

Philip J. Bergmann

Department of Biology
Clark University
950 Main Street
Worcester, MA 01610
United States
e-mail: pbergmann@clarku.edu
web: <http://www.clarku.edu/faculty/pbergmann/>

Academic Positions

- **Associate Professor**, Department of Biology, Clark University. Aug 2016 to Present.
- **Assistant Professor**, Department of Biology, Clark University. Jan 2011 to Aug 2016.
- **G.G. Simpson Postdoctoral Fellow**. University of Arizona. Sept 2008 to Dec 2010.
- **Ph.D. in Ecology and Evolutionary Biology** studying the evolution of body elongation and limb reduction. University of Massachusetts Amherst. Advisor: D.J. Irschick. Jan 2004 to Jun 2008; until Jun 2006 at Tulane University.
- **M.Sc. in Zoology** studying lizard systematics and biogeography. University of Calgary. Advisor: A.P. Russell. Sep 2000 to Aug 2003.
- **B.Sc., double major in Ecology and Zoology**. University of Calgary, Divisions of Ecology and Zoology. Sep 1995 to Apr 1999.

Teaching Experience

- **Comparative and Human Anatomy** (Biol111). Clark University. Spring 2011-17.
- **Advanced Biostatistics** (Biol206/306). Clark University. Fall 2012, 2015, 2016.
- **Herpetology** (Biol119). Clark University. Fall 2011, 2013 (Also taught as EEB483, University of Arizona during Spring 2009, 2010).
- **Science Careers & Effective Practice** (Biol290/390). Clark University. Spring 2014, 2016, 2018.
- **Animal Locomotion** (Biol233/333). Clark University. Spring 2013, 2015, 2017.
- **Seminar in Evolution** (Biol243/343). Clark University. Spring 2012.
- **Diversity of Life** (EEB111). TA at Tulane University. Four semesters: 2004-06.
- **Comparative Vertebrate Anatomy** (Zool377). TA at University of Calgary. Three semesters: 2001-03.
- **Embryology** (Zool471). TA at University of Calgary. Three semesters: 2000-02.

Student Mentoring

- **Undergraduate students in research**
 - 31 at Clark University: V. Adam (2012), M. Azeez (2015-16), C. Alonso (2014), D. Berry (2015-18), M. Crockett (2014-15), H. Diebboll (2013-14), K. Giedymin (2012), K. Glennie (2017-18), M. Hare-Drubka (2011-13), F. Harwell (2014-15), R. Holden (2015), S.

Kaufman (2014-15), L. Le (2017-18), S. Mann (2017), M. Molloy (2016), D. Opp (2011), S. Palladino (2011-12), K. Pettinelli (2012-14), L. Prosterman (2013-14), M. Provost (2013-15), J. Majka (2016-17), A. Mitchell (2011-13), D. Rabinowicz (2011-12), S. Reed (2017-2018), K. Richer (2012-13), R. Rood-Goldman (2013-14), E. Roth (2012-13), E. Schaper (2014-18), S. Schnurr (2012-13), L. Siegel-Reamer (2012-14), and A. Zelck (2011-12), V. Zhou (2015).

- Two at University of Arizona: C.L. Frost and C.P. Berk (2009-2010).
- Five at University of Massachusetts Amherst: A. Trombecky, H. Li, H.J. Kim (2007-2008), S. Miner and S. Robinson (2007).
- Two at Tulane: J. Wu (2004-06) and J. Fontain (2004).
- Seven at the University of Calgary: S. Lessard, A.M. Hobbs, M.L. Kavalench (2001), A.D. Melin, M. Quarterro (2002), C. Staley and M. Johnson (2003).

- **Mentoring graduate students**

- Amy Cheu. PhD student (Aug 2015-Present)
- Gen Morinaga. PhD student (Aug 2012-Present)
- Marian Crockett. MS student (May 2014-Present)
- Robert Holden. MS student (May 2015-Present)
- Faye Harwell. MS student (May 2014-Jul 2016)
- Cynthia Alonso. MS student (Jan 2014-Jul 2015)
- Kyle Pettinelli. MS student (May 2012-Dec 2015)
- Hannah Diebboll. MS student (May 2013-May 2015)
- Allegra Mitchell. MA student (2011-Apr 2014)
- Mandy Gaudreau. PhD student (Jan 2012-Apr 2013)
- Natasha Tchamitchian. MA student (2011-Apr 2013)

Other Experience

- **IACUC 101 & 201 Workshop**, Rochester, New York. 2014.
- **Howard Hughes Entering Mentoring Seminar**, Univ. of Massachusetts Amherst. 2008.
- **Model based inference in the life sciences workshop**. SUNY, Syracuse. 2007.
- **Applied Phylogenetics Workshop**. University of California, Davis. 2001.
- **Research Assistant** at University of Calgary for A.P. Russell and M.R. Lein. 1998-2000.

Awards and Grants

- **Faculty Development Fund** from Clark University. 2017. \$3500.
- **Hodgkins Junior Faculty Fellowship** from Clark University. 2014-15.
- **Collaborative Research: Developmental and functional mechanisms of complex trait re-evolution: Limb loss and gain in skink lizards** from NSF. 2014-18. Co-PIs: C. Siler, G. Wagner, D. Irschick. \$153,158 (\$665,963 total).
- **Faculty Development Fund** from Clark University. 2014. \$1500.
- **LEEP Course Development Grant** from Clark Davis Foundation grant for Science Careers & Effective Practice. 2013. \$2000.
- **LEEP Course Development Grant** from Clark Davis Foundation grant for Advanced Biostatistics. 2012. \$2000.
- **LEEP Course Revision Grant** from Clark Davis Foundation grant for Comparative & Human Anatomy Lab. 2011. \$500.
- **Natural Sciences and Engineering Research Council of Canada** Postdoctoral Fellowship. 2010-12. \$80,000. Declined.
- **G.G. Simpson Postdoctoral Fellowship**, University of Arizona. 2008-10. \$37,500/yr.

- **Natural Sciences and Engineering Research Council of Canada** Postdoctoral Fellowship. 2009-10. \$80,000. Declined.
- **Graduate School Fellowship** from Univ. of Massachusetts Amherst. 2007-08. \$11,250.
- **Hall Award** from Canadian Society of Zoologists for best student presentation in comparative morphology and development. 2007. \$300.
- **American Society of Ichthyologists and Herpetologists Gaige Award**. 2006. \$500.
- **Society for Integrative & Comparative Biology Grant in Aid of Research**. 2006. \$1000.
- **Natural Sciences and Engineering Research Council of Canada** Post Graduate Studies – Doctoral award. 2004-05. \$42,000.
- **Outstanding Contribution to Teaching** award from the Faculty of Graduate Studies, University of Calgary. 2003. \$500.
- **Sharon Wilkens Graduate Scholarship** for research and teaching excellence. 2003. \$700.
- **Province of Alberta Graduate Scholarship**. 2002/03. \$9300.
- **Alberta Heritage Fund Scholarship**. 2001. \$2000.
- **Jake Duerksen Memorial Scholarship** from the University of Calgary. 2001. \$2000.
- **University of Calgary Thesis Research Grant**. 2001. \$1000.

Publications

Peer-Reviewed publications

29. **Bergmann, PJ**, Pettinelli, KJ*, Crockett, ME*, Schaper, EG*. 2017. It's just sand between the toes: How particle size and shape variation affect running performance and kinematics in a generalist lizard. *Journal of Experimental Biology* 220: 3706-3716.
28. Morinaga, G**, **Bergmann, PJ**. 2017. Convergent body shapes have evolved via deterministic and historically contingent pathways in *Lerista* lizards. *Biological Journal of the Linnean Society* 121: 858-875.
27. Nagy, LG., Riley, R, **Bergmann, PJ**, Krizsan, K, Martin, FM, Grigoriev, IV, Cullen, D, Hibbett, DS. 2016. Genetic bases of fungal white rot wood decay predicted by phylogenomic analysis of correlated gene-phenotype evolution. *Molecular Biology & Evolution*: 34: 35-44.
26. Mitchell, A**, **Bergmann, PJ**. 2016. Thermal and moisture habitat preferences do not maximize jumping performance in frogs. *Functional Ecology* 30: 733-742.
25. Huron, NA**, Realubit, NDC, Cobb, KA**, Brown, JC, **Bergmann, PJ**, Morinaga, G**, Diesmos, AC, Diesmos, ML, Brown, RM, Siler, CD. 2016. Discovery of new island populations of the recently described False Geckos (*Pseudogecko pungkayipinit* and *Pseudogecko ditoy*): Conservation implications for the Eastern Philippines. *Herpetological Review* 47: 1-4.
24. Realubit, NDC, Diesmos, ML, Lorenzo II, A, de Layola, LA, Diesmos, AC, Brown, JC, Brown, RM, Cobb, KA, **Bergmann, PJ**, Morinaga, G, Siler, CD, Huron, NA, Siler, JM. 2015. Geographic range note on *Draco mindanensis*. *Herpetological Review* 46: 216.
23. Sanguila, MB, Realubit, NDC, Diesmos, ML, Lorenzo II, A, de Layola, Brown, JC, Cobb, KA, **Bergmann, PJ**, Morinaga, G**, Freitas, E, Huron, NA**, Watters, JL. 2015. Geographic distribution note on *Pelophryne lighti*. *Herpetological Review* 46: 380.
22. Davis, DR, Sanguila, MB, Realubit, NDC, Diesmos, ML, Lorenzo II, A, de Layola, LA, Diesmos, AC, Brown, JC, Brown, RM, Cobb, KA, **Bergmann, PJ**, Morinaga, G, Siler, JM, Huron, NA, Siler, CD. 2015. Natural history notes on sex characteristics for female *Pseudogecko ditoy*. *Herpetological Review* 46: 634-635.
21. **Bergmann, PJ**, Hare-Drubka, M*. 2015. Hindlimb muscle anatomical mechanical advantage differs among joints and stride phases in basilisk lizards. *Zoology* 118: 291-298.
20. **Bergmann, PJ**. 2015. Convergent evolution of body shape in squamate reptiles. Pp. 245-278 in: Bininda-Emonds, O.R.P., Powell, G.L., Jamniczky, H.A., Bauer, A.M., and

- Theodor, J. (eds.), All Animals are Interesting: A Festschrift in Honour of Anthony P. Russell. BIS Verlag, Oldenburg, Germany.
19. **Bergmann, PJ**, McElroy, EJ. 2014. Many-to-many mapping of phenotype to performance: An extension of the F-matrix for studying functional complexity. *Evolutionary Biology* 41: 546-560.
 18. McElroy, EJ, **Bergmann, PJ**. 2013. Tail autotomy, tail size and locomotor performance in lizards. *Physiological & Biochemical Zoology* 86: 669-679.
 17. **Bergman, PJ**, Berk, CP*. 2012. The evolution of positive allometry of weaponry in horned lizards (*Phrynosoma*). *Evolutionary Biology* 39: 311-323.
 16. Frost, CL*, **Bergmann, PJ**. 2012. Spatial distribution and habitat utilization of the Zebra-tailed Lizard (*Callisaurus draconoides*). *Journal of Herpetology* 46: 203-208.
 15. **Bergmann, PJ**, Irschick, DJ. 2012. Vertebral evolution and the diversification of squamate reptiles. *Evolution* 66: 1044-1058.
 14. **Bergmann, PJ**, Irschick, DJ. 2010. Alternate pathways of body shape evolution translate into common patterns of locomotor evolution in two clades of lizards. *Evolution* 64: 1569-1582.
 13. **Bergmann, PJ**, Meyers, JJ and Irschick, DJ. 2009. Directional evolution of stockiness co-evolves with ecology and locomotion in lizards. *Evolution* 63: 215-227.
 12. Lahr, DJG, **Bergmann, PJ**, and Lopes SBGC. 2008. The taxonomic identity in microbial eukaryotes: a practical approach using the testate amoeba *Centropyxis* to resolve conflicts between old and new taxonomic descriptions. *Journal of Eukaryotic Microbiology* 55: 409-416.
 11. **Bergmann, PJ** and Russell, AP. 2007. Systematics and biogeography of the widespread Neotropical gekkonid genus *Thecadactylus* (Squamata), with the description of a new cryptic species. *Zoological Journal of the Linnean Society* 149: 339-370.
 10. **Bergmann, PJ** and Irschick, DJ. 2006. Effects of temperature on maximum acceleration, deceleration, and power output during vertical running in geckos. *Journal of Experimental Biology* 209: 1404-1412.
 9. **Bergmann, PJ**, Melin, AD* and Russell, AP. 2006. Differential segmental growth of the vertebral column of the rat (*Rattus norvegicus*). *Zoology*: 109: 54-65.
 8. **Bergmann, PJ** and Irschick, DJ. 2005. Effects of temperature on maximum clinging ability in a diurnal gecko: evidence for a passive clinging mechanism? *Journal of Experimental Zoology* 303A: 785-791.
 7. Melin, AD*, **Bergmann, PJ** and Russell, AP. 2005. Mammalian postnatal growth estimates: the influence of weaning on the choice of a comparative metric. *Journal of Mammalogy* 86: 1042-1049.
 6. Kronauer, DJC, **Bergmann, PJ**, Mercer, JM and Russell, AP. 2005. A phylogeographically distinct and deep divergence in the widespread Neotropical turnip-tailed gecko, *Thecadactylus rapicauda*. *Molecular Phylogenetics and Evolution* 34: 431-437.
 5. **Bergmann, PJ**, Hobbs, AM*, Kavalench, ML* and Russell, AP. 2004. Modulated but conserved segmental growth of the original tail in *Callisaurus draconoides* (Phrynosomatidae) and *Calotes versicolor* (Agamidae). *Herpetologica* 60: 62-74.
 4. **Bergmann, PJ**, Lessard, S* and Russell, AP. 2003. Tail growth in *Chamaeleo dilepis* (Sauria: Chamaeleonidae): Functional implications of segmental patterns. *Journal of Zoology, London* 261: 417-425.

3. **Bergmann, PJ** and Russell, AP. 2003. Lamellar and scissor numbers in lizards: Patterns revealed through correlational analysis. *Amphibia-Reptilia* 24: 379-385.
2. **Bergmann, PJ** and Russell, AP. 2001. Growth of the original tail in *Anolis grahami*: Isometry of the whole is a product of regional differences. *Journal of Herpetology* 35: 232-238.
1. Russell, AP, **Bergmann, PJ** and Barbadillo, LJ. 2001. Maximal caudal autotomy in *Podarcis hispanica* (Lacertidae): The caudofemoralis muscle is not sundered. *Copeia* 2001: 154-163.

* Undergraduate student coauthors

** Graduate student coauthors

Other unrefereed contributions

6. **Bergmann, PJ**. 2013. Book Review of "Convergent Evolution: Limited Forms Most Beautiful" by G McGhee. *Quarterly Review of Biology* 87: 386.
5. **Bergmann, PJ**. 2001. The effect of human-facilitated hybridization on conservation and biodiversity in herpetoculture. *Proceedings of the 24th International Herpetological Symposium*: 15-37.
4. **Bergmann, PJ**. 1997. Multi-species enclosures: A practical solution using a quasi-ecological approach. *Proceedings of the 1st, 2nd, and 3rd Canadian Herp. Symposia*: 127-135.
3. **Bergmann, PJ**. 1997. The natural history of the Central Asian Tortoise. *Reptile Life* 1: 20-23.
2. **Bergmann, PJ**. 1996. The serpent's tail: Tooth talk. *The OphidioFile* 1: 38,29.
1. **Bergmann, PJ**. 1996. The serpent's tail. *The OphidioFile* 1: 38.

Presentations and Abstracts (Oral presentation unless otherwise noted)

49. **Bergmann, PJ**, Pettinelli, KJ*, Crockett, ME**, Schaper, EG*. 2017. The effects of granular substrate particle size on sprinting in lizards. Annual Meeting of Society for Integrative & Comparative Biology, New Orleans, LA, USA.
48. Wilbur, JJ*, Morinaga, G**, and **Bergmann, PJ**. 2017. Power analysis of a novel non-linear phylogenetic regression model. Annual Meeting of Society for Integrative & Comparative Biology, New Orleans, LA, USA. Poster.
47. Cheu, AY**, and **Bergmann, PJ**. 2017. Increasing complexity of form-function relationships when considering multiple modes of locomotion. Annual Meeting of Society for Integrative & Comparative Biology, New Orleans, LA, USA. Poster.
46. Crockett, ME**, and **Bergmann, PJ**. 2017. Running on uneven surfaces: The effect of substrate particle size and unevenness on performance. Annual Meeting of Society for Integrative & Comparative Biology, New Orleans, LA, USA. Poster.
45. Holden, RA**, Cheu, AY**, and **Bergmann, PJ**. 2017. Performance variation in basilisk lizards during different aquatic modes of locomotion. Annual Meeting of Society for Integrative & Comparative Biology, New Orleans, LA, USA. Poster.
44. **Bergmann, PJ**. 2016. Pathways of convergence of snake-like body shapes in squamate reptiles. Annual Meeting of Society for Integrative & Comparative Biology, Portland, OR, USA.

43. McElroy, EJ, McBrayer, LD, Clemente, C, and **Bergmann, PJ**. 2016. Does evolutionary convergence of ecomorphology result in convergence of performance capacity? A test using Australian and North American lizards. Annual Meeting of Society for Integrative & Comparative Biology, Portland, OR, USA.
42. Morinaga, G**, and **Bergmann, PJ**. 2016. Phenotypic variation affects burrowing performance in the Australian skink genus, *Lerista*. Annual Meeting of Society for Integrative & Comparative Biology, Portland, OR, USA.
41. Harwell, F**, Mitchell, A, and **Bergmann, PJ**. 2016. The effects of dehydration on thermoregulation and hydoregulation in three species of frogs. Annual Meeting of Society for Integrative & Comparative Biology, Portland, OR, USA. Poster.
40. **Bergmann, PJ**, Provost, M*. 2015. The effect of head shape on penetration of granular materials: An analysis of lizard mechanical models. 13th Annual Northeast Granular Materials Workshop. Clark University.
39. **Bergmann, PJ**. 2015. Patterns of convergence in the body shape of Squamate reptiles. Annual Meeting of Society for Integrative & Comparative Biology, West Palm Beach, USA.
38. Morinaga, G**, and **Bergmann, PJ**. 2015. The vertebral kinematics of convergent elongate, limb reduced squamates. Annual Meeting of Society for Integrative & Comparative Biology, West Palm Beach, USA.
37. Pettinelli, K**, and **Bergmann, PJ**. 2015. Particle size and shape affect non-steady state locomotion in a lizard (*Eremias arguta*). Annual Meeting of Society for Integrative & Comparative Biology, West Palm Beach, USA. Poster.
36. Diebboll, H**, and **Bergmann, PJ**. 2015. Environmental, biological and behavioral effects on the dehydration rates of amphibians. Annual Meeting of Society for Integrative & Comparative Biology, West Palm Beach, USA. Poster.
35. Alonso, C**, and **Bergmann, PJ**. 2015. Standardizing phylogenetically independent contrasts using estimates of phylogenetic signal. Annual Meeting of Society for Integrative & Comparative Biology, West Palm Beach, USA. Poster.
34. Mitchell, A**, and **Bergmann, PJ**. 2014. The effects of environmental temperature and moisture on temperature and moisture preferences in green frogs (*Lithobates clamitans*). Annual Meeting of Society for Integrative & Comparative Biology, Austin, USA.
33. Morinaga, G**, and **Bergmann, PJ**. 2014. Biogeography and body shape evolution in parallel radiations in the Australian skink genus, *Lerista*. Annual Meeting of Society for Integrative & Comparative Biology, Austin, USA.
32. McElroy, EJ, and **Bergmann, PJ**. 2014. Many-to-many mapping of phenotype to performance: An extension of the F-matrix for studying functional complexity. Annual Meeting of Society for Integrative & Comparative Biology, Austin, USA. Poster.
31. **Bergmann, PJ**, and Hare-Drubka, M*. 2014. Hindlimb muscle lever systems differ among joints and stride phases in basilisk lizards. Annual Meeting of Society for Integrative & Comparative Biology, Austin, USA.
30. **Bergmann, PJ**, and McElroy, EJ. 2013. Many-to-many mapping of phenotype on function, and the F-array. Annual Meeting of Society for Integrative & Comparative Biology, San Francisco, USA.

29. McElroy, EJ, and **Bergmann, PJ**. 2013. The evolution of tail size, tail autotomy, and locomotor performance in lizards. Annual Meeting of Society for Integrative & Comparative Biology, San Francisco, USA.
28. Gaudreau, MG**, and **Bergmann, PJ**. 2013. Patterns of abiotic niche evolution in salamanders along different niche axis spatial scales. Annual Meeting of Society for Integrative & Comparative Biology, San Francisco, USA. Poster.
27. McElroy, EJ, and **Bergmann, PJ**. 2012. The impact of tail loss on locomotor performance. 7th World Congress of Herpetology, Vancouver, Canada.
26. **Bergmann, PJ**, and Berk, CP*. 2012. Evolution and integration of weapons in horned lizards (*Phrynosoma*). Annual Meeting of Society for Integrative & Comparative Biology, Charleston, USA.
25. **Bergmann, PJ**, and Berk, CP*. 2011. The evolution of defensive horn allometry in horned lizards (*Phrynosoma*). Annual Meeting of Society for the Study of Evolution, Norman, USA.
24. **Bergmann, PJ**. 2010. Characterizing macroevolution: The degree of clustering in phylomorphospace. Annual Meeting of the Society for the Study of Evolution, Portland, USA.
23. **Bergmann, PJ**, Irschick DJ. 2010. Tempo and mode of axial evolution: Is body elongation a key innovation? Annual Meeting of the Society for Integrative and Comparative Biology, Seattle, USA.
22. **Bergmann, PJ**, Irschick DJ. 2009. Alternate pathways in the evolution of body shape and locomotion in lizards. Annual Meeting of the Society for Integrative and Comparative Biology, Boston, USA.
21. **Bergmann, PJ**. 2008. Reduced constraint on vertebral number facilitates the diversification of lizards. Annual Meeting of the Canadian Society of Zoologists, Halifax, Canada. Abstract: Bull. Canadian Soc. Zool. 29(2): 79.
20. **Bergmann, PJ**, Irschick, DJ. 2008. Conservatism in lizard vertebral number evolution is widespread but not universal. Annual Meeting of the Society for Integrative and Comparative Biology, San Antonio, USA.
19. **Bergmann, PJ**, Meyers, JJ and Irschick, DJ. 2007. Tests of directional evolution in body proportions in lizards. Annual Meeting of the Canadian Society of Zoologists, Montreal, Canada. Abstract: Bull. Canadian Soc. Zool. 38(2): 65.
18. **Bergmann, PJ**, Meyer, JJ and Irschick, DJ. 2006. Evolving to be short and stubby: orthogenesis and grades of evolution in body plan in lizards. Annual Meeting of the Society for Integrative and Comparative Biology, Phoenix, USA.
17. **Bergmann, PJ** and Irschick, DJ. 2005. The temperature-dependence of sprinting performance in day geckos (*Phelsuma dubia*). Annual Joint Meeting of the Ichthyologists and Herpetologists, New Orleans, USA.
16. **Bergmann, PJ** and Irschick, DJ. 2005. The temperature-dependence of clinging and sprinting ability in day geckos. Annual Meeting of the Society for Integrative and Comparative Biology, Orlando, USA. Abstract: Integr. Comp. Biol. 45: 964.
15. **Bergmann, PJ** and Russell, AP. 2004. Patterns of variation in relation to tail morphology, vertebral number and tail length in lizards. Abstract: Integr. Comp. Biol. 44: 524.

14. **Bergmann, PJ** and Russell, AP. 2004. Use of principal component analysis in modeling growth of segmental structures. International Congress of Vertebrate Morphology 7, Boca Raton, USA. Abstract: Journal of Morphology 260: 278.
13. Russell, AP, **Bergmann, PJ** and Melin, A*. 2004. Segmental and regional growth in the rat vertebral column. Abstract only: Journal of Morphology 260: 324.
12. **Bergmann, PJ** and Russell, AP. 2003. Application of Bayesian inference in the phylogenetic analysis of multiple data sources: intraspecific systematics of the turnip-tailed gecko. Annual Meeting of the Society for Integrative and Comparative Biology, New Orleans, USA. Abstract: Integr. Comp. Biol. 43: 830.
11. **Bergmann, PJ** and Russell, AP. 2003. As patterns breakdown: Conservatism in segmental tail growth of lizards. Annual Meeting of the Canadian Society of Zoologists, Lethbridge, Canada. Abstract: Bull. Canadian Soc. Zool. 34(2): 28.
10. Russell, AP and **Bergmann, PJ**. 2003. Telling tails: Patterns of caudal growth among iguanian lizards. Abstract: Bull. Canadian Soc. Zool. 34(2): 91.
9. **Bergmann, PJ** and Russell, AP. 2002. Growth of the original tail in iguanian lizards: Are segmental patterns of growth conserved? Annual Meeting of the Society for Integrative and Comparative Biology, Toronto, Canada. Abstract: Integr. Comp. Biol. 42: 1195.
8. **Bergmann, PJ** and Russell, AP. 2002. Phylogenetic and ecological aspects of hindlimb segment growth patterns in various lizards. Annual Meeting of the Canadian Society of Zoologists, Lethbridge, Canada. Abstract: Bull. Canadian Soc. Zool. 33: 41.
7. **Bergmann, PJ** and Russell, AP. 2002. Differential tail growth in the lizard *Anolis grahami*. Prairie Universities Biological Symposium, Calgary, Canada.
6. **Bergmann, PJ** and Russell, AP. 2002. Patterns of hindlimb segment growth in various lizards and their relation to lizard ecology. Annual Meeting of the Society for Integrative and Comparative Biology, Anaheim, USA. Abstract: American Zoologist 41: 1390-1391.
5. **Bergmann, PJ** and Russell, AP. 2001. A test of the assumption of isometric tail growth and possible implications for morphometrics and functional ecology. Annual Meeting of the Society for the Study of Amphibians and Reptiles and the Herpetologists' League, Indianapolis, USA.
4. **Bergmann, PJ** and Russell, AP. 2001. Unusual systematic and biogeographic characteristics of *Thecadactylus rapicauda* (Squamata: Gekkonidae): A proposed program of study with comments on some methodological problems. Annual Meeting of the Society for the Study of Amphibians and Reptiles and the Herpetologists' League, Indianapolis, USA. Poster.
3. **Bergmann, PJ**. 2000. The effect of human-facilitated hybridization on conservation and biodiversity in herpetoculture. International Herpetological Symposium, New Orleans, USA.
2. **Bergmann, PJ**. 1999. Hybridization, domestication, and conservation – Biological implications of inadvertent actions. Canadian Herpetological Symposium, Drumheller, Canada.
1. **Bergmann, PJ**. 1997. Multi-species enclosures: A practical solution using a quasi-ecological approach. Canadian Herpetological Symposium, Drumheller, Canada.

* Undergraduate student coauthors

** Graduate student coauthors

Invited Seminars

12. Clark University Physics. Complexity in relationships between form, function, and habitat use. Spring 2016.
11. Univ. of Massachusetts Amherst. Complexity in relationships between form, function, and habitat use. Fall 2015.
10. College of Charleston. Phenotype-function-niche relationships. Fall 2014.
9. University of Massachusetts Boston. Phenotype-function-niche relationships. Fall 2014.
8. Worcester Polytechnic Institute. Phenotype-function-niche relationships. Fall 2013.
7. Clark University, Active Matter Group. A biomechanical perspective of sprawling locomotion. Summer 2011.
6. Clark University. The evolution of body shape in segmented animals. Spring 2010.
5. University of Arizona. Characterizing macroevolution: Tempo and mode of vertebral and body shape evolution in lizards. Spring 2010.
4. University of Northern Iowa. The evolution of body shape in segmented animals. Fall 2009
3. University of Massachusetts Amherst. A phylogenetic and functional approach to the study of evolution of body shape in lizards. Summer 2008.
2. University of Arizona. The evolution of body shape in segmented animals. Spring 2008.
1. Brown University. The evolution and development of tail length in lizards. Fall 2005.

Professional Memberships

- Society for the Study of Evolution
- Society for Integrative and Comparative Biology
- Society for the Study of Amphibians and Reptiles
- Canadian Society of Zoologists

Service

- **Clark University Committees**
 - Research Board. University Level. 2016-Present.
 - Biology Graduate Studies Committee. Departmental. 2011-Present.
 - Chair of the committee: 2015-Present.
 - Animal Care Committee. University Level. 2011-Present.
 - Co-chair of the committee: 2014-16.
 - Chair of the committee: 2016-Present.
 - Environmental Science Steering, Biology Rep. Interdepartmental. 2012-Present.
 - Biology Faculty Search Committee. University Level. 2017-18
 - Physics Faculty Search Committee. University Level. 2016-17
 - Biology seminar series organizer. Departmental. 2012-14.
 - Biology Faculty Search Committee. University Level. 2011-12.

- **Graduate Student Committees**
 - Chair: Amy Cheu, PhD. 2015-Present.
 - Chair: Gen Morinaga, PhD. 2012-Present.
 - Chair: Mandy Gaudreau, PhD. 2012-13.
 - Dale Stevevs, PhD. 2017-Present.
 - Miguel Reyes, PhD. 2012-16.
 - Mitchell Nuhn, PhD. 2011-16.
 - Chair: Marian Crockett, MS. 2016-17.
 - Chair: Robert Holden, MS. 2016-17.
 - Chair: Faye Harwell, MS. 2015-2016.
 - Chair: Cynthia Alonso, MS. 2014-2015.
 - Chair: Hannah Diebboll, MS. 2013-2015.
 - Chair: Kyle Pettinelli, MS. 2012-16.
 - Chair: Allegra Mitchell, MS. 2013-2014.
 - Chair: Natasha Tchamitchian, MA. 2011-2013.
 - Nicholas Pagan, MS. 2017.
 - Tina Vo, MS. 2017.
 - Amanda Fragata, MS. 2017.
 - Michele Corbet, MS. 2016.
 - Max Nyquist, MS. 2016.
 - Max (Waldie) Anderson, MS. 2015.
 - Katherine McMahon, MS. 2015.
 - Matthew Thompson, MS. 2015.
 - Laura Uricoli, MS. 2015.
 - Ashley Blau, MA. 2012.
 - Shannon O'Neal, MA. 2012.
 - Anders Ohman, MA. 2011.
 - Alicia Burrows, MA. 2011.
- **Other Clark University Service**
 - University Open Houses: Spring: 2011-15, 2017; Fall: 2014-17.
 - Wrote Graduate Studies section of Biology self-study. 2017.
 - LEEP Exemplar Group on Capstones, 2016.
 - Animal Welfare Assurance renewal, 2014, 2018.
 - Organized Bumpus Symposium for Biology Grad Student Research. 2013-14.
 - Participated in writing Graduate Studies section of Department Plan. 2012.
 - CETL Workshop on Collaborating in the Classroom, Presenter. Apr 2012.
 - LEEP Workshop on Teaching Approaches, Attendee. Fall 2011.
 - LEEP Symposium, Participant. May 2011.
 - Biology Representative - Science Librarian search interviews. Apr 2011.
- **Reviewer** for 35 journals (83 manuscripts, 58 while at Clark): American Naturalist (1), Anatomical Record (1), Animal Behaviour (1), Axios (1), Belgian Journal of Zoology (2), Biological Journal of the Linnean Society (1), Biology Letters (1), BMC Ecology (1), BMC Evolutionary Biology (7), Book chapters (2), Canadian Journal of Zoology (1), Ecology (1), Ethology (2), Evolution (5), Evolutionary Biology (5), Folia Zoologica (1), Functional Ecology (4), Herpetologica (2), Insects (1), Journal of Experimental Biology (6), Journal of Experimental Zoology A (2), Journal of Herpetology (2), Journal of Morphology (5), Journal of Orthoptera Research (1), Molecular Phylogenetics and Evolution (3), Oecologia (2), Philosophical Transactions of the Royal Society B (2 issue proposals), Physiological & Biochemical Zoology (3), PLoS One (1), Proceedings of the Royal Society B (2), Quarterly Review of Biology (1), Springer Verlag (2 - book proposals), Southeast Naturalist (1),

Zoological Journal of the Linnean Society (2), Zoologica Scripta (1), Zoology (6), and Zootaxa (1).

- **Reviewer** of Grant Proposals. National Science Foundation: Ad Hoc review of full proposals (4). Louisiana Board of Regents (1).
- **Faculty External Reviews:** National Research Foundation of South Africa (1).
- **K-12 Outreach**
 - Lecture on Fieldwork for Upward Bound program students. Summer 2014 (20 high school students).
 - Demonstration of anatomy and dissection to grade 9 students from UPCS. 2011-17 (40 students per year).
 - Functional Anatomy workshops for Upward Bound program students. Summer 2013, 2015 (12 high school students).
 - College Preparedness Workshop participant. Spring 2014. Discussion with Claremont Academy and UPCS teachers of what students need to succeed in STEM at the college level.
- **Judging student oral presentations & posters** at the 2006, 2010, 2012, 2013 at the Annual Meeting of the Society for Integrative and Comparative Biology.