS 2008	ES Biosciences
	Jami Campbell	2009-2011	changed major	ES undeclared
	David Ceresia	2009-2011	changed major	ES undeclared
	Kelly Collins	2009	changed major	ES undeclared
	Sarah Conzemius	2009-2013	BS 2013	ES undeclared
	Lauren Crowl	2007	BS 2009	ES Biosciences
	Kevin Cutsforth	2009-2012	BS 2012	ES Biosciences
	Alan Divishek	2009-2011	BS 2011	ES undeclared
	Will Downey	2009-2011	BS 2011	ES Biosciences
	Blake Hansen	2011-2012		ES Biosciences
	Joseph Honings	2010-2013	BS 2013	ES undeclared
	Jessica Hosseini	2010		ES undeclared
	Michael Iliff	2007-2008	changed track	ES Biosciences
	Elaine Jordan	2013-pres.		ES Biosciences
	Adam Kramer	2010-pres.		ES Geosciences
	Caitlin Kuempel	2010-2011	changed major	ES Biosciences
	Xiao-Ya Liu	2013-pres.		ES Biosciences
	James Lynch	2007-2008	BS 2008	ES Biosciences
	Benjamin Moore	2012-pres.		ES undeclared
	Christopher Mott	2010		ES Biosciences
	Amanda Nelson	2007-2008	changed major	ES Biosciences
	Roberto Partida	2011	changed major	ES Biosciences
	Michael Phillips	2011-2012		ES undeclared
	Noah Poppelreiter	2008-2009	changed major	ES Biosciences
	Blake Ray	2007-2009		ES Biosciences
	Elizabeth Richards	2010	changed track	ES Biosciences
	Luke Rodriguez	2011-2012	changed major	ES undeclared
	Amanda Rudolph	2007-2008	BS 2008	ES Biosciences
	Katie Shroyer	2011-2013	BA 2013	ES Biosciences
	Lee Southwick	2008-2009	BS 2011	ES Biosciences
	Benjamin Stahle	2007-2008	BS 2008	ES Biosciences
	Nicholas Van Buskirk	2011-2013		ES Biosciences
Honors Projects	Thomas Hegna	2001		12:122
	Gabrielle Parks	2009		12:007
	Elizabeth Zaretsky	2010		12:007

Other Thesis/Comprehensive Committee Membership

<i>Objective</i>	<i>Name</i>	<i>Years</i>	<i>Outcome</i>	<i>Comments</i>
Ph.D., non-Geoscience	Ahmed Moustafa	2009	PhD 2009	Thesis committee (Biology)
	Banoo Malik	2005-2007	PhD 2007	Thesis committee (Biology)
	David Procter	2006-2010	PhD 2010	Thesis committee (Anthropology)
	Dawn Simon	2004	PhD 2004	Thesis committee (Biology)
	Derek Peters	2007-2010	changed to MS	Thesis committee (Biology)
	Grant McCall	2006	PhD 2006	Thesis committee (Anthropology)
	Jessica White	2003-2006	PhD 2006	Thesis committee (Anthropology)
	Michael Peglar	2006-2007	Failed Comps	Thesis committee (Biology)
	Ph.D., Geoscience	John Pope	2006	PhD 2006
Guan Jian		2001-?	Departed (?)	Thesis committee (Semken)
Ng Tin-Wai		2002-2009	PhD 2009	Thesis committee (Adrain)

	R. Andres Lopez-Perez	2002-2005	PhD 2005	Thesis committee (Budd)
	Talia Karim	2005-2008	PhD 2008	Thesis committee (Adrain)
	Thomas Marshall	2004-2005	Exam passed	Exam committee (Heckel)
	Jik-Han Jung	2008-pres.		Thesis committee (Budd)
	Andy Grass	2011-pres.		Thesis committee (Budd)
	Matthew Tibbits	2011-pres.		Thesis committee (Budd)
	Neo McAdams	2011-pres.		Thesis committee (Cramer)
M.S., Geoscience	Brian Beck	2003-2005	MS 2005	Thesis committee (Budd)
	Holly Schultz	2004-2005	MS 2005	Thesis committee (Budd)
	Jamie Toennies	2002-2003	MS 2003	Thesis committee (Budd)
	Thomas Hegna	2005-2006	MS 2006	Thesis committee (Adrain)
	Andrew Grass	2008-2009	MS 2009	Thesis committee (Budd)
	Matthew Tibbits	2008-2009	MS 2009	Thesis committee (Budd)
	Jessica Camp	2008-2010	MS 2010	Thesis committee (Sims)
	Neo McAdams	2008-2010	MS 2010	Thesis committee (Adrain)
	Charles Monson	2006-2009	MS 2009	Thesis committee (Adrain)
	Tracy-Ann Champagne	2009-2011	MS 2011	Thesis committee (Budd)
	Sahale Casebolt	2010-2011	MS 2011	Thesis committee (Budd)
	Jeffrey Matzke	2011		Thesis committee (Adrain)
	Troy Fadiga	2007-2011	MS 2011	Thesis committee (Budd)

Instructional Materials Improvement Grants

2007	\$25,000, for purchase of dinosaur skeleton cast.
2001	(co-awarded to Jonathan Adrain); for purchase of computer equipment and teaching specimens.

SCHOLARSHIP

Publications (Refereed)

Professional Books and Monographs

•**Brochu, C.A.** 2003. Osteology of *Tyrannosaurus rex*: insights from a nearly complete skeleton and high-resolution computed tomographic analysis of the skull. *Society of Vertebrate Paleontology Memoir* 7:1-138.

••**Brochu, C.A.**, and R.A. Ketcham. 2003. Computed tomographic analysis of the *Tyrannosaurus rex* skull. *Society of Vertebrate Paleontology Memoir* 7:CD-ROM.

Rowe, T., •**C.A. Brochu**, K. Kishi, J. W. Merck, M.W. Colbert, E. Saglammer, and S. Warren (eds.), 1999. Cranial Morphology of *Alligator mississippiensis* and Phylogeny of Alligatoroidea. *Society of Vertebrate Paleontology Memoir* 6.

Rowe, T., ••**C.A. Brochu**, K. Kishi, J.W. Merck, Jr., and M.W. Colbert (eds.), 1999. *Alligator*: Digital Atlas of the Skull. *Society of Vertebrate Paleontology Memoir* 6: CD-ROM.

Journal Articles/Book Chapters

Drumheller, S.K., and ••**C.A. Brochu**. In press. A diagnosis of *Alligator mississippiensis* bite marks with comparisons to existing crocodylian data sets. *Ichnos*,

•**Brochu, C.A.**, and O. Jiménez-Vázquez. In press. Enigmatic crocodyliforms from the early Miocene of Cuba. *Journal of Vertebrate Paleontology*.

J. Vélez-Juarbe and ••**C.A. Brochu**. In press. Eocene crocodyliforms from Seven Rivers, Jamaica: implications for Neotropical crocodyliform biogeography and the status of *Charactosuchus* Langston 1965. R.W. Portell and D.P. Domning (eds.), *The Eocene Fossil Site of Seven Rivers, Jamaica: Geology, Paleontology, and Evolutionary and Biogeographic Implications*, Springer Verlag, Dordrecht.

- Brochu, C.A.** 2013. Phylogenetic relationships of Palaeogene ziphodont eusuchians and the status of *Pristichampsus* Gervais 1853. *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* 103:521-550.
 - Brochu, C.A.**, and G.W Storrs, 2012. A giant crocodile from the Plio-Pleistocene of Kenya, the phylogenetic relationships of Neogene African crocodylines, and the antiquity of *Crocodylus* in Africa. *Journal of Vertebrate Paleontology* 32:587-602.
 - Brochu, C.A.**, D.C. Parris, B.S. Brandstaff, R. Denton, and W.B. Gallagher. 2012. A new species of *Borealosuchus* (Crocodyliformes: Eusuchia) from the Late Cretaceous-Early Paleogene of New Jersey. *Journal of Vertebrate Paleontology* 32:105-116.
 - Brochu, C.A.** 2011. Phylogenetic relationships of *Necrosuchus ionensis* Simpson 1937 and the early history of caimanines. *Zoological Journal of the Linnean Society*, 163:S228-S256.
 - Brochu, C.A.** 2010. A new alligatorid from the Lower Eocene Green River Formation of Wyoming and the origin of caimans. *Journal of Vertebrate Paleontology* 30:1109-1126.
- Archibald, J.D., W.A. Clemens, K. Padian, T. Rowe, N. MacLeod, P.M. Barrett, A. Gale, P. Holroyd, H.-D. Sues, N.C. Arens, J.R. Horner, G.P. Wilson, M.B. Goodwin, •••**C.A. Brochu**, D.L. Lofgren, S.H. Hurlburt, J.H. Hartman, D.A. Eberth, P.B. Wignall, P.J. Currie, A. Weil, G.V.R. Prasad, L. Dingus, V. Courtillot, A.M. Milner, A. Milner, S. Bajpai, D.J. Ward, and A. Sahni. 2010. Cretaceous extinctions: multiple causes. *Science*, 328:973.
- Brochu, C.A.**, J.K. Njau, R.J. Blumenschine, and L.D. Densmore. 2010. A new horned crocodile from the Plio-Pleistocene hominid sites at Olduvai Gorge, Tanzania. *PLoS One* 5:e933, doi: 10.1371/journal.pone.0009333.
 - Brochu, C.A.**, J.R. Wagner, S. Jouve, C.D. Sumrall, and L.D. Densmore. 2009. A correction corrected: consensus over the meaning of Crocodylia and why it matters. *Systematic Biology*, 58:537-543.
 - Brochu, C.A.** 2009. Crocodylia. pp. 402-406 in S.B. Hedges and S. Kumar (eds.), *The Timetree of Life*, Oxford University Press, New York.
 - Brochu, C.A.**, and C.D. Sumrall. 2008. Phylogenetics and the integration of paleontology within the life sciences. . Pp. 185-204 in Kelley, P. H. and Bambach, R. K. (Eds), *From Evolution to Geobiology: Paleontology at the Start of a New Century*. Paleontological Society Papers Volume 14.
- Sumrall, C.D., and •••**C.A. Brochu**. 2008. Viewing paleobiology through the lens of phylogeny. Pp. 165-183 in Kelley, P. H. and Bambach, R. K. (Eds), *From Evolution to Geobiology: Paleontology at the Start of a New Century*. Paleontological Society Papers Volume 14.
- Brochu, C.A.** 2007. Morphology, relationships and biogeographic significance of an extinct horned crocodile (Crocodylia, Crocodylidae) from the Quaternary of Madagascar. *Zoological Journal of the Linnean Society*.150:835-863.
 - Brochu, C.A.** 2007. Systematics and taxonomy of Eocene tomistomine crocodylians from Britain and northern Europe. *Palaeontology*, 50:917-928.
- Vélez-Juarbe, J., •••**C.A. Brochu**, and H. Santos. 2007. A gharial from the Oligocene of Puerto Rico: Transoceanic dispersal in the history of a nonmarine reptile. *Proceedings of the Royal Society of London B*, 274:1245-1254.
- Brochu, C.A.**, A.M. Nieves-Rivera, J. Vélez-Juarbe, J.D. Daza-Vaca, and H. Santos. 2007. Tertiary crocodylians from Puerto Rico: evidence for Late Tertiary endemic crocodylians in the West Indies? *Geobios*, 40:51-59.
 - Brochu, C.A.** 2006. *Eosuchus* (Crocodylia, Gavialoidea) from the Lower Eocene of the Isle of Sheppey, England. *Journal of Vertebrate Paleontology*, 26:266-270.

- Brochu, C.A.** 2006. A new miniature horned crocodile from the Quaternary of Aldabra Atoll, western Indian Ocean. *Copeia*, 2006:149-158.
- McAliley, L.R., R.E. Willis, D.A. Ray, P.S. White, ••**C.A. Brochu**, and L.D. Densmore. 2006. Are crocodiles really monophyletic? – Evidence for subdivisions from sequence and morphological data. *Molecular Phylogenetics and Evolution*, 39:16-32.
- Brochu, C.A.** 2006. Osteology and phylogenetic significance of *Eosuchus minor* (Marsh 1870), new combination, a longirostrine crocodylian from the Late Paleocene of North America. *Journal of Paleontology*, 80:162-186.
- Brochu, C.A.** 2004. Alligatorine phylogeny and the status of *Allognathosuchus* Mook, 1921. *Journal of Vertebrate Paleontology*, 24:856-872.
- Brochu, C.A.** 2004. A new gavialoid crocodylian from the Late Cretaceous of eastern North America and the phylogenetic relationships of thoracosaurids. *Journal of Vertebrate Paleontology*, 24:610-633.
- Erickson, G.M., P.J. Makovicky, P.J. Currie, M. Norell, S. Yerby, and •••**C.A. Brochu**. 2004. Gigantism and comparative life-history parameters of tyrannosaurid dinosaurs. *Nature*, 430:772-775.
- Brochu, C.A.** 2004. Calibration age and quartet divergence date estimation. *Evolution*, 58:1375-1382.
- Brochu, C.A.**, and A.D. Rincon. 2004. A gavialoid crocodylian from the Lower Miocene of Venezuela. *Special Papers in Palaeontology*, 71:61-78.
- Brochu, C.A.**, C.D. Sumrall, and J.M. Theodor. 2004. When clocks (and communities) collide: estimating divergence time from molecules and the fossil record. *Journal of Paleontology*, 78:1-6.
- Brochu, C.A.** 2004. Patterns of calibration age sensitivity with quartet dating methods. *Journal of Paleontology*, 78:7-30.
- Brochu, C.A.** 2003. Phylogenetic approaches toward crocodylian history. *Annual Review of Earth and Planetary Sciences*, 31:357-397.
- Sumrall, C.D., and •••**C.A. Brochu**. 2003. Resolution, sampling, higher taxa and assumptions in stratocladistic analysis. *Journal of Paleontology*, 77:189-194.
- Brochu, C.A.**, M.L. Bouaré, F. Sissoko, E.M. Roberts, and M.A. O’Leary, 2002. A dyrosaurid (Crocodyliformes) braincase from Mali. *Journal of Paleontology*, 76:1060-1071.
- Brochu, C.A.** 2001. Progress and future directions in archosaur phylogenetics. *Journal of Paleontology*, 75:1185-1201.
- Brochu, C.A.**, and M.A. Norell, 2001. Time and trees: A quantitative assessment of temporal congruence in the bird origins debate. pp. 511-535 in J.A. Gauthier and L.F. Gall (eds.), *New Perspectives on the Origin and Early Evolution of Birds*, Peabody Museum of Natural History, New Haven, CT.
- Brochu, C.A.**, 2001. Congruence between physiology, phylogenetics, and the fossil record on crocodylian historical biogeography. pp. 9-28 in G. Grigg, F. Seebacher and C.E. Franklin (eds.), *Crocodylian Biology and Evolution*, Surrey Beatty and Sons, Sydney.
- Brochu, C.A.**, and L.D. Densmore, 2001. Crocodile phylogenetics: A review of current progress. pp. 3-8 in G. Grigg, F. Seebacher and C.E. Franklin (eds.), *Crocodylian Biology and Evolution*, Surrey Beatty and Sons, Sydney.
- Brochu, C.A.** 2001. Crocodylian snouts in space and time: phylogenetic approaches toward adaptive radiation. *American Zoologist*, 41:564-585.

- Brochu, C.A.**, and C.D. Sumrall, 2001. Phylogenetic nomenclature and paleontology. *Journal of Paleontology*, 75:754-757.
- Sumrall, C.D., ••**C.A. Brochu**, and J.W. Merck, 2001. Global lability, regional resolution, and majority-rule consensus bias. *Paleobiology*, 27:254-261.
- Brochu, C.A.**, H.N. Bryant, J.M. Theodor, M.A. O'Leary, J.M. Adrain, and C.D. Sumrall. 2001. Modern phylogenetics in paleontology: comments on Vermeij. *Paleobiology*, 27:176-178.
- Brochu, C.A.**, and P.D. Gingerich, 2000. New tomistomine crocodylian from the middle Eocene (Bartonian) of Wadi Hitan, Fayum Province, Egypt. *Contributions from the Museum of Paleontology, University of Michigan*. 30: 251-268.
- Sumida, S.S., and ••**C.A. Brochu**, 2000. Phylogenetic context for the origin of feathers. *American Zoologist*, 40:486-503.
- Brochu, C.A.**, 2000. Phylogenetic relationships and divergence timing of *Crocodylus* based on morphology and the fossil record. *Copeia*, 2000:657-673.
- Buckley, G.A., ••**C.A. Brochu**, D.W. Krause, and D. Pol, 2000. A pug-nosed crocodyliform from the Late Cretaceous of Madagascar. *Nature*, 405:941-944.
- Brochu, C.A.**, 2000. A digitally-rendered endocast for *Tyrannosaurus rex*. *Journal of Vertebrate Paleontology*, 20:1-6.
- Brochu, C.A.**, and M.A. Norell, 2000. Temporal congruence and the origin of birds. *Journal of Vertebrate Paleontology*, 20:197-200.
- Brochu, C.A.**, 2000. Fossil crocodylians from the Eocene Devil's Graveyard and Canoe Formations, Brewster County, Texas. *Texas Journal of Science*, 52:3-12.
- Brochu, C.A.**, 2000. *Borealosuchus* (Crocodylia) from the Paleocene of Big Bend National Park, Texas. *Journal of Paleontology*, 74:181-187.
- Brochu, C.A.**, 1999. Taxon sampling and reverse successive weighting. *Systematic Biology*, 48:808-813.
- Brochu, C.A.**, 1999. Phylogeny, systematics, and historical biogeography of Alligatoroidea. *Society of Vertebrate Paleontology Memoir* 6:9-100.
- Rowe, T., •••**C.A. Brochu**, K. Kishi, J. Merck, and M.W. Colbert, 1999. Introduction to *Alligator*: Digital atlas of the skull. *Society of Vertebrate Paleontology Memoir* 6:1-8.
- Erickson, G.M., and ••**C.A. Brochu**, 1999. How the "terror crocodile" grew so big. *Nature*, 398:205-206.
- Buckley, G.A., and ••**C.A. Brochu**, 1999. An enigmatic new crocodile from the Upper Cretaceous of Madagascar. pp. 149-175 in D.M. Unwin (ed.), *Special Papers in Palaeontology 60: Cretaceous Fossil Vertebrates*, Palaeontological Association, London.
- Brochu, C.A.**, 1997. A review of "*Leidyosuchus*" (Crocodyliformes, Eusuchia) from the Cretaceous through Eocene of North America. *Journal of Vertebrate Paleontology*, 17:679-697.
- Brochu, C.A.**, 1997. Fossils, morphology, divergence timing, and the phylogenetic relationships of *Gavialis*. *Systematic Biology*, 46:479-522.
- Brochu, C.A.**, 1997. Synonymy, redundancy, and the name of the crocodile stem-group. *Journal of Vertebrate Paleontology*, 17:448-449.
- Brochu, C.A.**, 1996. Closure of neurocentral sutures during crocodylian ontogeny: implications for maturity assessment in fossil archosaurs. *Journal of Vertebrate Paleontology*, 16:49-62.

•**Brochu, C.A.**, 1995. Heterochrony in the crocodylian scapulocoracoid. *Journal of Herpetology*, 29:464-468.

Publications (Non-Refereed)

Ross, J.P., K. Vliet, M. Shirley, **C.A. Brochu**, and F.W. King. 2012. New taxonomic and nomenclatural proposals called into doubt. *Crocodyle Specialist Group Newsletter*, 31:5.

Brochu, C.A. 2012. Let me introduce you - wait until you meet these crocodiles! *Dig* [archaeology magazine for elementary school students], 14:20-23.

Brochu, C.A. 2011. Review of J. Thorburnarson and X. Wang, *The Chinese Alligator: Ecology, Behavior, Conservation, and Culture*. *Copeia*, 2011:608-609.

Brochu, C.A. 2010. Evolution of tomistomines. Pp. 72-73 in Y. Kobayashi and E. Taro, [*Extinct Giant Fossil Animal Toyotamaphimeia – Japanese Crocodile that Survived the Age of Dinosaurs*]; Museum of Osaka University Series 5, Japan. (Book title in Japanese.)

Brochu, C.A. 2009. Review of P. Larson and K. Carpenter (eds.), *Tyrannosaurus rex: The Tyrant King*. *Quarterly Review of Biology*, 84:403-404.

Brochu, C.A. 2003. Lessons from a Tyrannosaur: The ambassadorial role of paleontology. *Palaios*, 18:475-476.

Brochu, C.A. 2003. Review of D. R. Schwimmer, *King of the Crocodylians: The Paleobiology of Deinosuchus*. *Palaios*, 18:79-82.

Brochu, C.A. 2000. Crocodylians. Pp. 317-322 in R. Singer (ed.), *Encyclopedia of Paleontology*, Fitzroy Dearborn Publishers, Chicago.

Brochu, C.A. 2000. Crocodylomorphs. Pp. 322-328 in R. Singer (ed.), *Encyclopedia of Paleontology*, Fitzroy Dearborn Publishers, Chicago.

Brochu, C.A., J. Long, C. McHenry, J.D. Scanlon, and P.M.A. Willis (managing editor, M.K. Brett-Surman). 2000. *Time-Life Guides: Dinosaurs*. Time-Life Books/Weldon-Owen Pty Ltd., Sydney.

Rieppel, O., and **C. Brochu**. 1999. Paleontologists defend dinosaur mount. *In The Field*, 70:8.

Research Grants (External)

2013–2016 *Collaborative Research: Neosuchian Evolution and Crocodylian Origins: 190 Million Years of Biodiversity and Biogeographic Response to Climate and Tectonics* (NSF DEB – Phylogenetic Systematics; co-PI A. Turner; \$166,888)

2010–2011 *Dissertation Research: Investigation of Character Non-independence in Morphological Datasets: Convergence in Long-snouted Crocodylomorphs* (NSF DEB – Systematic Biology and Biodiversity Inventories; co-PI with Eric Wilberg; \$14,135)

2006-2009 *Computerization of the University of Iowa Paleontology Repository* (NSF DBI – Biological Research Collections 0544235; PI A.F. Budd; additional co-PIs J.M. Adrain, T. Adrain); \$284,724.00.

2005-2010 *Synthetic Approaches Toward Crocodylian Phylogeny* (NSF DEB 0444133; co-PI L.D. Densmore; \$299,231.00)

2002-2008 *Collaborative Research: Archosaur Phylogeny - A Total Evidence Approach at Fine Taxonomic Levels* (NSF DEB 0228648); \$22,785.00 (UI portion only).

1994 *Studies of Fossil and Recent Crocodylians* (Paleontological Society Grant; \$500.00).

- 1991 *Studies of Recent Crocodylians* (American Museum of Natural History Collections Use Grant; \$500.00).

Research Grants (Internal)

- 2004-2005 Carver Scientific Research Initiative Grant: Sequencing of a Bone Structural Protein Gene in Crocodylians (\$7909.00)
- 2003 Old Gold Fellowship (\$6000.00)
- 2002 Old Gold Fellowship (\$5000.00)

Conference Presentations With Abstract

Invited Symposium Presentations (platform) with Abstract

- 2013 Systematics of Eocene ziphodont crocodyliforms of the North American Western Interior. Geological Society of America South-Central Regional Meeting, Austin. Paleontology of Texas: A Session in Honor of Wann Langston, Jr. *Geological Society of America Abstracts with Program* 45:83.
- 2013 Recent advances in the understanding of crocodylian origins and phylogeny. PaleoFest 2013 Symposium – The End of the Dinosaurs; Changes in the Late Cretaceous Biosphere, Rockford, IL.
- 2012 Southern northern crocodiles: *Borealosuchus* from the Campanian of Alabama and the early biogeographic history of crocodylians in North America. Cretaceous Faunas of Appalachia: Systematics, Paleoecology, and Taphonomy, Society of Vertebrate Paleontology, Raleigh. *Journal of Vertebrate Paleontology* 32:68A-69. (with R. Denton, B. Grandstaff, D. Parris, and J. Schein)
- 2012 Present as palimpsest: the importance of fossils in a phylogenetic context to the recovery of historical pattern. Insights from the Fossil Record into the Evolution of Extant Amphibians and Reptiles, 7th World Congress of Herpetology, Vancouver.
- 2011 Sampling strategies and the approaching paradigm shift in crocodyliform phylogenetics and crocodylian origins. Second Symposium on Crocodyliform Evolution, 4th Latin American Congress of Vertebrate Paleontology, San Juan, Argentina. *Ameghiniana* 48:R78 (with A. Turner).
- 2011 Neosuchian phylogeny and a reevaluation of the crocodyliform *Shamosuchus* from the Cretaceous of Asia. Second Symposium on Crocodyliform Evolution, 4th Latin American Congress of Vertebrate Paleontology, San Juan, Argentina. *Ameghiniana* 48:R94. (first author - A. Turner).
- 2009 Phylogenetic uncertainty and calibration choice: the importance of comprehensive phylogenetic analyses and consideration of competing estimates. Molecular Tools in Paleobiology: Trees, Clocks and Linking Geno- with Phenotype, Society of Vertebrate Paleontology, Bristol, UK. *Journal of Vertebrate Paleontology* 29:70A.
- 2009 Closing the gator gap: crocodylians from the Uintan of the western North American interior. Paleobiology and Paleontology of Mammals During the Uintan North American Land Mammal Age, 9th North American Paleontological Convention, Cincinnati. *Cincinnati Museum Center Contributions* 3:59-60.
- 2008 South America in the global context of Cenozoic crocodyliform historical biogeography. Crocodyliform Evolution: Diversity and Phylogenetic Relationships, 3rd Latin American Congress of Vertebrate Paleontology, Neuquen, Argentina. *Congreso Latinoamericano de Paleontología de Vertebrados Libro de Resúmenes* p. 35.
- 2008 The role of paleontological information in the conservation of crocodylians. The Biology and Management of Crocodylians, 6th World Congress of Herpetology, Manaus, Brazil. Abstract on CD-ROM.

- 2007 A paleontological temporal framework for comparative genomic studies of crocodylians. 3rd International Workshop on Crocodylian Genetics and Genomics, Smithsonian Tropical Research Institute, Panama City, Panama. biogeodb.stri.si.edu/bioinformatics/crocodylian/abstract.pdf
- 2007 Are crocodiles really monophyletic? DNA evidence for subgroups in *Crocodylus*. 3rd International Workshop on Crocodylian Genetics and Genomics, Smithsonian Tropical Research Institute, Panama City, Panama. (with L.R. McAliley [speaker], R.E. Willis, D.A. Ray, P.S. White, and L.D. Densmore.) biogeodb.stri.si.edu/bioinformatics/crocodylian/abstract.pdf
- 2006 Empirical exploration of calibration sensitivity in molecular dating methods – when are multiple-calibration methods most effective? Bringing Together the Living and Dead: Integrating Extant and Fossil Biodiversity in Evolutionary Studies, Botanical Society of America, California State University-Chico. *Botanical Society of America Abstracts of Scientific Meeting 2006*, p. 18.
- 2005 Phylogenetic approaches toward crocodylian history. Second Symposium of Graduate Research in Biology, University of Puerto Rico, Rio Piedras. *Integrating Scales in Biology: A Holistic Approach*, UPR, p 16.
- 2004 Phylogenetic nomenclature for Crocodylia: a success story in the face of phylogenetic uncertainty. First International Phylogenetic Nomenclature Meeting, Museum National d’Histoire Naturelle, Paris. *First International Phylogenetic Nomenclature Meeting Abstracts*, ed. M. Laurin, MNHN, p. 29.
- 2001 Phylogenetic revision and fossil divergence estimates: when is a conflict not a conflict? When Clocks Collide: Calibrating Lineage Divergences from Fossils and Molecules, North American Paleontological Convention, Berkeley (with J.M. Theodor and C.D. Sumrall). *PaleoBios* 21(supp. to 2):35.
- 2001 The impact of fossil calibration choice in molecular divergence estimation. When Clocks Collide: Calibrating Lineage Divergences from Fossils and Molecules, North American Paleontological Convention, Berkeley. *PaleoBios* 21(supp. to 2):35.
- 2001 Tyrannosaurid systematics and the phylogenetic position of Tyrannosauridae within Theropoda. A. Watson Armour III Symposium, Field Museum, Chicago. *The Paleobiology and Phylogenetics of Large Theropods*, Field Museum, p. 11.
- 2001 Beyond mere morphology: reflections of a computed tomography addict. Science, Entertainment, and Teaching: Bringing Cutting Edge Biology to the Public Teaching Community, Society of Integrative and Comparative Biology, Chicago. *SICB 2001 Annual Meeting Final Program and Abstracts* p. 125.
- 2000 The importance of phylogeny in interpreting the crocodylian fossil record. Beyond Reconstruction: Using Phylogenies to Test Hypotheses About Vertebrate Evolution, Society of Integrative and Comparative Biology/Society of Vertebrate Paleontology Joint Symposium, Atlanta. *American Zoologist* 39(5):48a. (With P.M.A. Willis.)
- 1998 The Visible Alligator: A digital atlas of alligator craniology based on high-resolution CT imagery. Three-Dimensional Scanning and Computer Modelling of Vertebrate Fossils, Society of Vertebrate Paleontology Symposium, Snowbird. *Journal of Vertebrate Paleontology* 18:29A. (With T. Rowe, J.W. Merck, M.W. Colbert, and K. Kishi.)
- 1998 Concordance among physiology, phylogenetics, and the fossil record on crocodylian biogeography. Crocodylian Biology and Evolution, University of Queensland, Brisbane, QLD, Australia. *Programme and Abstracts*, p. 18.
- 1998 Differing temporal expectations for crocodylian phylogeny: molecules versus stratigraphy. A. Watson Armour III Spring Symposium. Chicago. *Combining Molecular and Paleontological Data*

- *A Twofold Approach for Documenting Major Evolutionary Patterns*, ed. J. Bates and P. Wagner, Field Museum, p. 1.

Volunteered Presentations (Platform)

- 2013 A new, phylogenetically significant alligatoroid from the Late Cretaceous (Campanian) of México. Society of Vertebrate Paleontology, Los Angeles. *Journal of Vertebrate Paleontology* 33:94A-95A. (with W. Langston and T. Rowe)
- 2013 A new basal eusuchian crocodile from the Upper Cretaceous of Lo Hueco (Cuenca, Spain). VI Jornadas Internacionales sobre Paleontología de Dinosaurios y su Entorno, Burgos, Spain. *Libro de Resúmenes*, pp. 96-97. (with I.F. Narvaez [speaker], F. Ortega, and F. Escasco).
- 2013 Spatial and temporal shifts in Paleogene crocodyliform diversity and a new globidont alligatoroid from the Middle Eocene of West Texas. Texas Academy of Science, Kerrville. (With M. Stocker and E. Kirk)
- 2012 Spatial and temporal shifts in Paleogene crocodyliform diversity and a new globidont alligatoroid from the Middle Eocene of West Texas. Society of Vertebrate Paleontology, Raleigh. *Journal of Vertebrate Paleontology* 32:180A. (With M. Stocker and E. Kirk)
- 2011 The myth of the living fossil: basal crown group relationships, reversing polarities, and the restoration of the ancestral crocodylian. Society of Vertebrate Paleontology, Las Vegas. *Journal of Vertebrate Paleontology* 31:78A. (With A. Turner, E. Allen, and E. Wilberg.)
- 2011 The giant horned crocodiles that ate our ancestors and their phylogenetic and biogeographic implications. American Society of Ichthyologists and Herpetologists, Minneapolis. *Joint Meeting of Ichthyologists and Herpetologists 2011 Abstract Book*, pp. 52-53.
- 2010 Semantics and phylogenetic arguments in the debate over the origins of Crinoidea. Geological Society of America/Paleontological Society, Denver. *Geological Society of America Abstracts with Programs* 42:533. (With C. Sumrall)
- 2010 Crocodylians from the Uintan of the western North American Interior, response to climate change, and the origins of *Alligator*. Society of Vertebrate Paleontology, Pittsburgh. *Journal of Vertebrate Paleontology* 30:65A. (With D. Snyder)
- 2010 A reevaluation of the crocodyliform *Acynodon* from the Late Cretaceous of Europe. Society of Vertebrate Paleontology, Pittsburgh. *Journal of Vertebrate Paleontology* 30:178A (With A. Turner)
- 2008 Giant horned crocodiles from the Late Cenozoic of Africa: stealth diversity revisited. Society of Vertebrate Paleontology, Cleveland, OH. *Journal of Vertebrate Paleontology* 27:57A
- 2008 Phylogeny-based diversity patterns with and without fossils: the limits of historical inference without historical data. Paleontological Society/Geological Society of America, Houston, TX (theme session: Phylogenetic Perspectives on Assembling the Tree of Life in Deep Time). *Geological Society of America Abstracts with Programs* 40:203.
- 2007 Systematics and phylogenetic relationships of hoofed crocodiles (Pristichampsinae). Society of Vertebrate Paleontology, Austin, TX. *Journal of Vertebrate Paleontology*, 27:53A.
- 2006 The phylogenetic relationships of gavialoid crocodylians: new fossils, new genes, old conflicts. Society of Vertebrate Paleontology, Ottawa, ON. *Journal of Vertebrate Paleontology*, 26:45A. (With R. E. Willis and L. D. Densmore)
- 2006 Empirical exploration of calibration sensitivity in molecular dating methods – maximizing the role of paleontology in molecular evolution. Second International Paleontological Congress, Beijing.

Ancient Life and Modern Approaches, ed. Q. Yang, Y. Wang, and E.A. Weldon, University of Science and Technology of China Press, p. 138.

- 2006 Are crocodiles really monophyletic? Evidence for subdivisions from sequence and morphological data. American Society of Ichthyologists and Herpetologists, New Orleans, LA. www.asih.org/annualmeetings (With L. R. McAliley, R. E. Willis [speaker], D. A. Ray, P. S. White, and L. D. Densmore).
- 2005 Stealth diversity in the cradle of humanity: crocodylid endemism in Africa and the western Indian Ocean during the Neogene. Society of Vertebrate Paleontology, Mesa, AZ. *Journal of Vertebrate Paleontology* 24:39A
- 2004 Tyrannosaurid life-history parameters and the evolution of gigantism in *Tyrannosaurus*. Society of Vertebrate Paleontology, Denver. *Journal of Vertebrate Paleontology* 24:55A. (with G. Erickson [speaker], P. Makovicky, P. Currie, M. Norell, and S. Yerby)
- 2004 Alligatorine phylogeny, the law of the unspecialized, and the status of *Allognathosuchus* Mook, 1921. Society of Vertebrate Paleontology, Denver. *Journal of Vertebrate Paleontology* 24:41A-42A.
- 2003 Calibration sensitivity and quartet dating: systematic under- and overestimation of divergence times from molecular data. Society of Vertebrate Paleontology, St. Paul, MN. *Journal of Vertebrate Paleontology* 23:36A. (with J. M. Theodor.)
- 2002 *Thecachampsoides minor* and early gavialoid history: coastal Atlantic origins of longirostrine crocodylians. Society of Vertebrate Paleontology, Norman, OK. *Journal of Vertebrate Paleontology* 22:39A.
- 2002 Discovery of continental mammals and other vertebrates of biogeographic significance in the Early Miocene of Venezuela. Society of Vertebrate Paleontology, Norman, OK. *Journal of Vertebrate Paleontology* 22:102A. (with M. R. Sánchez-Villagra [speaker], R.J. Asher, R.H. Madden, A.D. Rincon, and E.M. Weston.)
- 2002 Discovery of continental mammals and other vertebrates of biogeographic significance in the Early Miocene of Venezuela. 50th Symposium of Vertebrate Palaeontology and Comparative Anatomy, Cambridge, UK, September 2002. (with M. R. Sánchez-Villagra [speaker], R.J. Asher, R.H. Madden, A.D. Rincon, and E.M. Weston.)
- 2002 Paleopathology in a mature specimen of *Tyrannosaurus rex*. First International Palaeontological Congress, Sydney, NSW, Australia, July 2002. *Abstracts - Geological Society of Australia*, 68:134. (with E.A. Rega, speaker)
- 2001 Phylogenetic perspectives on temporal diversity patterns in crocodylians. Society of Vertebrate Paleontology, Bozeman, MT. *Journal of Vertebrate Paleontology* 21:36A.
- 2001 Paleopathology of a mature *Tyrannosaurus rex* skeleton. Society of Vertebrate Paleontology, Bozeman, MT. *Journal of Vertebrate Paleontology* 21:92A. (with E.A. Rega, speaker)
- 2001 Evidence for thoracic breathing in *Tyrannosaurus rex*, based on recent anatomical and pathological evidence from “Sue.” 6th International Congress of Vertebrate Morphology, Jena. *Journal of Morphology* 248(3):274. (with E.A. Rega, speaker)
- 2000 Crocodylian snouts in space and time: phylogenetic approaches toward mapping the temporal fates of adaptive radiations. Geological Society of America/Paleontological Society, Reno (Paleontological Society Theme Session – Evolving Biodiversity: From the Field to the Database). *Geological Society of America Abstracts with Programs* 32(7):A-132.
- 2000 Postcranial axial morphology of a large *Tyrannosaurus rex* skeleton. Society of Vertebrate Paleontology, Mexico City. *Journal of Vertebrate Paleontology* 20:32A.

- 1999 Majority-rule consensus and bootstrap bias - global lability and regional resolution. Geological Society of America/Paleontological Society, Denver. *Geological Society of America Abstracts with Programs* 31(7):A-138. (with C.D. Sumrall and J.W. Merck)
- 1999 High-resolution CT analysis of a *Tyrannosaurus rex* skull. Society of Vertebrate Paleontology, Denver. *Journal of Vertebrate Paleontology* 19:34A.
- 1999 A bizarre crocodyliform from the Late Cretaceous of Madagascar: Systematics, biogeography, and paleoecology. Society of Vertebrate Paleontology, Denver. *Journal of Vertebrate Paleontology* 19:34A. (with G.A. Buckley [speaker], L.L. Randriamiamanana, and D.W. Krause)
- 1998 There is no temporal paradox in bird origins. Society of Vertebrate Paleontology, Snowbird. *Journal of Vertebrate Paleontology* 18:29A. (with M.A. Norell)
- 1998 Heterochronic evolution of gigantism in the Cretaceous alligatoroid *Deinosuchus*. Society of Vertebrate Paleontology, Snowbird. *Journal of Vertebrate Paleontology* 18:40A. (with G.M. Erickson, speaker)
- 1997 Phylogeny, systematics, and historical biogeography of Alligatoroidea. Society of Vertebrate Paleontology, Chicago. *Journal of Vertebrate Paleontology* 17:34A.
- 1997 Hyperdiversity and the paleobiogeographic implications of Late Cretaceous crocodyliforms of Madagascar. Society of Vertebrate Paleontology, Chicago. *Journal of Vertebrate Paleontology* 17:35A. (with G.A. Buckley [speaker] and D. Krause)
- 1997 The divergence timing and historical biogeography of *Crocodylus*: Preliminary insights from phylogenetics and the fossil record. American Society of Ichthyologists and Herpetologists, Seattle. *ASIH Abstracts with Programs*, p. 81.
- 1996 Fossils as pruning shears: Branch length and the phylogenetic systematics of Crocodylia. Society of Vertebrate Paleontology, New York. *Journal of Vertebrate Paleontology* 16:24A.
- 1996 Campanian crocodyliforms from Madagascar and their biogeographical implications. Society of Vertebrate Paleontology, New York. *Journal of Vertebrate Paleontology* 16:24A. (with G.A. Buckley, speaker)
- 1996 Phylogenetic systematics and origin of Gavialoidea: The contribution from fossils. Society for the Study of Amphibians and Reptiles, Lawrence. *SSAR Program Notes and Abstracts*, p. 65.
- 1996 Phylogenetic systematics and taxonomy of Crocodylia: A morphological perspective. American Society of Ichthyologists and Herpetologists, New Orleans. *ASIH Abstracts with Programs*, p. 93.
- 1996 New eusuchian crocodyliforms from the Paleocene of West Texas: Biogeographic and phylogenetic implications. Geological Society of America South-Central Regional Meeting, Austin. *Geological Society of America Abstracts with Programs* 28(1):6.
- 1996 The effects of multiple primitive states and single-taxon outgroups on parsimony-based phylogenetic analyses. Geological Society of America South-Central Regional Meeting, Austin. *Geological Society of America Abstracts with Programs* 28(1):65. (with C.D. Sumrall [speaker] and J. W. Merck)
- 1995 Phylogenetic relationships of basal eusuchians and the origin of *Crocodylus*. Society of Vertebrate Paleontology, Pittsburgh. *Journal of Vertebrate Paleontology* 15:20A.
- 1992 Late-stage ontogenetic changes in the postcranium of crocodylians. Society of Vertebrate Paleontology, Toronto. *Journal of Vertebrate Paleontology* 12:19A.

Volunteered Presentations (Poster)

- 2013 New light on the evolutionary relationships between “thoracosaurus” and modern gharials: evidence from a new gavialoid from the Late Cretaceous of Chiapas, México. Society of Vertebrate Paleontology, Los Angeles. *Journal of Vertebrate Paleontology* 33:101A. (with G. Carbot-Chanona, A. Buscalioni, and V.H. Reynoso Rosales)
- 2011 Fleshing out the neosuchian tree: a reevaluation of the crocodyliform *Shamosuchus* from the Cretaceous of Asia. Society of Vertebrate Paleontology, Las Vegas. *Journal of Vertebrate Paleontology* 31:207A. (With A. Turner.)
- 2011 Late Neogene Alligator evolution and a description of specimens from the Gray Fossil Site, southern Appalachians, USA. Society of Vertebrate Paleontology, Las Vegas. *Journal of Vertebrate Paleontology* 31:189A. (With B.W. Schubert, J.I. Mead, and J.B. Stout; my name is on the poster, but was not included on the abstract)
- 2010 Crocodyliforms from the Early Miocene Domo de Zaza locality of Cuba. Society of Vertebrate Paleontology, Pittsburgh. *Journal of Vertebrate Paleontology* 30:112A. (With O. Jiménez Vázquez)
- 2009 The oldest record of *Caiman yacare*. Society of Vertebrate Paleontology, Bristol, UK. *Journal of Vertebrate Paleontology* 29:97A. (with D. Fortier and J. Souza-Filho)
- 2006 Unlocking research collections: the UI Paleontology Repository computerization project. Geological Society of America, Philadelphia, PA. *Geological Society of America Abstracts with Programs* 38:141. (With T. Adrain, A. Budd, J. Adrain, and H. Sims)
- 2005 Cocodrilos fósiles de Puerto Rico (Fossil crocodiles of Puerto Rico). XXIV Simposio de Flora y Fauna del Caribe, Casa Roig, PR. www1.uprh.edu/simpff/sffc2005.htm. (With J. Vélez-Juarbe, A. Nieves-Rivera, J. D. Daza-Vaca, and H. Santos)
- 2003 A new slender-snouted crocodyliform from the Upper Cretaceous Maevarano Formation, Madagascar. Society of Vertebrate Paleontology, St. Paul, MN. *Journal of Vertebrate Paleontology*, 23:37A. (with G. A. Buckley and J. Georgi.)
- 2002 Paleopathology of amniote specimens from the Late Paleozoic and Mesozoic of North America: Comparison of gross morphological and histological analyses. Society of Vertebrate Paleontology, Norman, OK. *Journal of Vertebrate Paleontology* 22:98A. (with E.S. Rega and N.K. Wideman.)
- 2001 A skull of *Mahajangasuchus insignis* (Crocodyliformes) from the Upper Cretaceous of Madagascar. Society of Vertebrate Paleontology, Bozeman, MT. *Journal of Vertebrate Paleontology*, 21:36A. (with G.A. Buckley)
- 1995 The giant dwarf crocodile: A reappraisal of "*Crocodylus*" *robustus* from the Quaternary of Madagascar. 18th Annual Field Museum Spring Systematics Symposium: Environmental Change in Madagascar, Chicago. *Environmental Change in Madagascar*, ed. by B.D. Patterson, S.M. Goodman, and J.L. Sedlock, Field Museum, Chicago, p. 6. (with G. W. Storrs)
- 1991 Ontogeny and comparative morphology of the ilium in eusuchian crocodylomorphs. Society of Vertebrate Paleontology, San Diego. *Journal of Vertebrate Paleontology* 11:18A.

Conference Presentations Without Abstract

Invited Symposium Presentations (platform)

- 2009 Tree-based thinking in undergraduate paleontology classes. On the Cutting Edge – Professional Development for Geoscience Faculty: Teaching Paleontology in the 21st Century, Cornell University, Ithaca.

- 2009 Cuban crocodiles in a deep-time context. Workshop on the Genetics and Conservation Biology of the Cuban Crocodile, Playa Larga, Cuba.
- 2008 Phylogenetics and the integration of paleontology within the life sciences. Paleontological Society Short Course: From Evolution to Geobiology: Paleontology at the Start of a New Century (with C. Sumrall).
- 2008 Viewing paleobiology through the lens of phylogeny. Paleontological Society Short Course: From Evolution to Geobiology: Paleontology at the Start of a New Century (with C. Sumrall)
- 2008 The hierarchy of certainty – constraining and enabling the restoration of the dead. Iowa Academy of Sciences.
- 2006 The myth of the living fossil; or, why crocodiles are better than dinosaurs. Dinosaurs!, Singapore Science Center/National University of Singapore.
- 2006 The dead speak: lessons from a tyrannosaur. Dinosaurs!, Singapore Science Center/National University of Singapore.
- 2003 Development of a National Systematics Infrastructure - The View from Paleontology. National Science Foundation Workshop – Development of a National Systematics Infrastructure: A Virtual Instrument for the 21st Century, New York Botanical Garden
- 2001 The big and the dead. A. Watson Armour III Symposium: Paleobiology and Phylogenetics of Large Theropods, Field Museum, Chicago.

Volunteered Presentations (Platform)

- 1999 Temporal congruence and the origin of birds - is there a "temporal paradox?" Society of Systematic Biologists/Society for the Study of Evolution, Madison, WI. (with M.A. Norell)
- 1997 Expected divergence times within Crocodylia from molecules and fossils: conflict and congruence. Society of Systematic Biologists/Society for the Study of Evolution, Boulder.
- 1997 Bias introduced into majority rule consensus by labile taxa: Its cause, description, and consequences for bootstrap analysis. Society of Systematic Biologists/Society for the Study of Evolution, Boulder. (with C.D. Sumrall and J.W. Merck [speaker])

Invited Lectures

- 2014 Mahasarakham University, Thailand
- 2013 Museo de Paleontología “Eliseo Palacios Aguilera,” Tuxtla Gutierrez, Chiapas, México; Universidad Nacional de Education de Distancia, Madrid
- 2012 Department of Earth and Planetary Sciences, University of Tennessee, Knoxville; Jackson School of Geosciences, University of Texas, Austin; Department of Biology, University of Iowa; General Shale Brick Museum of Natural History, East Tennessee State University, Gray
- 2011 Department of Earth Sciences, Southern Methodist University, Dallas; General Shale Brick Museum of Natural History, East Tennessee State University, Gray; Obermann Center for Advanced Studies, University of Iowa
- 2009 Department of Earth Sciences, University of Bristol, Bristol, UK
- 2008 Department of Biology (jointly with Department of Geoscience), University of Iowa
- 2006 Department of Earth and Planetary Sciences, University of California, Santa Cruz; Roy J. Carver Center for Comparative Genomics, Department of Biological Sciences, University of Iowa; Department of Earth and Planetary Sciences, University of Tennessee, Knoxville; Institute for Vertebrate Paleontology and Paleoanthropology, Beijing
- 2005 Department of Earth Science, University of Northern Iowa, Cedar Falls
- 2004 American Museum of Natural History, New York; Department of Geology, Eastern Washington University, Cheney

- 2003 Department of Geological Sciences, University of Tennessee, Knoxville; Department of Zoology, Miami University, Oxford, OH; Field Museum, Chicago
- 2002 Department of Biological Sciences, Texas Tech University, Lubbock; Department of Zoology, Iowa State University, Ames; Department of Organismic and Evolutionary Biology, University of Massachusetts, Amherst; Florida Museum of Natural History, University of Florida, Gainesville
- 2001 Department of Biological Sciences, Florida State University, Tallahassee
- 2000 Illinois State Museum, Springfield; Department of Biology, California State University-San Bernardino; The Claremont Colleges, Claremont, CA; Department of Geology and Geophysics, University of Chicago; Department of Anatomical Sciences, State University of New York at Stony Brook
- 1999 Cincinnati Museum Center, Cincinnati; Field Museum of Natural History, Chicago; Department of Geology, University of Cincinnati; Department of Biology, Northern Illinois University, DeKalb
- 1998 The Claremont Colleges, Claremont, CA; Department of Radiology, Cumberland College, University of Sydney, Sydney, NSW, Australia; Evolutionary Morphology Group, University of Chicago
- 1997 Department of Geology, Field Museum of Natural History, Chicago; Herpetology Group, Washington University, St. Louis, MO
- 1996 Department of Geological Sciences, University of Texas at Austin
- 1995 Department of Zoology, University of Texas at Austin

Pending Decisions

Journal Articles (Peer Reviewed)

Brochu, C.A., and G. Carbot-Chanona. Biogeographic and systematic implications of a caiman from the late Miocene of southern Mexico. *Journal of Herpetology*, submitted 7-13.

Eberle, J.E., M.D. Gottfried, J.H. Hutchison, and **C.A. Brochu**. The first record of Eocene bony fishes and Crocodyliforms in the western Arctic. *PLoS One*, submitted 12-13.

Erickson, G.M., M.A. Norell, P.J. Makovicky, P.J. Currie, **C.A. Brochu**, and S.A. Yerby. Reply to N. Myhrvold. *Nature*, submitted 1-14.

Service

Departmental

2001 - 2002	Space Committee
2001 - pres.	Repository Committee
2002 - present	Undergraduate Committee (chair starting 2012)
2002 - pres.	Graduate Alumni Advisory Board
2002 - pres.	Sigma Gamma Epsilon Faculty Advisor
2003	Repository Collections Manager Search Committee
2003 - 2004	Terrestrial Paleocology Search Committee
2004 - 2006	Computer Committee
2006 – 2009	Executive Committee
2007	Promotion and Tenure Committee, David Peate (3 rd Year Review)
2007 – 2012	Annual Review Committee, Hallie Sims
2007	Promotion and Tenure Committee, Hallie Sims (3 rd Year Review; chair)
2008 – 2010	Annual Review Committee, Jeffrey Dorale
2009 – 2010	Associate Chair
2009 – 2010	Faculty Meeting Scribe
2012 – pres.	Director of Undergraduate Studies
2013 – pres.	Mentoring Committee, Emily Finzel
2013 – pres.	Geophysics Search Committee (chair)

College/University

2001-2007	Faculty Assembly Departmental Representative (Alternate)
2003	Ida Beam Distinguished Lectureship (jointly sponsored by Biological Sciences and Geoscience)
2003	Museum of Natural History Committee
2005-2008	College of Liberal Arts and Sciences Collegiate Teaching Award Committee
2006-2010	University Campus Classroom Advisory Committee
2006-pres.	Undergraduate advisor, Environmental Sciences Program, Bioscience and undeclared track
2010-pres.	University College Faculty Advisory Group
2011	OnIowa! Volunteer, President's Block Party
2011, 2012	Judge, Iowa Shout, University of Iowa Homecoming
2013	Platform Party, CLAS Spring Commencement
2013	OnIowa! Volunteer, "How to Excel at Iowa"

Profession

Society Offices Held

2006-2009	Secretary, Society of Vertebrate Paleontology
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Society Committees

2002 - 2006	Society of Vertebrate Paleontology Predoctoral Scholarship Committee (chair, 2002-2004)
2002 - 2003	Society of Vertebrate Paleontology Host Committee
2005-pres.	Committee for Phylogenetic Nomenclature, International Society of Phylogenetic Nomenclature
2006-2009	Society of Vertebrate Paleontology Executive Committee
2012-pres.	Society of Vertebrate Paleontology Program Committee

Symposia/Theme Sessions Organized

2013	<i>The Paleontology of Texas: A Session in Honor of Wann Langston, Jr.</i> Geological Society of America South-Central Regional Meeting, Austin. (co-organizers: M. Stocker, W. Parker, E. Lundelius)
2011	<i>Second Symposium on Crocodyliform Evolution.</i> 4 th Latin American Congress of Vertebrate Paleontology, San Juan, Argentina (co-organizers: D. Riff and D. Pol).

- 2008 *Phylogenetic Perspectives on Assembling the Tree of Life in Deep Time*. Paleontological Society/Geological Society of America, Houston (co-organizers: C.D. Sumrall and T. Karim).
- 2001 *When Clocks Collide: Calibrating Lineage Divergences from Fossils and Molecules*. North American Paleontological Convention, Berkeley (co-organizers: C.D. Sumrall and J.M. Theodor).
- 2001 *Systematics and Paleobiology of Giant Theropods*. A. Watson Armour Symposium, Field Museum, Chicago (co-organizer: M. Carrano).

Journal Editorships

- 2012-2013 Guest Editor, *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* (Theme Issue: The Full Profession: A Celebration of the Life and Career of Wann Langston, Jr., Quintessential Vertebrate Palaeontologist)
- 1999-2003 Associate Editor, *Journal of Vertebrate Paleontology*
- 2003-2006 Co-Editor, *Journal of Paleontology*

Student Thesis Committees (non-UI)

<i>Student Name</i>	<i>School</i>	<i>Years</i>	<i>Role</i>	<i>Outcome</i>
Jeffrey Wilson	University of Chicago	1999	Proxy Examiner	Ph.D. 2000
Hans Larsson	University of Chicago	2000	Member	Ph.D. 2000
Ronald Tykoski	University of Texas	2000-2005	Member	Ph.D. 2005
Nina Triche	University of Texas	2002-2003	Member	M.S. 2003
Stéphane Jouve	Université de Paris	2004	Defense jurist	Ph.D. 2004
Raymond Willis	Texas Tech University	2004-2006	Member	M.S. 2006
Jonathan Weinbaum	Texas Tech University	2004-2007	Member	Ph.D. 2007
Paolo Piras	Università Roma	2007	Defense Jurist	Ph.D. 2007
David Marjanovic	Universität Wiens	2010	Ext. Evaluator	Ph.D. 2010
Tara Singh	Univ. Tunku Abdul Rahman	2010-pres.	Member	in progress
Jeremy Weaver	Texas Tech University	2010-pres.	Member	in progress
Katherine Dzikiewicz	North Carolina St. U.	2011-pres.	Member	in progress
Lauren English	University of Texas	2013-pres.	Member	in progress

Grant Review Panels

- 2013 National Science Foundation (Biodiversity: Discovery and Analysis)
- 2011 National Science Foundation (Emerging Frontiers, Biological Sciences/Advancing Digitization of Biological Collections)
- 2010 National Science Foundation (Systematic Biology and Biodiversity Inventories/Revisionary Systematics)
- 2004 National Science Foundation (Systematic Biology, Doctoral Dissertation Improvement Grants)
- 2003 National Science Foundation (Systematic Biology, Doctoral Dissertation Improvement Grants)

External Grant Proposal Reviewer

- 2013 National Geographic Society; Swiss National Science Foundation; Synthesis of Systematic Resources
- 2010 National Science Foundation (EAR/Sedimentary Geology and Paleobiology)
- 2009 National Science Foundation (DEB/Phylogenetic Systematics; EAR/Postdoctoral Fellowship [2]), International Foundation for Science
- 2008 National Science Foundation (EAR/Sedimentary Geology and Paleobiology)
- 2007 National Science Foundation (EAR/Instrumentation and Facilities)
- 2006 National Science Foundation (EAR/Sedimentary Geology and Paleobiology [3x], EAR/Antarctic Geology and Geophysics, EAR/Facility Support, DBI/Biological Research Collections), Earthwatch, U.S. Civilian Research and Development Foundation
- 2005 National Science Foundation (DEB/Systematic Biology – Revisionary Syntheses in Systematics; EAR/Sedimentary Geology and Paleobiology [2x]; EAR/Instrumentation and Facilities)
- 2004 National Science Foundation (DBI – Biological Research Collections)
- 2003 National Science Foundation (EAR/Geology and Paleontology); Ohio University Baker Fund
- 2002 National Science Foundation (EAR/Geology and Paleontology)

2002 National Science Foundation (IBN/Ecological and Evolutionary Physiology, 2x)
2002 National Geographic Society

UI Internal Grant Proposal Reviewer

2010 Center for Global and Regional Environmental Research Seed Grant Program
2002 Biological Sciences Funding Program

Tenure Reviewer (non-UI)

2012 Department of Biochemistry, Molecular Biology, Entomology and Plant Pathology, Mississippi State University
2011 Department of Anatomy & Cell Biology, Oklahoma State University – Center for Health Sciences
2010 Department of Biology, Texas A&M University
2008 Departments of Herpetology and Astrophysics, American Museum of Natural History
2006 Geology Department, Field Museum

Manuscript Reviewer

2014 *Zoological Journal of the Linnean Society*
2013 *Journal of Paleontology* (2); *Journal of Vertebrate Paleontology*; *Journal of Systematic Palaeontology*; *Paleoanthropology and Vertebrate Paleobiology* series (Springer-Verlag); *Naturwissenschaften*; *Florida Museum of Natural History Bulletin*; *Journal of Zoological Systematics and Evolutionary Research*; *Acta Zoologica*; *Herpetological Conservation and Biology*; *Nature* (2); *PLoS One*; *Cretaceous Research*; *Ameghiniana*
2012 *Journal of Vertebrate Paleontology* (4); *Journal of Morphology*; *Cretaceous Research*; *Geobios*; *Nature*; *Nature Communications*; *PLoS One*; *Biological Reviews*; *Anatomical Record*; *Palaeontology*; *Earth and Environmental Science Transactions of the Royal Society of Edinburgh* (3); *Dinosaurs and other Reptiles from the Mesozoic of Mexico* (edited book); *Bulletin of the American Museum of Natural History*; *Historical Biology*
2011 *Proceedings of the National Academy of Sciences of the USA*; *Paleobiology*; *Journal of Vertebrate Paleontology* (4); *Fossil Record*; *Anais da Academia Brasileira de Ciências*; *PLoS One* (2); *Journal of Systematic Palaeontology* (2); *Palaeontologica Electronica*; *Zootaxa*; *Anatomical Record* (3); *Paleontological Society Special Publication: Teaching Paleontology in the 21st Century*; *Quaternary International*; *Systematic Biology*; *Nature*
2010 *Cladistics*; *Journal of Herpetology* (2); *Canadian Journal of Earth Sciences*; *Naturwissenschaften* (2); *Proceedings of the National Academy of Sciences of the USA*; *Caribbean Journal of Science*; *Molecular Phylogenetics and Evolution* (2); *Evolution & Development* (2); *Herpetological Review*; *Society of Vertebrate Paleontology Memoir* (2); *Journal of Vertebrate Paleontology*; *Zoologica Scripta* (2); *Systematic Biology*; *Neues Jahrbuch für Geologie und Paläontologie Abhandlungen*; *Boletín de la Sociedad Geológica Mexicana*
2009 *Palaeogeography, Palaeoclimatology, Palaeoecology*; *Systematic Biology* (3); *Breviora* (2); *Journal of Vertebrate Paleontology* (3); *Canadian Journal of Earth Sciences*; *Zoological Journal of the Linnean Society* (4); *Molecular Phylogenetics and Evolution* (2); *Proceedings of the National Academy of Sciences of the USA*; *Journal of Anatomy*; *Neues Jahrbuch für Geologie und Paläontologie Abhandlungen*; *Current Biology*
2008 *Proceedings of the Royal Society of London B*; *Palaeontology* (2); *Journal of Vertebrate Paleontology* (3); *Journal of Paleontology*; *Journal of Experimental Zoology A (Ecological Genetics and Physiology)*; *Journal of Aquatic Animal Health*; *Zoological Journal of the Linnean Society* (3); *Amazonia: Landscape and Species Evolution* (edited book, Wiley-Blackwell); *Fossil Record*; *Molecular Phylogenetics and Evolution*; *Anatomical Record*; *Geological Magazine*; *Alcheringa*; *Caribbean Journal of Science*; *Palaeontologica Electronica*; *Zootaxa*
2007 *Journal of Systematic Palaeontology*; *Zoological Journal of the Linnean Society* (2); *Proceedings of the Royal Society of London B* (2); *Zootaxa*; *Journal of Vertebrate Paleontology* (4); *Acta Palaeontologica Polonica*; *American Museum Novitates*
2006 *Palaeontology*; *SVP Memoir*; *Transactions of the American Philosophical Society*; *Palaaios*; *Proceedings of the Royal Society of London B* (3); *Evolution & Development*; *Journal of Vertebrate Paleontology* (7); *Annals of the Carnegie Museum*; *Acta Palaeontologica Polonica*;

- Molecular Phylogenetics and Evolution, Kansas Academy of Sciences Transactions; PalaeoWorld; II Latin American Congress of Vertebrate Paleontology Proceedings (2)*
- 2005 *Nature (4); Science; Palaeontology; Journal of Vertebrate Paleontology (4); Geobios (2); American Museum Novitates (2); Paleobiology; Acta Paleontologica Polonica (2); Palaios; Paleontologica Electronica; Comparative Biochemistry and Physiology; Proceedings of the Royal Society of London B; BioEssays; Journal of Systematic Palaeontology; Studies on Neotropical Fauna and Environment; Zoological Journal of the Linnean Society; Public Library of Science – Biology (2); Patagonian Mesozoic Reptiles (edited book, Indiana University Press); Atti della Società Italiana di Scienze Naturali e Museo Civico di Storia Naturale in Milano*
- 2004 *Nature (multiple); Journal of Vertebrate Paleontology (multiple); Canadian Journal of Earth Sciences; Zoological Journal of the Linnean Society; Acta Paleontologica Polonica; Proceedings of the Royal Society of London; Molecular Biology and Evolution; Molecular Phylogenetics and Evolution; Paleobiology*
- 2003 *Journal of Vertebrate Paleontology (multiple times); Palaeontology; American Museum Novitates (2); Geodiversitas; Journal of Paleontology; Nature; Bulletin du Museum des Sciences Naturelles de Belgique; Cretaceous Research; Palaontologisches Zeitschrift; Annual Review of Genetics; Proceedings of the Royal Society of London*
- 2002 *Systematic Biology; Canadian Journal of Earth Sciences; Journal of Vertebrate Paleontology (4); Paleontologica Electronica; American Museum Novitates; two different edited books.*
- 2001 *Journal of Vertebrate Paleontology (5); Canadian Journal of Earth Sciences (2); Copeia; Science (2); National Geographic Magazine*
- 2000 *Journal of Vertebrate Paleontology (6); Palaeontology; Journal of Paleontology; Nature (2); Geobios; Journal of Morphology*
- 1999 *Journal of Vertebrate Paleontology (4); Herpetologica*
- 1998 *American Museum Novitates; Journal of Vertebrate Paleontology; Zoological Journal of the Linnean Society*
- 1997 *Systematic Biology*
- 1995 *Canadian Journal of Earth Sciences*

Community

Public lectures/presentations for nonspecialists

- 2013 Science Center of Iowa Café Scientifique: Digging Up Dirt – The Science of Sue
- 2012 UI Explorer Lecture Series, Univ. of Iowa Museum of Natural History: Horned Giants that Ate Our Ancestors.
- 2010 Iowa City Bird Club: Where Birds Came From.
- 2010 UI Explorer Lecture Series, Univ. of Iowa Museum of Natural History: The Hierarchy of Certainty – How Evolution Illuminates Past and Present.
- 2010 Trinity Episcopal Church, Iowa City: The Sixth Extinction.
- 2009 Introducing Darwin Series, University of Calgary: The Hierarchy of Certainty: How the Past Is Predictive.
- 2009 Dubuque Unitarian/Universalist Society: The Hierarchy of Certainty
- 2009 PaleoFest, Burpee Museum of Natural History, Rockford, IL: The Myth of the Living Fossil
- 2008 Biology Undergraduate Society (BUGS), University of Iowa: The Myth of the Living Fossil.
- 2008 Iowa City Darwin Day Celebration: The Dead Speak: Lessons from a Tyrannosaur.
- 2007 Science Center of Iowa: Marine Reptiles.
- 2006 Iowa Museum of Natural History, University of Iowa, Iowa City: The Dead Speak – Lessons From a Tyrannosaur
- 2006 Story County Conservation Board, Ames, IA: Birds As Dinosaurs.
- 2005 Southwestern Oregon Community College, Coos Bay: The Dead Speak: Lessons from a Tyrannosaur.
- 2005 Iowa Science Center, Des Moines: The Dead Speak: Lessons from a Tyrannosaur.
- 2004 Iowa Ornithological Union Annual Meeting, Keynote Address: Birds as Dinosaurs
- 2004 Florida Museum of Natural History, Gainesville: The Myth of the Living Fossil, or Why Crocodiles are Better than Dinosaurs.
- 2004 Geology Lecture Series, Spokane Community College, Spokane, WA.: The Dead Speak: Lessons from a Tyrannosaur.

- 2003 Mary Murphy, BVM Endowed Lecture in Biology, Clarke College, Dubuque, IA: The Dead Speak: Lessons from a Tyrannosaur.
- 2003 Kentucky Paleontological Society Darwin Lecture Series, Lexington, KY: The Dead Speak: Lessons from a Tyrannosaur.
- 2003 Kentucky Paleontological Society Darwin Lecture Series, Lexington, KY: Simultaneous Illumination: Phylogenetic Approaches Toward Crocodylian History
- 2003 Archaeological Institute of America (Iowa Society), Iowa City: The Dead Speak - Lessons from a Tyrannosaur.
- 2002 Texas Herpetological Society, Lubbock: The Dead Speak - Lessons from a Tyrannosaur.
- 2002 Saturday Scholars Program, College of Liberal Arts and Sciences, University of Iowa: The Dead Speak - Lessons from a Tyrannosaur.
- 2001 Iowa Science Center, Des Moines: Why Crocodiles are Better than Dinosaurs.
- 2001 Iowa Science Center, Des Moines: The Science of Sue.
- 2001 Peccary Society, Webb Schools, Claremont, CA: The Science of Sue.
- 2001 Central Iowa Mineral Society, Des Moines: The Science of Sue.
- 2001 Iowa Optimists, Iowa City: The Science of Sue.
- 2001 Sternberg Museum of Natural History, Hays, KS: The Science of Sue.
- 2001 Science Museum of Minnesota, St. Paul: The Science of Sue.
- 2000 Chicago Chemical Club, Glenview, IL: The Science of Sue.
- 2000 Field Museum of Natural History, Chicago: The Science of Sue.
- 2000 Fermi National Accelerator Laboratory, Batavia, IL: Sue - The Inside Story.
- 2000 Lincoln Orbit Earth Sciences Society, Springfield, IL: The Dead Speak - Lessons from a Tyrannosaur.
- 1999 Dry Dredgers (Cincinnati Paleontological Society): High-resolution computed tomography in morphology and paleontology.
- 1997 Austin Paleontological Society, Austin, TX: CT technology and paleontology.
- 1995 San Antonio Geological Society, San Antonio, TX: The fossil history of crocodylians.
- 1994 Austin Paleontological Society, Austin, TX: The fossil history of crocodylians.

Extrdepartmental Education

- 2011 Judge, James F. Jakobsen Graduate Conference, University of Iowa
- 2008 Girl Scout Badge Day, Iowa City: introduction to paleontology
- 2004 – pres. Occasional classroom fossil or reptile demonstrations, Iowa City Community School District
- 2003 Judge, Tennessee State Science Olympiad
- 2002 - 2003 Paleontological Society Distinguished Lecturer
- 2001 Science Co-Op Project, Regional Inst. for Science Ed., Univ. Missouri - St. Louis.
- 2000 Panelist, The Obligatory but Really Cool Dinosaur Panel, World Science Fiction Society Convention, Chicago.
- 1998-2000 Biodiversity Explorers, Field Museum
- 1998-2000 Volunteer Training, Field Museum
- 1990-1991 Elderhostel Program, University of Texas at Austin

Museum Exhibit Consultation

- 2011 Natural History Museum of Los Angeles County
- 2003-pres. Science Center of Iowa, Des Moines
- 2003 *T. Rex On Trial*, Natural History Museum, London
- 2003-2004 *Florida Fossils: Evolution of Life and Land*. Florida Museum of Natural History, Gainesville, FL
- 1998-2000 Sue exhibit (including traveling exhibit), Field Museum, Chicago, IL

Textbook Review

- 2011 Quillin, K. *Biological Science*. Freeman, revised edition in review.
- 2004 Martin, A. *Introduction to the Study of Dinosaurs*. Blackwell. (Reviewed proposal for 2nd edition.)

Educational Program Consultation

- 2011 *Nova*

- 2006 *The New T. rex* (Coneflower Films/Discovery Channel)
- 2004-2005 *Be the Creature: Anaconda* (National Geographic Channel)
- 2003-2004 *T. rex: Warrior or Wimp?* (British Broadcasting Company)
- 2001 *SuperCroc* (National Geographic Channel)
- 1999-2000 *A T. rex Named Sue* (National Geographic Society)
- 1999 *Ultimate Guide: Crocodiles* (Discovery Channel)
- 1996 *PaleoWorld: Giant Crocodiles* (Wall To Wall Productions/The Learning Channel)

Popular Book/Magazine Article Consultation

- 2009 White, M. "When crocs ruled." *National Geographic Magazine*, November 2009
- 2002 Sloan, C. *SuperCroc and the Origin of Crocodiles*. National Geographic Society, Washington, DC.
- 2000 Relf, P. *A Dinosaur Named Sue: The Story of the Colossal Fossil – The World's Most Complete T. Rex*. Scholastic Book Services, New York.
- 1999 Robinson, F. *A Dinosaur Named Sue: The Find of the Century*. Scholastic Book Services, New York.
- 1998 Kalman, B. *The Science of Living Things: What is a Reptile?* Crabtree Publishing, New York.

Other Consulting

- 1997 U.S. Fish and Wildlife Service, Law Enforcement Division