

# James J Krupa CV

**Address:** Department of Biology, University of Kentucky, Lexington, KY 40506-0225.

**E-mail address:** bio149@uky.edu

**Phone:** Office (859) 257-8417; Home (859) 277-1113.

## Academic background:

Ph. D. University of Oklahoma, December 1987  
Major-Zoology

M. A. University of Nebraska at Omaha, August 1981  
Major-Biology

B. A. University of Nebraska at Omaha, May 1978  
Major-Biology

## Professional Appointments:

Professor	University of Kentucky	2012
Associate Professor	University of Kentucky	2002-2012
Assistant Professor	University of Kentucky	1996-2002
Assistant Research Professor	University of Kentucky	1991-1995
Postdoctoral Researcher	University of Kentucky	1989-1991

## Teaching

### Courses taught at the University of Kentucky:

Biology Graduate Seminar: Teaching Evolution (Bio 770)  
Basic Ideas in Biology (Bio 103)  
Biology Undergraduate Seminar: Evolutionary Medicine (Bio 425)  
Freshman Discovery Seminar: Evolutionary Medicine (AS 154)  
Freshman Discovery Seminar: Urban Ecology (AS 152)  
Flying Squirrel Ecology (Hon 301)  
Human Ecology (Bio 102)  
Introductory Ecology (Bio 325)  
Introduction to Evolution (Bio 303)  
Marine Biology Primer (AS 500)  
Marine Biology (AS 500)  
Mammalogy (Bio 554, AS 500, Bio 580)  
Forest Ecology (Hon 301)  
The Natural, Biological and Medical Sciences in Environmental Systems (ES 620)  
Ornithology (Bio 556)  
Vertebrate Biology (Bio 555)  
Evolutionary Ecology of the Galapagos Archipelago (Bio 580-710)

**Teaching history (evaluation summary, number of students, course sections taught):**

Number of students who have taken my classes since 1995: 24,978

Number of class sections taught since 1995: 100

Average teaching evaluation scores for all classes taught: 3.7

(1-4 old scale)

(Department average = 3.2; College average = 3.4)

Average teaching evaluation scores for all classes taught: 4.7

(1-5 new scale)

<b>Semester</b>	<b>Class</b>	<b>Enrollment</b>	<b>(1 low, 4 high)</b>
Fall 1995	Bio 103 (Basic Biology)	290	3.7
Fall 1995	Bio 103 (Basic Biology)	292	3.7
Fall 1995	Bio 325 (Ecology)	71	3.3
Spring 1996	Bio 103 (Basic Biology)	296	3.8
Spring 1996	Bio 103 (Basic Biology)	392	3.7
Spring 1996	Bio 103 (Basic Biology)	151	3.7
Fall 1996	Bio 102 (Human Ecology)	274	3.5
Fall 1996	Bio 102 (Human Ecology)	256	3.7
Fall 1996	Bio 103 (Basic Biology)	297	3.7
Spring 1997	Bio 102 (Human Ecology)	300	3.7
Spring 1997	Bio 103 (Basic Biology)	300	3.7
Spring 1997	Bio 103 (Basic Biology)	300	3.7
Fall 1997	Bio 102 (Human Ecology)	306	3.5
Fall 1997	Bio 102 (Human Ecology)	306	3.5
Fall 1997	Bio 325 (Ecology)	65	3.8
Spring 1998	Bio 102 (Human Ecology)	303	3.3
Spring 1998	Bio 103 (Basic Biology)	297	3.6
Spring 1998	Bio 103 (Basic Biology)	170	3.7
Fall 1998	Bio 102 (Human Ecology)	303	3.6
Fall 1998	Bio 102 (Human Ecology)	290	3.6
Fall 1998	Bio 103 (Basic Biology)	297	3.7
Spring 1999	Bio 102 (Human Ecology)	303	3.3
Spring 1999	Bio 103 (Basic Biology)	297	3.6
Spring 1999	Bio 103 (Basic Biology)	170	3.7
Fall 1999	Bio 102 (Human Ecology)	303	3.7
Fall 1999	Bio 102 (Human Ecology)	290	3.8
Fall 1999	Bio 555 (Vertebrate Biology)	19	4.0
Spring 2000	Bio 103 (Basic Biology)	301	3.8
Spring 2000	Bio 103 (Basic Biology)	297	3.7
Fall 2000	Bio 102 (Human Ecology)	297	3.6
Fall 2000	Bio 102 (Human Ecology)	301	3.8
Fall 2000	Bio 103 (Basic Biology)	151	3.8
Fall 2000	AS 154 (Evolutionary Medicine)	23	3.9

Spring 2001	Bio 103 (Basic Biology)	301	3.8
Spring 2001	Bio 103 (Basic Biology)	300	3.8
Fall 2001	Bio 102 (Human Ecology)	311	3.7
Fall 2001	Bio 102 (Human Ecology)	314	3.6
Fall 2001	Bio 555 (Vertebrate Biology)	20	4.0
Fall 2001	AS 154 (Evolutionary Medicine)	23	3.7
Spring 2002	Bio 103 (Basic Biology)	300	3.7
Spring 2002	Bio 103 (Basic Biology)	300	3.9
Spring 2002	Bio 425 (Evolutionary Medicine)	16	4.0
Fall 2002	Bio 102 (Human Ecology)	322	3.8
Fall 2002	Bio 102 (Human Ecology)	330	3.7
Fall 2002	Bio 103 (Basic Biology)	298	3.8
Fall 2002	AS 154 (Urban Ecology)	20	3.6
Spring 2003	Bio 103 (Basic Biology)	293	3.6
Spring 2003	Bio 103 (Basic Biology)	297	3.5
Spring 2003	Bio 103 (Basic Biology)	295	3.5
Spring 2003	AS 500 (Marine Biology Primer)	21	3.9
Spring 2003	Hon 301 (Flying Squirrel Ecology)	20	4.0
Summer 2003	AS 500 (Marine Biology)	19	3.8
Fall 2003	Bio 102 (Human Ecology)	322	3.4
Fall 2003	Bio 102 (Human Ecology)	330	3.6
Fall 2003	Bio 103 (Basic Biology)	298	3.6
Spring 2004	Bio 103 (Basic Biology)	300	3.6
Spring 2004	Bio 103 (Basic Biology)	470	3.5
Spring 2005	Bio 103 (Basic Biology)	403	3.7
Spring 2005	AS 500 (Mammalogy)	19	3.7
Spring 2005	Hon 301 (Forest Ecology)	18	4.0
Fall 2005	Bio 102 (Human Ecology)	301	3.5
Fall 2005	Bio 102 (Human Ecology)	289	3.5
Fall 2005	Bio 103 (Basic Biology)	283	3.5
Spring 2006	Bio 103 (Basic Biology)	296	3.6
Spring 2006	Bio 103 (Basic Biology)	452	3.4
Fall 2006	Bio 102 (Human Ecology)	301	3.5
Fall 2006	Bio 102 (Human Ecology)	292	3.6
Fall 2006	Bio 103 (Basic Biology)	299	3.7
Spring 2007	Bio 103 (Basic Biology)	472	3.4
Spring 2007	Bio 103 (Basic Biology)	300	3.5
Summer 2007	Bio 555 (Vertebrate Biology)	17	4.0
Fall 2007	Bio 102 (Human Ecology)	301	3.5
Fall 2007	Bio 102 (Human Ecology)	300	3.6
Fall 2007	Bio 103 (Basic Biology)	280	3.7
Spring 2008	Bio 103 (Basic Biology)	310	3.6
Spring 2008	Bio 103 (Basic Biology)	357	3.6
Spring 2008	Bio 770 (Teaching Evolution)	12	3.9

Fall 2008	Bio 102 (Human Ecology)	286	3.6
Fall 2008	Bio 102 (Human Ecology)	275	3.6
Fall 2008	Bio 103 (Basic Biology)	250	3.7
Spring 2009	Bio 103 (Basic Biology)	371	3.8
Spring 2009	Bio 103 (Basic Biology)	291	3.6
Fall 2009	Bio 102 (Human Ecology)	293	3.6
Fall 2009	Bio 102 (Human Ecology)	272	3.5
Fall 2009	Bio 103 (Basic Biology)	269	3.6
Spring 2010	Bio 103 (Basic Biology)	382	3.7
Spring 2010	Bio 103 (Basic Biology)	309	3.7
Fall 2010	Bio 303 (Evolution)	91	3.3
Spring 2011	Bio 303 (Evolution)	45	3.8
Fall 2011	Bio 303 (Evolution)	115	3.8
Spring 2012	Bio 303 (Evolution)	151	3.9
Fall 2012	Bio 303 (Evolution)	180	3.7
Spring 2013	Bio 303 (Evolution)	140	3.6
Spring 2014	Bio 303 (Evolution)	180	3.5
Fall 2014	Bio 303 (Evolution)	190	3.4
Spring 2015	Bio 555 (Vertebrate Biology)	22	3.8
Fall 2015	Bio 425 (Evolutionary Medicine)	16	4.0
Fall 2015	Bio 303 (Evolution)	240	3.6
Spring 2016	Bio 303 (Evolution)	105	3.2
Fall 2016	Bio 303 (Evolution)	300	4.4
Spring 2017	Bio 303 (Evolution)	160	4.7
Fall 2017	Bio 580 (Mammalogy)	12	5.0
Spring 2018	Bio 303 (Evolution)	142	4.6
Spring 2018	Hon 398 (Honors Research)	1	5.0
Fall 2018	Bio 303 (Evolution)	213	4.7
Spring 2019	Bio 303 (Evolution)	140	4.7
Summer 2019	Bio 580 (Ecology of Galapagos)	10	4.6
Fall 2019	Bio 303 (Evolution)	150	----

**Educational and Environment essays and publications:**

- 2017 J. J. Krupa. Geronimo's Pass: the clash between border politics and protecting threatened species. *Minding Nature Magazine*.
- 2016 J. J. Krupa. Defending Darwin in Kentucky. *Reports of the National Center for Science Education* (reprinted shortened version of 2015 *Orion Magazine* essay). 36(3):3-5.
- 2015 J.J. Krupa. Defending Darwin. *Slate.com* (rewritten and shortened reprint of *Orion* essay). 26 March.

- 2015 J.J. Krupa. Defending Darwin: teaching on the front lines. Orion Magazine. February-March: 20-26
- 2014 J.J. Krupa. Scientific Method, Evolution, and the Ivory-billed Woodpecker: a story to introduce evolution and science in the large. American Biology Teacher. 76:162-172
- 2013 J. J. Krupa. Teaching evolution to a future John Scopes. Reports of the National Center for Science Education. 33.4:2.1-2.2.
- 2005 J. J. Krupa. A classroom exercise for testing urban myth: Does wedding rice cause birds to explode or were Ann Lander, Martha Stewart and Bart Simpson wrong? American Biology Teacher. 67(4):223-230.
- 2002 J. J. Krupa. Multiple Stages of Weekend Field Trips to Expose Students to Nature: Emphasis on Discovery and Awareness in Stage 1. American Biology Teacher. 64:194-200
- 2000 J. J. Krupa. The importance of naturalists as teachers and the use of natural history as a teaching tool. American Biology Teacher. 26:553-558.
- 1991 J. J. Krupa. Night Choruses. Nebraskaland. April:8-13.

**Book related to public education:**

- 2013 E. Reece and J. J. Krupa. The Embattled Wilderness: the Natural and Human History of Robinson Forest and the Fight for its Future (forward by Wendell Berry). University of Georgia Press.

**Students involved in undergraduate research (79 Students):**

**Teaching Awards and recognition:**

- 2019 National Center for Science Education Friend of Darwin Award
- 2018 University of Kentucky's Department of Biology Most Influential Faculty Award
- 2016 University of Kentucky's College of Arts and Sciences Outstanding Teaching Award
- 2015 Nominated for CASE-Carnegie Best Teacher Award (did not win)
- 2014 Nominated for CASE-Carnegie Best Teacher Award (did not win)
- 2012 National Association of Biology Teachers Evolution Education Award
- 2011 National Association of Biology Teachers Four-year College and University Teaching Award
- 2007 University of Kentucky's College of Arts and Sciences Outstanding Teaching Award
- 2002 University of Kentucky's Provost's Award for Outstanding Teaching

- 2001 Kentucky Academy of Science Outstanding College and University Teacher Award
- 1999 University of Kentucky Alumni Association Great Teacher Award
- 1987 Zoology Department Award for Excellence in Graduate Student Teaching, University of Oklahoma

## Research

### Research publications and submissions since coming to UK:

- 2019 J. J. Krupa. Facultative perenniality in the dwarf sundew (*Drosera brevifolia*). *Castanea*. (In press).
- 2019 J.J. Krupa, J.M. Thomas. Is the Common Teasel (*Dipsacus fullonum*) Carnivorous or was Francis Darwin Wrong? *Botany*. 97: 321–328
- 2018 B.L. Slabach, J.J. Krupa. Range Expansion of *Sigmodon hispidus* (Hispid Cotton Rat) into Reclaimed Coal Surface-mines in Southeastern Kentucky. *Southeastern Naturalist*. 17(4): 84-89.
- 2017 J.J. Krupa. American bullfrog (*Lithobates catesbeiana*) diet. *Herpetological Review*. 48(2): 410-411.
- 2016 D. E. Jennings, J. J. Krupa, J.R. Rohr. Foraging modality and plasticity in foraging traits determine the strength of competitive interactions among carnivorous plants, spiders, and toads. *Journal Animal Ecology*. 85: 973–981
- 2016 L. Potts, J. J. Krupa. Does the dwarf sundew (*Drosera brevifolia*) attract prey? *American Midland Naturalist*. 175:233-241.
- 2015 M. J. Lacki, J. J. Krupa, S. P. Lacki. Extralimital movement of Seminole bats (*Lasiurus seminolus*) into Kentucky. *Transactions Kentucky Academy of Sciences*. 75(1&2):80-84
- 2014 P. H., Crowley, K. R Hopper, J. J. Krupa. An insect-feeding guild of carnivorous plants and spiders: does optimal foraging lead to competition or facilitation? *American Naturalist*. 182(6):801-819.
- 2013 D. P. Wetzel, J. J. Krupa. Where are the Bluebirds of the Bluegrass? Eastern Bluebird Decline in Central Kentucky. *American Midland Naturalist*. 169: 398-408.
- 2010 D. E. Jennings, J. J. Krupa, T. R. Raffel, J. R. Rohr. Evidence for competition between carnivorous plants and spiders. *Proceedings of the Royal Society*. October 7. 277:3001-3005.

- 2008 J.L. Larkin, D.S. Maehr, J. Krupa, K. Alexy, J.J. Cox, D. Unger, C. Barton. Small Mammal Response to Vegetation and Soil Conditions on a Reclaimed Surface Mine in Eastern Kentucky. *Southeastern Naturalist*. 7:401-412.
- 2006 M. R., Dzialak, T. L. Serfass, C. L. Brown, J. J. Krupa. Fall and winter diet of a reintroduced fisher (*Martes pennanti*) population in West Virginia and Maryland. *Proceedings of the West Virginia Academy of Science* 77: 7-12.
- 2006 Krupa, J. J., T. A. Estes, T. J. Crawford, A. M. Schlosser, K. A. Chermak, T. D. Justice, D. L. Riggs, B. M. Larder, J. A. Head, H. T. Schapker, J. T. Forester. Impact of Fire on Small Mammals in a Mixed-mesophytic Forest in Southeastern Kentucky. *Journal of the Kentucky Academy of Science*. 66(1):67-70.
- 2004 J. J. Krupa, J. Workman, C. M. Lloyd, L. R. Bertram, A. D. Horrall, D. K. Dick, K. S. Brewer, A. M. Valentine, C. Shaw, C. M. Clemons, J. E. Clemons Jr., C. A. Prater, N. J. Campbell, S. B. Arnold, N. J. Jones, A. M. Clark. 2001. Distribution of the Allegheny Woodrat (*Neotoma magister*) in an isolated, mixed-mesophytic forest in Southeastern Kentucky. *Journal of the Kentucky Academy of Science*. 65(1):33-34.
- 2002 J. J. Krupa, M. J. Lacki. Mammals of Robinson Forest: Species Composition of an isolated, mixed-mesophytic Forest on the Cumberland Plateau in southeastern Kentucky. Special Publications Museum of Texas Tech University. Number 45. 45 pages.
- 2000 J. J. Krupa, K.N. Geluso. Matching the color of excavated soils: Cryptic coloration in the Plains pocket gopher (*Geomys bursarius*). *Journal of Mammalogy*. 81:86-96
- 2000 G. Englund, J. J. Krupa. Habitat use by crayfish in stream pools: influence of predators, depth and body size. *Freshwater Biology*. 43:75-83.
- 1999 J. J. Krupa, A. Sih. Comparison of the behaviour and response to fish predators of two lotic species of water striders. *Ethology*. 105:1019-1033.
- 1998 J. J. Krupa, A. Sih. The effects of multiple predators on the mating dynamics of a stream-dwelling water strider. *Oecologia*. 117:258-265.
- 1997 K. E. Haskins, J.J. Krupa, A. Sih. Predation risk and social interference as factors influencing habitat selection in two species of stream-dwelling water striders. *Behavioral Ecology*. 8:351-364.
- 1998 J. J. Krupa, A. Sih. The effects of multiple predators on the mating dynamics of a stream-dwelling water strider. *Oecologia*. 117:258-265.
- 1997 K. E. Haskins, J.J. Krupa, A. Sih. Predation risk and social interference as factors influencing habitat selection in two species of stream-dwelling water striders. *Behavioral Ecology*. 8:351-364.

- 1996 M. J. Lauer, A. Sih, J. J. Krupa. Male density, female density, and intersexual conflict in a stream-dwelling insect. *Animal Behaviour*. 52:929-939.
- 1996 L. Rowe, J.J. Krupa, A. Sih. An experimental test of condition dependent mating behavior and habitat choice by water striders in the wild. *Behavioral Ecology*. 7:474-479.
- 1996 M. Lauer, J. J. Krupa, K. E. Haskins, D. Miller. New county records for the West Virginia white (Lepidoptera: Pieridae: *Pieris virginiensis*) in Kentucky. *Transactions of the Kentucky Academy of Science*. 57:128-129.
- 1996 A. Sih, J. J. Krupa. Direct and indirect effects of multiple enemies on water strider mating dynamics. *Oecologia*. 105:179-188.
- 1996 J. J. Krupa, K. E. Haskins. Invasion of the meadow vole (*Microtus pennsylvanicus*) into southeastern Kentucky and the impact on the southern bog lemming (*Synaptomys cooperi*). *American Midland Naturalist*. 135:14-22.
- 1996 G. Arnqvist, L. Rowe, J. J. Krupa, A. Sih. Assortative mating in water striders. I. meta-analysis of patterns. *Evolutionary Ecology*. 10:265-284.
- 1995 J.J. Krupa. How likely is male mate choice in anurans? *Behaviour*. 132: 643-664.
- 1995 J.J. Krupa. Woodhouse toad (*Bufo woodhousei*) fecundity. *Herpetological Review*. 26:142-144.
- 1995 A. Sih, J.J. Krupa. Interacting effects of predation risk, sex ratio and density on male/female conflicts and mating dynamics of stream water striders. *Behavioral Ecology*. 6:316-325.
- 1994 L. Rowe, G. Arnqvist, A. Sih, J.J. Krupa. Sexual conflict and the evolutionary ecology of water strider mating systems. *Trends in Ecology and Evolution*. 9:289-293.
- 1994 J.J. Krupa. Breeding biology of the Great Plains toad in Oklahoma. *Journal of Herpetology*. 28:217-224.
- 1993 J.J. Krupa, A.Sih. Experimental studies on water strider mating dynamics: spatial variation in density and sex ratio. *Behavioral Ecology and Sociobiology*. 33:107-120.
- 1992 A. Sih, J.J. Krupa. Factors influencing the nonrandom mating patterns in a semi-aquatic insect. *Behavioral Ecology and Sociobiology*. 31:51-56.
- 1991 J. J. Krupa, W. Leopold, A. Sih. Behavioural shifts by female water striders in response to single males. *Behaviour*. 115 (3-4):247-253.
- 1990 A. Sih, J. J. Krupa, S. Travers. An experimental study on the effects of predation risk and food deprivation on the mating behavior of the water strider. *American Naturalist*. 135:284-290.



- 1990 J. J. Krupa. Influence of body size and temperature on the advertisement call of the Great Plains toad. *Copeia*. 1990(3):880-882.
- 1990 J. J. Krupa. The Great Plains toad, *Bufo cognatus*. *Catalog of American Amphibians and Reptiles*. 457:1-8.
- 1989 J. J. Krupa. Alternative mating tactics in the Great Plains toad. *Animal Behaviour*. 37:1035-1043.
- 1988 J. J. Krupa. Fertilization efficiency in the Great Plains toad, *Bufo cognatus*. *Copeia*. 1988(3):800-803.
- 1986 J. J. Krupa. Distribution of the bird-voiced treefrog (*Hyla avivoca*) in Oklahoma. *Proceeding of the Oklahoma Academy of Science*. 66:37-38.
- 1986 J. J. Krupa. Anuran breeding dates in central Oklahoma. *Bulletin of the Oklahoma Herpetology Society*. 11(1-4):10-13.
- 1986 J. J. Krupa. Perch preference by the fence lizard (*Sceloporus undulatus*) under experimental conditions. *Bulletin of the Oklahoma Herpetology Society*. 11(1-4):6-9.
- 1986 J. J. Krupa. Multiple clutch production in the Great Plains toad. *Prairie Naturalist*. 18(3):151-152.
- 1985 J. J. Krupa, S. M. Secor, G. Sievert. Observations on the bird-voiced treefrog in Oklahoma: the first resighting after 23 years. *Bulletin of the Oklahoma Herpetology Society*. 10(1-2):8-10.
- 1985 J. J. Krupa. *Dasypeltis scabra* (African egg-eating snake). Feeding. *Herpetological Review*. 16(3):79.
- 1985 J. J. Krupa. *Sceloporus undulatus erythrocheilus* (Red-lipped lizard). Injuries. *Herpetological Review*. 16(2):54.
- 1979 R. E. Ballinger, J. W. Neitfeldt, J. J. Krupa. An experimental analysis of the role of the tail in attaining high speeds in *Cnemidophorus sexlineatus* (Reptilia; Squamata: Lacertilia). *Herpetologica* 35:114-115.

**Books:**

- 1989 C. C. Carpenter, J. J. Krupa. *Oklahoma Herpetology: An Annotated Bibliography*. University of Oklahoma Press 274p.