

# CURRICULUM VITAE

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## **Paulyn Cartwright**

*Department of Ecology and Evolutionary Biology  
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Lawrence, KS 66045*

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### **CURRENT POSITION** (since January 2005):

Assistant Professor, University of Kansas, Department of Ecology and Evolutionary Biology

### **FIELD OF SPECIALIZATION:** Invertebrate Zoology

**RESEARCH INTERESTS:** Medusozoan phylogeny, hydrozoan development and evolution, biogeography and macroevolution

### **EDUCATION**

- 1997-2000 NSF Sloan Postdoctoral Fellow in Molecular Evolution. Advisors: Dr. Elizabeth Kellogg (Harvard University) and Dr. Michael Christianson (University of Kansas).
- 1991-1997 Ph.D. Department of Biology, Yale University. Thesis title: Characterization of a Hox gene, Cnox-2, and the evolution of coloniality in Hydrozoa (Phylum Cnidaria). Advisor, Dr. Leo W. Buss.
- 1985-1990 B.S. in Biology, University of California, Los Angeles.

### **PROFESSIONAL POSITIONS AND APPOINTMENTS**

- 2005-present Adjunct Research Associate, KU Natural History Museum and Biodiversity Research Center.
- 2004-2005 Research Affiliate, Yale University, Department of Ecology and Evolutionary Biology.
- 2003-2004 Courtesy Research Associate, University of Kansas, Department of Ecology and Evolutionary Biology,
- 1999-2004 Instructor, University of Kansas, Division of Biological Sciences.
- 1990-1991 Lab Manager, Molecular Systematics Lab, American Museum of Natural History.

### **ACADEMIC HONORS AND AWARDS**

- 2009 Louise Byrd Graduate Educator Award, University of Kansas.
- 1994-1996 G. Evelyn Hutchinson Award, Yale University.
- 1991-1994 Rudin Doctoral Fellowship, American Museum of Natural History.

### **GRANTS AWARDED**

- 2009-2011 NSF DEB-0910211: "DISSERTATION RESEARCH: Aplanulata (Cnidaria: Hydrozoa): A Model Clade for Investigating the Evolutionary and Developmental Basis of Hydrozoan Body Plan Diversity" \$14,991, with co-PI Annalise Nawrocki.
- 2009-2011 NSF DEB-0910237 "DISSERTATION RESEARCH: Biogeography of Open Ocean Hydrozoans (Cnidaria: Medusozoa)" \$14,990, with co-PI Bastian Bentlage.
- 2005-2010 NSF AToL, DEB 05-31799 "Assembling the tree of life-An integrative approach to investigating cnidarian phylogeny" \$2,854,116 (\$1,610,000 to KU), PI with co-PIs Daphne Fautin and Allen Collins.
- 2007-2008 REU supplement to DEB 05-31799 (\$12,000), co-PI Daphne Fautin.
- 2006-2007 REU supplement to DEB 05-31799 (\$6,000), with co-PI Daphne Fautin.

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- 2003 NSF DEB 0306765 Evolution of Developmental Mechanisms: Funding for symposium on cnidarian axial patterning, \$5,000.  
1997-2000 NSF-Sloan Postdoctoral Fellowship in Molecular Evolution, \$80,000.  
1992 Lerner-Gray Fund for Marine Research, \$800.

### INTERNAL FUNDING

- 2009-2010 EEB Graduate Research Funds “Expression of gustatory genes in the sea anemone, *Nematostella vectensis* (\$14,062), co-PI Jennifer Gleason.  
2008 College Faculty Professional Development Travel Fund to travel to La Paz, Mexico (\$900).  
2007 New Faculty Graduate Research Fund “Phylogenetic position and phylogeographic patterns in the parasite, *Polypodium hydriforme*” (\$7,516).  
2007 College Faculty Professional Development Travel Fund to travel to Plymouth England (\$2000).  
2007 Instructional Technology Funds for stereoscope for the developmental biology lab (\$5,000).  
2006 Instructional Technology Funds for a microscope camera for the developmental biology lab (\$11,720).  
2006 College Faculty Professional Development Travel Fund to travel to Beijing China (\$2000).  
2005-2006 EEB Graduate Research Funds, “A genetic approach to the isolation and characterization of developmental regulatory genes in the sea anemone *Nematostella* (Cnidaria: Anthozoa)” (\$11,873).  
2005 International Travel Fund, Office of International Programs, for travel to Tutzing Germany (\$800).

### COURSES TAUGHT

- Evolutionary Biology (Biol. 412), 3 credits (50%), University of Kansas, Fall 2006, 2007, 2008  
Developmental Biology Laboratory Course (Biol. 427), 2 credits (100%), University of Kansas, Fall 2008  
Metazoan Phylogeny (Biol. 801), 1 credit (100%), University of Kansas, Spring 2008  
Principles of Biology (Biol. 100), 3 credits, University of Kansas, Fall 1999-2001 (50%), Spring 2002, 2003, 2005, 2006 (100%), Fall 2007 (30%)  
Evolutionary Developmental Biology Graduate Seminar (Biol. 701), 3 credits (50%), University of Kansas, Spring 2007  
Cnidarian Seminar (Biol. 420/701), 3 credits (50%), University of Kansas, Fall 2006  
Developmental Biology Laboratory Course (Biol. 418), 2 credits (100%), University of Kansas, Fall 2003  
Biology of Development (Biol. 417), 3 credits (100%), University of Kansas, Fall 2002  
Principles of Embryology (Biol. 590), 3 credits (50%), University of Kansas, Spring 2000, 2001  
Introductory Biology Laboratory, 3 credits (100%), Yale University, Summer 1993, 1994

### PROFESSIONAL SOCIETIES

- Society of Systematic Biologists, 1995-present  
American Association for the Advancement of Science, 1998-present  
Society for Developmental Biology, 1999-present  
Sigma Xi, 1999-present  
Society for Integrative and Comparative Biology, 1999-present  
Society for the Study of Evolution, 1994-1999

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### BIBLIOGRAPHY: PEER REVIEWED JOURNAL ARTICLES

1. Bentlage, B, **Cartwright, P.**, Yanagihara, A. A. Lewis' C, Richards' G and Collins, A.G. (submitted) Evolution of box jellyfishes (Cnidaria: Cubozoa), a group of highly toxic invertebrates. Proc. R. Soc. B.
2. Nawrocki, A.M., Schuchert, P. and **Cartwright, P.** (submitted) Phylogenetics and evolution of Capitata (Cnidaria: Hydrozoa), and the status of the family Corynidae. Zoological Scripta.
3. Nawrocki, A.M., Barbeitos, M.S. and **Cartwright, P.** (submitted) Re-evolution of medusae in Aplanulata (Cnidaria: Hydrozoa): Dollo's law revisited. Systematic Biology.
4. Bentlage, B., Peterson, A.T., and **Cartwright, P.** (2009) Inferring distributions of chirodropid box-jellyfishes (Cnidaria: Cubozoa) in geographic and ecological space using ecological niche modeling. Mar Ecol Prog Ser. 384: 121-133.
5. **Cartwright, P.**, Evans, N.M., Dunn, C.W., Marques, A.C., Miglietta, M.P. and Collins, A.G. (2008). Phylogenetics of Hydroidolina (Cnidaria, Hydrozoa). J. Mar. Biol. Assoc. 88(8): 1163-1672.
6. Collins, A.G., Bentlage, B., Lindsay D., Haddock' S.H.D., Lindner, A., Norenburg' J.L., Jarms, G., Jankowski, T. and **Cartwright, P.** (2008) Phylogenetics of Trachylina (Cnidaria, Hydrozoa). J. Mar. Biol. Assoc. 88:1673-1685
7. Evans, N.M., Lindner, A., Raikova, E.V., Collins, A.G. and **Cartwright, P.** (2008) Phylogenetic placement of the enigmatic parasite, *Polypodium hydriforme*, within the phylum Cnidaria. BMC Evol. Biol. 8:139. Correction: (2009) BMC Evol Biol 9:165
8. **Cartwright, P.** and Collins, A.G. (2007) Class Hydrozoa. In: *The phylum Cnidaria: A review of phylogenetic patterns and diversity three hundred years after Linnaeus* by Daly, M., Brugler, M.R., **Cartwright, P.** Collins, A.G., Dawson, M.N, France, S.C, McFadden, C.S., Opresko, D.M., Rodriguez, E., Romano, S. and Stake, J. Zootaxa 1668:153-168.
9. **Cartwright P.**, Halgedahl S.L., Hendricks J.R., Jarrard R.D., Marques A.C., Collins, A.G. and Lieberman, B.L. (2007) Exceptionally Preserved Jellyfishes from the Middle Cambrian. PLoS ONE 2(10): e1121: p.1-9.  
*Note, article featured in on or around October 30 - November 6, 2007 on over 30 online and print news publications including:*
  - National Science Foundation Website, Press Release 07-159
  - Nature, Research highlights, Vol. 450, 15 November 2007, p. 323
  - National Geographic News, <http://news.nationalgeographic.com/news/2007/10/071031-jellyfish.html>
  - MSNBC.com, <http://www.msnbc.msn.com/id/21552161/>
  - The New York Times, Science Times, in print and online,,  
<http://www.nytimes.com/2007/11/06/science/06objell.html?ex=1352091600&en=2648029a809334b2&ei=5088&partner=rssnyt&emc=rss>
  - Geotimes, Research in the News, December 2007, vol. 52(12): 13.
  - Yahoo! News,  
[http://fe8.news.re3.yahoo.com/s/livescience/20071030/sc\\_livescience/oldestknownjellyfishfos silsfound](http://fe8.news.re3.yahoo.com/s/livescience/20071030/sc_livescience/oldestknownjellyfishfos silsfound)
  - San Francisco Chronicle, <http://www.sfgate.com/cgi-bin/article.cgi?file=/c/a/2007/11/05/MN6NT5D99.DTL>
  - Sao Paulo Brazil's largest newspaper,  
<http://www1.folha.uol.com/br/fsp/ciencia/fe0511200701.htm>
10. **Cartwright, P.** and Collins A.G. (2007) Fossils and phylogenies: integrating multiple lines of evidence to investigate the origin of early major metazoan lineages. Integ. Comp. Biol. 47(5):744-751.
11. **Cartwright, P.**, Schierwater, B., and Buss, L.W. (2006) Expression of a Gsx parahox gene in colony ontogeny in Hydractinia (Cnidaria: Hydrozoa). Journ. Exp. Zool. (Mol Dev Evol). 306B:460-469.
12. Collins, A.G., **Cartwright, P.**, McFadden, C.S. and Schierwater, B. (2005) Phylogenetic Context and

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- Basal Metazoan Model Systems. *Integ. Comp. Biol.* 45:585-594.
13. **Cartwright, P.** (2004) Development and evolution of hydrozoan polyp and colony form. *Hydrobiologia* 530:309-317.
  14. Fautin, D.G., Westfall, J.A., **Cartwright, P.**, Daly, M. and Wyttenbach, C.R., editors. (2004) *Coelenterate Biology 2003: Trends in Research on Cnidaria and Ctenophora*. Kluwer, The Netherlands.
  15. **Cartwright, P.** (2003) Developmental Insights into the Origin of Complex Colonial Hydrozoans. *Integ. Comp. Biol.* 43:82-86.
  16. **Cartwright, P.**, Bowsher, J., and Buss, L.W. (1999) Expression of the HOX type gene, *Cnox-2*, and the division of labor in a colonial hydroid. *Proc. Natl. Acad. Sci. USA* 96: 2183-2186.
  17. **Cartwright, P.**, and Buss, L.W. (1999) Colony integration and the expression of the Hox gene, *Cnox-2*, in *Hydractinia symbiolongicarpus* (Cnidaria: Hydrozoa). *Journ. Exp. Zool. (Mol Dev Evol)* 285:57-62.
  18. Martinez, D., Bridge, D., Nakagawa, L.M., **Cartwright, P.** (1998) Cnidarian Homeoboxes and the Zootype. *Nature*. 393 (6687): 748-749.
  19. **Cartwright, P.** (1998) Cnidarian Homeoboxes and the Zootype. *Nature* 393 (6687):748-749.
  20. Wagner, A., Blackstone, N., **Cartwright, P.**, Dick, M., Misof, B., Snow, P., Wagner, G., Bartels, J., Murtha, M., Pendleton, J. (1994) Surveys of gene families using polymerase chain reaction: PCR selection and PCR drift. *Syst. Biol.* 43:250-260.
  21. **Cartwright, P.**, Dick, M. and Buss, L.W. (1993) HOM/Hox type homeoboxes in the chelicerate *Limulus polyphemus*. *Mol. Phylo. Evol.* 2:185-192.
  22. Wheeler, W.C., **Cartwright, P.** and Hayashi, C.Y. (1993) Arthropod phylogeny: A combined approach. *Cladistics* 9:1-39.

### BIBLIOGRAPHY: POPULAR PUBLICATIONS

1. **Cartwright, P.** (2002) Embryology. In N.E. Eldredge (ed.), *Life on Earth: An Encyclopedia of Biodiversity, Ecology, and Evolution*, pp.308-312. ABC-CLIO, Inc, Santa Barbara, CA.
2. **Cartwright, P.**, Kaesler, R. L., Lieberman, B. S., Melott, A. L. (2000) A Kansan's Guide to Science: An introduction to evolution and the nature of science, including origins of the universe and the Earth and the history of life. Kansas Geological Survey Educational Series: 15: 1-19.

### INVITED SYMPOSIA, INVITED TALKS, CONTRIBUTED TALKS, CONTRIBUTED POSTERS AND PUBLISHED ABSTRACTS (\* = speaker/presenter)

1. Bentlage, B.\*, Peterson, A.T., Li, X. Collins, A.G. and **Cartwright, P.** "Biogeography of open ocean jellyfishes: integrating ecological niche modeling and phylogeography in a 3D environment" 10th International Congress of Ecology. Brisbane, Australia. Invited symposium. August 2009.
2. **Cartwright, P.\*** "Phylogeny, fossils and developmental evolution in Hydrozoa (Phylum Cnidaria)." Seminar Series, Department of Ecology, Evolution and Organismal Biology, Iowa State University, Ames, IA. Invited speaker. March, 2009.
3. **Cartwright, P.\*** "Patterns and Processes in Medusozoan Evolution." Biology Seminar Program, Department of Biology, University of Vermont. Burlington, VT. Invited speaker. November 2008.
4. Bentlage, B.\*, Collins, A.G. and **Cartwright, P.** "Phylogenetics and environmental space occupation of box-jellyfishes (Cnidaria: Cubozoa)." Evolution Meetings. Minneapolis, MN. Contributed talk. June 2008.
5. Evans, N.M.\* and **Cartwright, P.** "Phylogenetic placement of the enigmatic sturgeon parasite *Polypodium hydriforme*." Evolution Meetings. Minneapolis, MN. Contributed talk. June 2008.
6. Nawrocki, A.M.\*, Barbeitos, M.S. and **Cartwright, P.** "Evidence for the re-evolution of complex traits in close relatives of *Hydra*." Evolution Meetings. Minneapolis, MN. Contributed talk. June 2008.
7. Barbeitos, M.S.\*, Collins, A.G. and **Cartwright, P.** "Incorporating RNA secondary structure

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- information into phylogenetics analysis of the Hydroidolina (Cnidaria:Hydrozoa).” Evolution Meetings. Minneapolis, MN. Contributed poster. June 2008.
8. **Cartwright, P.\***, Blackstone, N.W., Collins, A.G., Daly, M., Dunn, C.W., Fautin, D.G. and Mcfadden, C.S. “CnidTol-An Integrative Approach to Investigating Cnidarian Phylogeny.” ATOL Principal Investigator Meeting, New Orleans, LA. Invited poster. March, 2008.
  9. **Cartwright, P.\***. “Fossils, Phylogenies and Development: Insights into Medusozoan Evolution.” EEB seminar series, School of Biological Sciences, University of Nebraska. Lincoln, NE. Invited speaker. October 2007.
  10. **Cartwright, P.\*** Evans, N.M., Lindner, A., Schuchert, P., Marques, A.C. and Collins, A.G. “Molecular Phylogenetics of Hydroidolina.” Invited Talk. 6<sup>th</sup> Workshop of the Hydrozoan Society (session chair) (published abstract). Plymouth UK. June 2007.
  11. Collins, A.G.\*, Bentlage, B., Haddock, S.H.D., Jankowski, T., Lindsay, D.J., and **Cartwright, P.** “Phylogenetics of Trachylina.” Invited Talk. 6<sup>th</sup> Workshop of the Hydrozoan Society (published abstract). Plymouth UK. June 2007.
  12. Nawrocki, A.M.\* and **Cartwright, P.** “Phylogenetic Placement of Hydra: Evidence from Nuclear and Mitochondrial Markers.” International Workshop, “Hydra and Development of Animal Form”, Tutzing Germany, Invited symposium (published abstract). September, 2007
  13. **Cartwright, P.\*** “Origin and Evolution of Medusozoa.” EEOB seminar series, Ohio State University, Columbus, OH. Invited Speaker. April 2007.
  14. Collins, A.G and **Cartwright P.\*** “Rocks and Clocks: Integrating Fossils and Molecules to Date Transitions in Early Animal Evolution.” Society for Integrative and Comparative Biology, Key Transitions in Animal Evolution Symposium. Phoenix, AZ. Invited symposium (published abstract). January 2007.
  15. Bentlage, B.\* Collins, A.G. and **Cartwright, P.** (2007) “Prospects of molecular systematics for Cubozoa.” 2<sup>nd</sup> International Jellyfish Blooms Symposium. Gold Coast, Australia. Contributed poster. June 2007.
  16. **Cartwright, P.\*** “Patterns and Processes in the Phylum Cnidaria: Evidence from Phylogeny, Development and Fossils.” 2<sup>nd</sup> International Paleontological Congress, special session on Evo-Devo, Paleontology and Evolution. Beijing, China, Invited symposium. (published abstract). June 2006.
  17. Collins, A.G.\*, **Cartwright P.** and Evans, N., “Estimating Divergence Times Within Medusozoa (Cnidaria) Using Molecular Divergence Rates and Fossil Calibrations” Evolution Meetings, Stony Brook, NY. Contributed talk. June 2006.
  18. Marques, A.C\*., Maronna, M.M., Collins, A.C., Migotto, A.E., and **Cartwright, P.** ”Phylogenetic Analyses of the Medusozoa (Cnidaria): Effects of Sensitivity Analyses and Different Molecular Markers” Evolution Meetings, Stony Brook, NY. Contributed talk. June 2006.
  19. **Cartwright, P.\*** and Anderson, K. “Regeneration and tissue dynamics in the adult polyp of the sea anemone *Nematostella vectensis*.” International Workshop, “Hydra and the molecular logic of regeneration.” Tutzing Germany, Invited symposium (published abstract). September 2005.
  20. **Cartwright, P.\*** “Evolutionary Patterns and Developmental Processes in the Hydrozoa.” Boston University Ecology, Behavior & Evolution Seminar Series. Invited speaker. November 2004.
  21. **Cartwright, P.\*** “Patterns and processes of hydrozoan polyp and colony evolution.” Society for Integrative and Comparative Biology, Model Systems for the Basal Metazoa Symposium. New Orleans, LA. Invited symposium (published abstract). January 2004.
  22. **Cartwright, P.\*** “Patterning along a stolon: The regulation of colony form.” The 7<sup>th</sup> International Conference on Coelenterate Biology: Cnidarian Axial Patterning. Lawrence, KS. Invited symposium (published abstract). July 2003.
  23. **Cartwright, P.\*** “Developmental insights into the evolution of colonial hydrozoans.” University of Kansas, Department of Ecology and Evolutionary Biology seminar series. Invited speaker. February 2003.
  24. **Cartwright, P.\*** “Hox Genes, Hydroids, and Colonial Integration.” Society for Integrative and

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- Comparative Biology: New Perspectives on the Origin of Metazoan Complexity. Anaheim, CA. Invited symposium (published abstract). January 2002.
25. **Cartwright, P.\*** “A Molecular Approach to the Study of the Evolution of Life Cycles. University of Kansas, Evolutionists.” Invited Speaker. March 2000.
  26. **Cartwright, P.\*** “The Evolution of Sex Determination in Grasses.” New England Society for Development Biology, Evolution of Development Symposium. Woods Hole. Invited symposium. November 1998.
  27. **Cartwright, P.\*** “Expression of a HOM/Hox type gene and the evolution of coloniality in *Hydractinia* (Phylum Cnidaria).” Harvard University, Population Biology Seminar. Invited speaker. October 1996.
  28. **Cartwright, P.\*** “HOM/Hox type gene expression and polyp polymorphism in a colonial hydroid.” SDB/NSF symposium on the Evolution of Development. Bodega Marine Laboratory. Invited symposium (published abstract). June 1995.
  29. **Cartwright, P.\***, Wernegreen, J., and Shenk, A. “Comparative expression of the HOM/Hox type gene, *Cnox2*, in athecate hydroids/hydromedusae.” 5th International workshop on hydroid development. Gunzburg, Germany. Invited symposium (published abstract). September 1993.

### ELECTRONIC DATA DESSEMINATION

Assembling the Cnidarian Tree of Life project website. <http://cnidtol.com/> - co-designed and added content in collaboration with A.G. Collins (co-PI), M.S. Barbeitos (postdoc) and G. Villagomez (undergraduate).

Co-Designed the Cnidarian Tree of Life specimen and DNA sequence database in Access <http://cnidtol.com/node/90> with M.S. Barbeitos (postdoc) and G. Villagomez (undergraduate).

### PROFESSIONAL SERVICE

#### Grant panels

NSF Assembling the Tree of Life Panel  
NSF Systematics panel

#### Workshops and working groups

- 2009 Assembling the Cnidarian Tree of Life Annual Organizational Meeting (organizer), Walpole, MN.
- 2008 Assembling the Cnidarian Tree of Life Annual Organizational Meeting, La Paz, Mexico.
- 2007 Assembling the Cnidarian Tree of Life Annual Organizational Meeting, St. Johns, VI.
- 2007 AToL/BOLI workshop, National Evolutionary Synthesis Center (NECENT) in Durham, NC.
- 2006 Assembling the Cnidarian Tree of Life Annual Organizational Meeting (organizer), Stony Brook, NY.
- 2006 NSF Annual meeting for AToL, PBI and CIPRIS PI's, Duke University.
- 2005 Constructing the Cnidarian Tree of Life Database.

#### Meeting organizer:

- 2003 Symposium: “Cnidarian Axial Patterning” at the 7<sup>th</sup> International Conference for Coelenterate Biologists.
- 2002 Organizing Committee for the 7<sup>th</sup> International Conference for Coelenterate Biologists.

#### Editorships and editorial Boards:

2007-present *Integrative and Comparative Biology* editorial board member and representative for the Division of Evolutionary Developmental Biology.

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### Advisory boards:

2007-2009 NSF project on Academic Persistence in female science, technology, engineering and math majors, PI's Barbara Kerr and Karen Mullen, University of Kansas.

### Grants reviewed for:

NSF Systematics, NSF ATOL, NSF Developmental Mechanisms, NSF Functional and Regulatory Systems, Science Foundation Ireland, The Leverhulm Trust

### Journal articles reviewed for:

*Current Biology, Systematic Biology, Molecular Phylogenetics and Evolution, Journal of Marine Biological Association, American Journal of Botany, Integrative and Comparative Biology, PLoSGenetics, Invertebrate Biology, Molecular Biology and Evolution, Journal of Parasitology*

### **DEPARTMENTAL, SCHOOL, AND UNIVERSITY SERVICE**

2009 EEB graduate program committee  
2008-present EEB executive committee  
2009 Search committee, Research Assistant for Blumensteil  
2009 Co-organizer, EEB systematics discussion group  
2006-2008 CLAS Sabbatical committee  
2006-2007 EEB, External Review Committee  
2007 Faculty search committee for Evolutionary Genomics  
2007 Co-organizer, EEB systematics discussion group  
2006 Divisional Search committee for director of laboratories  
2006 Search committee, Research Assistant for Hileman  
2006 REU selection committee  
2006 Animal Tree of Life Education project consultant  
2006 Search Committee, Postdoctoral research for Skalski  
2005 Co-Organizer, KU Evolutionists  
2005-2006 EEB New Directions Committee,  
2005-2006 Undergraduate Education and Research Committee  
2005 Faculty panel for Graduate Student Orientation  
2005 Bi-Departmental Committee on GTAs and Lecture courses  
2005 Research presentation to the Biology Alumni Board  
2003, 2004 University of Kansas Commencement Procession Marshall  
2002 Selection Committee for EEB REU summer program.

### **GUEST LECTURES**

Biol 100: Biology 100, Fall 2008  
Biol 540: General Invertebrate Zoology, Spring 2008  
Biol 545: Evolution of Development, Spring 2006, 2008  
Biol 419: Topics in Advanced Biology, Spring 2005, 2008, 2009  
Biol 550: Introduction to Systematics, Spring 2005, 2007, 2008

### **OUTREACH**

Mentor for NSF funded Women in STEM banquets, Spring 2008  
Presentation on marine invertebrates at Raintree Montessori Elementary, October 2008, April 2005.

### **POSTDOCS MENTORED**

2007-present Marcos Barbeitos

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### GRADUATE STUDENTS WHOSE COMMITTEE I HAVE CHAIRED

2006-present Bastian Bentlage (PhD)  
2006-present Annalise Nawrocki (PhD)  
2007-2009 Nathaniel Evans (MA, with honors)

### GRADUATE STUDENTS WHOSE COMMITTEE I HAVE SERVED

2008-present Joanna Cielocha, (PhD)  
2008-present Adam Norris, (PhD), outside member for Molecular Biosciences  
2006-present Andrea Crowther (PhD)  
2009 Erica Blight (PhD), outside member for Duke University  
2007-2009 Kendra Koch (MA)  
2006-2008 Hannah Owens (MA)  
2005-2007 Harim Cha (PhD)  
2005-2006 Heidi Kuster (MA)

### UNDERGRADUATES MENTORED

2009-present Amanda Shaver, independent study  
2009-present Adam Johnson, undergraduate research  
2005-2008 Taras Zelenchuk, independent study, undergraduate research  
2005-2007 Kora Anderson, independent study, undergraduate research  
2005-2006 Emily Klatt, independent study, undergraduate research