CURRICULUM VITAE DATE: August 23, 2009

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EMPLOYMENT:

2009 – Associate Professor, Department of Biology, University of Nevada Reno.
2005 – 2009: Assistant Professor, Department of Biology, University of Nevada Reno.
2002-2005: Assistant Research Professor, Department of Psychology, University of California, Davis.
2002 (Summer Session): Lecturer (Animal Behavior), Section of Neurobiology, Physiology, and Behavior, University of California, Davis.
2002 (Spring Quarter): Lecturer (Animal Behavior), Section of Neurobiology, Physiology, and Behavior, University of California, Davis.
1999-2002: NIH Postdoctoral Fellow, Section of Neurobiology, Physiology, and Behavior, University of California, Davis, CA. Supervisor: Dr. N. S. Clayton.
1997-1999: NSF Postdoctoral Fellow, Department of Biology, Purdue University, West Lafayette, IN. Supervisor: Dr. J. R. Lucas.
1996-1997: Presidential Fellow, Department of Zoology, The Ohio State University, Columbus, OH, Supervisor: Dr. T. C. Grubb, Jr.
1994-1996: Graduate Fellow, Department of Zoology, The Ohio State University, Columbus, OH. Supervisor: Dr. T. C. Grubb, Jr.
1991-1994: Teaching Associate, Department of Zoology, The Ohio State University, Columbus, OH. Supervisor: Dr. T. C. Grubb, Jr.
1983-1991: Researcher, Institute of Biological Problems of the North, Academy of Sciences of Russia, Magadan, Russia

EDUCATION:

Ph. D., Zoology, The Ohio State University, Columbus, OH, 1991-1997
Thesis: Energy management in wintering birds.
M.S. Zoology, State University of Leningrad, Leningrad, Russia, 1978-1983
Thesis: Foraging and food-caching ecology of willow (*Parus montanus*) and Siberian (*P. cinctus*) tits.

AWARDS AND GRANTS:

Total amount of Federal Grant Awards (NSF and NIH) received to date: $2,261,474

2009: NSF (Award # 0918268; Animal Behavior); PIs: Lara LaDage and **Vladimir Pravosudov** (University of Nevada Reno), Barry Sinervo (UC Santa Cruz): "Causes and consequences of variation in the hippocampus of individuals utilizing different spatial strategies". Period of support: 08/01/2009-07/30/2013; Total costs: $400,000 (All awarded to University of Nevada Reno).

2009: PI, NSF REU; Total costs: $6,000

2007: PI, NIH (NIMH) R21 MH079892: "Hippocampal neurogenesis and memory". Period of support: 03/01/2007-02/28/2009.
Total costs: $350,417.

2007: PI, NIH (NIMH) R01 MH076797: "Effect of social environment on memory, hippocampal structure and neurogenesis". Period of support: 02/01/2007-12/31/2009.
Total costs: $567,000.

2006: PI, NSF (IOB-0615021): "The relationship between reliance on food caching, spatial memory and the hippocampus – an intraspecific comparison". Period of support: 09/01/2006- 08/31/2010.
Total costs: $393,338.

2002: PI, NIH (NIMH) Career Award (K01); "The effect of stress on memory and the brain"; Period of support 09/01/2002 – 08/31/2005.
Total costs: $344,635.
The main goal of the study is to investigate how nutritional and social stress are mediated by stress hormones, and their effects on memory and hippocampal plasticity using mountain chickadees and western scrub-jays.

1999: PI, NIH (NIDA) National Research Service Award (NRSA) for Individual Postdoctoral Fellows; "Spatial memory and the brain under demanding conditions"; Period of support 09/01/1999 – 08/31/2002.
Total costs: $120,084.
Specific aims of the study were (1) to analyze the effect of unpredictable food on memory and brain morphology in food-caching chickadees by manipulating food supply and (2) to examine the effect of high energetic demands resulting from long winters on memory and brain morphology by comparing birds from high (Alaska) and low (Colorado) latitudes.

1999: System Neuroscience Research Training Postdoctoral Fellowship, Center for Neuroscience, University of California Davis (Declined)

1997: PI, NSF Postdoctoral Research Fellowship in Biosciences Related to the Environment; Period of support 09/01/1997 – 08/31/1999.
Total costs: $80,000.
The Fellowship supported my study of the effects of social dominance on body fat and food caches in Carolina chickadees using experiments and dynamic modeling.
1997: The Darwin Award for the outstanding oral presentation by a zoology graduate student at a regional, national or international meeting, Department of Zoology, The Ohio State University
1996: Presidential Fellowship, The Ohio State University (12 months, $13,200)
1994: Graduate Student Alumni Research Award, The Ohio State University ($1,300)
1994: Pre-doctoral Fellowship from Smithsonian Institution, Migratory Bird Center (24 months)
1993: Roger Tory Peterson Institute Travel Award given by the Wilson Ornithological Society
1993: National Bird-Feeding Society Research Grant ($700)
1992: National Bird-Feeding Society Research Grant ($600)
1991: Guest Scholarship/Council of Europe Scholarship to study at the Department of Zoology, University of Stockholm, Sweden (Declined)
1990: Scholarship from the Department of Zoology, University of Oulu, Finland (2 months)
1989: Scholarship from the Department of Zoology, University of Oulu, Finland (1 month)

Honors:

2008: ***Invited contributor*** to a new Encyclopedia of Animal Behavior (Academic Press, Elsevier; Janice Moore and Michael Breed, the Editors-in-Chief; John Wingfield, Section Editor): “Hormones, behavior and memory and learning”.
2007: ***Invited symposium speaker*** at the annual Animal Behavior Society Meeting. Symposium: “Evolutionary ecology of learning, memory and information use” organized by R. Dukas and J. Ratcliffe. Topic: Development of spatial memory and the hippocampus under nutritional stress: adaptive priorities or developmental constraints in brain development? Burlington, VT
2004: ***Invited plenary speaker*** at the 10th Jubilee Congress of the International Society for Behavioral Ecology, Jyvaskyla, Finland. Topic: Spatial memory in food caching birds – from natural history to mechanisms.
2004: ***Invited symposium speaker*** at VIII International Symposium on Avian Endocrinology, Scottsdale, AZ. Topic – Long-term moderately elevated corticosterone and spatial memory.

MAJOR RESEARCH INTERESTS:

Neuroecology
Behavioral Endocrinology
Cognitive Ecology
Animal Behavior
Behavioral Ecology
Evolutionary Biology
Conservation Biology

PUBLICATIONS (peer reviewed articles and peer-reviewed contributed book chapters) (63):

(Articles marked with * have been produced in collaboration with students and/or postdocs in my lab).

Pravosudov, V. V., Smulders, T. V. 2010. Integrating ecology, psychology, and neurobiology within a food-hoarding paradigm, Philosophical Transactions of the Royal Society B, In Press.

Roth, T. C. II, Rattenborg, N. and **Pravosudov, V. V.*** 2010. The ecological relevance of sleep: the trade-off between sleep, memory, and energy conservation. Philosophical Transactions of the Royal Society B, In Press.

Roth, T. C. II, Brodin, A., LaDage, L., Smulders, T. V., **Pravosudov, V. V.*** 2010. Is bigger always better? A critical appraisal of the issue of volumetric analysis in the study of the hippocamapus. Philosophical Transactions of the Royal Society B, In Press.

LaDage, L. D., Roth II, T. C., **Pravosudov, V. V.*** 2009. Biases in brain measurements: the trouble with the telencephalon. Brain, Behavior and Evolution, 73: 253-258.

LaDage, L. D., Riggs, B. J. Sinervo, B. & **Pravosudov, V. V.*** 2009. Dorsal cortex volume in male in male side-blotched lizards (*Uta stansburiana*) is associated with different space use strategies. Animal Behavior, 78: 91-96.

Fox, R. A., LaDage, L. D., Roth II, T. C., **Pravosudov, V. V.*** 2009. Behavioral profile predicts dominance status in mountain chickadees. Animal Behavior, 77: 1441-1448.

LaDage, L. D., Roth II, T. C., Fox, R. A., **Pravosudov, V. V.*** 2009. Effects of captivity and memory-based experiences on the hippocampus in mountain chickadees. Behavioral Neuroscience, 123: 284-291. (Recommended by the Faculty of 1000 Biology)

LaDage, L. D., Roth II, T. C., Fox, R. A., **Pravosudov, V. V.*** 2009. Flexible cue use in food-caching birds. Animal Cognition. 12: 419-426.

Roth II, T. C. **Pravosudov, V. V.*** 2009. Hippocampal volume and neuron numbers increase along a gradient of environmental harshness – a large-scale comparison. Proceedings of the Royal Society B 276: 401-405.

Pravosudov, V. V. 2009. Development of spatial memory and the hippocampus under nutritional stress: adaptive priorities or developmental constraints in brain development? In: *Cognitive Ecology II. The Evolutionary ecology of learning, memory and information use*. Reuven Dukas & John Ratcliffe, Editors, University of Chicago Press; In Press.

Pravosudov, V. V. 2008. Mountain chickadees discriminate between potential cache pilferers and non-pilferers. Proceedings of the Royal Society: Biological Sciences, 275: 55-61.

Pravosudov, V. V., Sanford, K. & Hahn, T. P. 2007. On the evolution of brain size in relation to migratory behavior in birds. Animal Behavior, 73: 535-539.

Sherry, D. F., **Pravosudov, V. V.**, MacDougall-Shackleton, S. A, Hoshooley, J. S., & Phillmore, L. S. 2007. Proximate mechanisms in behavior and evolution. In: K. A. Otter, ed., *The Ecology and Behavior of Chickadees and Titmice. An Integrated Approach*, ed. K. A. Otter, Oxford University Press, pp. 71-73.

Pravosudov, V. V. 2007. The relationship between environment, food caching, spatial memory, and the hippocampus in chickadees. In: K. A. Otter, ed., *The Ecology and Behavior of Chickadees and Titmice. An Integrated Approach*, ed. K. A. Otter, Oxford University Press, pp. 25-41.

Pravosudov, V. V. 2007. Stress hormones and predation-starvation trade-off. In *Foraging*, eds. D. W. Stephens, R. C. Ydenberg, and J. C. Brown, University of Chicago Press, pp. 439-442.

Pravosudov, V. V., Kitaysky, A. S., & Omanska, A. 2006. The relationship between migratory behavior, memory and the hippocampus – an intraspecific comparison. Proceedings of the Royal Society: Biological Sciences 273: 2641-2649.

Pravosudov, V. V. 2006. On seasonality of food caching behavior in parids: do we know the whole story? Animal Behavior 71: 1455-1460.

Pravosudov, V. V. & Kitaysky, A. S. 2006. Effects of nutritional restrictions during post-hatching development on adrenocortical function in western scrub-jays (*Aphelocoma californica*). General and Comparative Endocrinology, 145: 25-31.

Pravosudov, V. V. & Selvino de Kort. 2006. Is the western scrub-jay (*Aphelocoma californica*) really an underdog among food-caching corvids when it comes to hippocampal volume and food caching propensity? Brain, Behavior and Evolution 67: 1-9.

Pravosudov, V. V., Lavenex, P., & Omanska, A. 2005. Nutritional deficits during early development affect hippocampal structure and spatial memory later in life. Behavioral Neuroscience, 119: 1368-1374. (A cover story in *American Psychological Association Monitor*, v. 36, No. 11 2005, “Feed the birds. Song bird study offers new insights into how malnutrition impairs development and cognition” by Rachel Adelson)

Pravosudov, V. V. 2005. Corticosterone and memory in birds. In *Functional Avian Endocrinology* (Dawson, A., Sharp, P. Eds.), pp. 257-268, Narosa Publishing House, New Delhi, India.

Pravosudov, V. V. & Omanska, A. 2005. Prolonged moderate elevation of corticosterone does not affect hippocampal anatomy or cell proliferation rates in mountain chickadees (*Poecile gambeli*). Journal of Neurobiology, 62: 82-91.

Pravosudov, V. V. & Omanska, A. 2005. Dominance-related changes in spatial memory are associated with changes in hippocampal cell proliferation rates in mountain chickadees. Journal of Neurobiology, 62: 31-41.

Pravosudov, V. V., Kitaysky, A. S., Wingfield, J. C., & Clayton, N. S. 2004. No latitudinal differences in adrenocortical stress response in wintering black-capped chickadees (*Poecile atricapilla*). Comparative Biochemstry and Physiology, Part A: Molecular and Integrative Physiology, 137: 95-103.

Pravosudov, V. V. 2003. Long-term moderate elevation in corticosterone facilitates avian food caching behavior and enhances spatial memory. Proceedings of the Royal Society: Biological Sciences 270: 2599-2604. (Featured in: *New Scientist*, "Stress for survival", 2003, v. 179, issue 2407, p. 24; *Science News*, "Where'd I put that? May be it takes a bird brain to find car keys" by Susan Milius, 2004, v. 165, No. 7; UCDavis Dateline, "Rain, snow fails to deter clever, all-weather chickadees" by Erin Digitale, 2004, v.18, No. 6).

Pravosudov, V. V., Mendoza, S. P., & Clayton, N. S. 2003. The relationship between dominance, corticosterone, memory and food caching in mountain chickadees (*Poecile gambeli*). Hormones and Behavior 44: 93-102.

Pravosudov, V. V. and Clayton, N. S. 2002. A test of the adaptive specialization hypothesis: population differences in caching, memory and the hippocampus in black-capped chickadees (*Poecile atricapilla*). Behavioral Neuroscience, 116: 515-522. (A cover story in *American Psychological Association Monitor*, v. 33, No. 7, July/August 2002, "Food for thought" by Rachel Adelson; featured in *Trends In Cognitive Sciences*, v. 6, No. 9 2002, "Harsh conditions make birds brainy" p. 371; *Science News*, "Where'd I put that? May be it takes a bird brain to find car keys" by Susan Milius, 2004, v. 165, No. 7).

Pravosudov, V. V., Kitaysky, A. S., Saldanha, C., Wingfield, J. C., and Clayton, N. C. 2002. The effect of photoperiod on adrenocortical stress response in mountain chickadees (*Poecile gambeli*). General and Comparative Endocrinology,126: 242-248.

Pravosudov, V. V. Lavenex, P., and Clayton, N. S. 2002. Changes in spatial memory mediated by experimental variation in food supply do not affect hippocampal anatomy in mountain chickadees (*Poecile gambeli*). Journal of Neurobiology, 51: 142-148.

Pravosudov, V. V., Kitaysky, A. S., Wingfield, J. C., and Clayton, N. S. 2001. Long-term unpredictable foraging conditions and physiological stress response in mountain chickadees (*Poecile gambeli*). General and Comparative Endocrinology, 123: 324-331.

Pravosudov, V. V. and Lucas, J. R. 2001. Daily patterns of energy storage in food-caching birds under variable daily predation risk: a dynamic state variable model. Behavioral Ecology and Sociobiology, 50: 239-250.

Lucas, J. R., **Pravosudov, V. V.**, and Zielinski, D. L. 2001. A re-evaluation of the logic of pilferage effects on energy regulation. Behavioral Ecology, 12: 246-260.

Pravosudov, V. V. and Lucas, J. R. 2001. A dynamic model of short-term energy management in small food-caching and non-caching birds. Behavioral Ecology, 12: 207-218.

Pravosudov, V. V. and Clayton, N. S. 2001. Effects of demanding foraging conditions on cache retrieval accuracy in food caching mountain chickadees (*Poecile gambeli*). Proceedings of the Royal Society: Biological Sciences, 268: 363-368.

Pravosudov, V. V. and Lucas, J. R. 2000. The costs of being cool: a dynamic model of nocturnal hypothermia by small food-caching birds in winter. Journal of Avian Biology, 31: 463-472.

Pravosudov, V. V. and Lucas, J. R. 2000. The effect of social dominance on fattening and food caching behavior in Carolina chickadees. Animal Behavior, 60: 483-493.

Pravosudov, V. V., Grubb, T. C., Jr., Doherty, P.F., Jr., Bronson, C. L., Pravosudova, E. V., and Dolby, A. S. 1999. Social dominance and energy reserves in wintering woodland birds. The Condor, An International Journal of Avian Biology, 101: 880-884 (Featured in The New York Times: Birds' social x-rays, April 18, 2000).

Greenberg, R., **Pravosudov, V. V.**, Sterling, J., Kozlenko, A., and Kontorshchikov, V. 1999. Divergence in foraging behavior of foliage-gleaning birds of Canadian and Russian boreal forests. Oecologia, 120: 451-462.

Greenberg, R., **Pravosudov, V. V.**, Sterling, J., Kozlenko, A., and Kontorshchikov, V. 1999. Tits, warblers, and finches: the structure of boreal forest foliage-gleaning bird guilds. The Condor, An International Journal of Avian Biology, 101:299-310.

Pravosudov, V. V. and Grubb, T. C., Jr. 1999. Effects of iter- and intra-specific dominance on vigilance in avian social groups. The Auk, A Quarterly Journal of Ornithology, 116:241-246.

Pravosudov, V. V. and Grubb, T. C., Jr. 1998. Management of fat reserves in tufted titmice (Baeolophus *bicolor*) in relation to predation risk. Animal Behavior,56:49-54.

Pravosudov, V. V. and Grubb, T. C., Jr. 1998. Management of fat reserves in tufted titmice (*Parus bicolor*): evidence against a trade-off with food hoards. Behavioral Ecology and Sociobiology 42:57-62.

Lahti, K., Koivula, K., Rytkonen, S., Mustonen, T., Welling, P., **Pravosudov, V. V.**, and Orell, M. 1998. Social influences on food caching in willow tits: a field experiment. Behavioral Ecology, 9: 122-129.

Pravosudov, V. V. and Grubb, T. C., Jr. 1998. Body mass, ambient temperature, time of day, and vigilance in tufted titmice. The Auk, A Quarterly Journal of Ornithology 115:221-223.

Pravosudov, V. V. and Grubb, T. C. Jr. 1997. Energy management in passerine birds during the non-breeding season: a review. Current Ornithology, 14:189-234.

Pravosudov, V. V. and Grubb, T. C., Jr. 1997. Management of fat reserves and food caches in tufted titmice (*Parus bicolor*) in relation to unpredictable food. Behavioral Ecology 8:332-339.

Pravosudov, V. V. and Pravosudova, E. V. 1996. The Breeding biology of the Willow Tit (*Parus montanus*) in northeastern Siberia. Wilson Bulletin 108:80-93.

Pravosudov, V. V., Pravosudova, E. V., and Zimireva, E. Yu. 1996. The diet of nestling Eurasian Nuthatches. Journal of Field Ornithology 67:114-118.

Pravosudov, V. V. and Grubb, T. C., Jr. 1995. Vigilance in the Tufted Titmouse varies independently with ambient temperature and conspecific group size. The Condor, A Journal of Avian Biology 97:1064-1067.

Pravosudov, V. V. 1995. Clutch size and fledging rate in the Eurasian Nuthatch breeding in natural cavities are unrelated to nest cavity size. Journal of Field Ornithology 66:231-235.

Grubb, T. C., Jr. and **Pravosudov, V. V.** 1994. Toward a general theory of energy management in wintering birds. Journal of Avian Biology 26:255-260.

Grubb, T. C., Jr. and **Pravosudov, V. V.** 1994. Ptilochronology: follicle history fails to influence growth of an induced feather. The Condor, A Journal of Avian Biology 96:214-217.

Grubb, T. C. Jr. and **Pravosudov, V. V.** 1994. The Tufted Titmouse *Parus bicolor*. In The Birds of North America, (A. Poole, P. Stettenheim, and F. Gill, Editors). Philadelphia: The Academy of Natural Sciences; Washington, DC; The American Ornithologists' Union.

Pravosudov, V. V. and Grubb, T. C., Jr. 1993. The White-breasted Nuthatch *Sitta carolinensis*. In: The Birds of North America, (A. Poole, P. Stettenheim, and F. Gill, Editors). Philadelphia: The Academy of Natural Sciences; Washington, DC: The American Ornithologists' Union.

Pravosudov, V. V. 1993. Breeding biology of the Eurasian Nuthatch in northeastern Siberia. Wilson Bulletin 105:475-482.

Pravosudov, V. V. 1993. Social organization of the Nuthatch *Sitta europaea asiatica*. Ornis Scandinavica 24:290-296.

Pravosudov, V. V. 1991. Growth and development of Nuthatch (*Sitta europaea*) nestlings. In: Proceedings of the Zoological Institute, Academy of Sciences of Russia, 231:159-173 (in Russian).

Pravosudov, V. V. 1987. Utilization of territory by some *Parus* species during breeding. Vestnik Zoologii, 4:67-69 (in Russian).

Pravosudov, V. V. 1987. Ecology of two closely related species of tits (*Parus cinctus* and *P. montanus*) in the northwestern part of the USSR. Ornitologia (Moscow), 22:68-75 (in Russian).

Pravosudov, V. V. 1986. Individual differences in foraging and storing behavior in Siberian tit *Parus cinctus* Bodd. and Willow tit *Parus montanus* Bald. Soviet Journal of Ecology, 4: 60-64 (in Russian).

Pravosudov, V. V. 1985. Search for and storage of food by *Parus cinctus lapponicus* and *P. montanus borealis* (Paridae). Zool. Zhurnal (Journal of Zoology) 64: 1036-1043 (in Russian).

Pravosudov, V. V. 1984. The storage of food by the Siberian jay *Perisoreus infaustus* (Passeriformes, Corvidae) in spring. Zool. Zhurnal (Journal of Zoology) 63: 950-953 (in Russian).

Pravosudov, V. V. 1983. Tits' feeding rate during winter in northern taiga. Vestnik Leningradskogo Universiteta, 21:16-22 (in Russian).

Solicited papers (2):

Pravosudov, V. V. 2009. Hormones, behavior, and memory and learning. Encyclopedia of Animal Behavior, Elseviere publishing. In Press.

Roth II, T. C. and **Pravosudov, V. V.*** 2009. Tough times call for bigger brains. Communicative and Integrative Biology, 2(3): 1-3.

BOOK REVIEWS (1):

Pravosudov, V. V. 1999. The Nuthatches (book review). The Auk, A Quarterly Journal of Ornithology, 116: 1165-1166.

EDITOR (1)

Pravosudov, V. V. & Smulders, T. V., Editors for a theme issue: *Integrating Ecology, Psychology and Neurobiology within a Food-Hoarding Paradigm*. Philosophical Transactions of the Royal Society B, Proposal accepted in October 2008, publication scheduled in 2010.

SUBMITTED FOR PUBLICATION (1):

LaDage, L. D., Roth II, T. C., Fox, R. A.,**Pravosudov, V. V.*** Use of spatial memory induces hippocampal neurogenesis in a food-caching bird.

PAPERS IN PREPARATION ():

PUBLISHED CONFERENCE ABSTRACTS (3):

Sanford, K. H., Breuner, C. W., Hahn, T. P., **Pravosudov, V. V.** 2006. Age affects relative but not absolute hippocampal volume in migratory mountain white-crowned sparrows. Integrative and Comparative Biology, 46: E245 (Abstract, Society for Integrative and Comparative Biology).

Sanford, K. H., Breuner, C. W., Hahn, T. P., **Pravosudov, V. V.** 2005. Relative hippocampal volume is affected by age in migratory mountain white-crowned sparrows. Integrative and Comparative Biology, 45: 1188 (Abstract, Society for Integrative and Comparative Biology).

Pravosudov, V. V., Cimprich, D. A., and Grubb, T. C., Jr. 1994. Behavior, nutritional condition and survivorship in mixed-species foraging groups: an experimental approach. J. Ornithol. 135:310 (abstract, International Ornithological Congress).

PROFFESIONAL PRESENTATIONS (34):

Presentations marked with * are by students and/or postdocs in my lab.

2008. Fox, R. A., Roth II, T. C., LaDage, L. D., **Pravosudov, V. V.*** Effects of social environment on spatial memory in mountain chickadees. Spoken Presentation. Integrative Biology of Scatter Hoarding: Ecology, Psychology and Neuroscience, Cornell University.

2008. **Pravosudov, V. V.**, Roth II, T. C., LaDage, L. D., Fox, R. A. The relationship between the environment, spatial cognition and the hippocampus in food-caching birds. Spoken Presentation. Integrative Biology of Scatter Hoarding: Ecology, Psychology and Neuroscience, Cornell University.

2008. Roth II, T. C., LaDage, L. D., Fox, R. A., **Pravosudov, V. V*.** Hippocampal volume in food-hoarding parids: are North American brains really smaller than Eurasian? Spoken Presentation. Integrative Biology of Scatter Hoarding: Ecology, Psychology and Neuroscience, Cornell University.

2008. **Pravosudov, V. V.** Mountain chickadees discriminate between potential cache pilferers and non-pilferers. Spoken presentation. 12th International Behavioral Ecology Congress, Cornell University, Ithaca, NY.

2008. Fox, R. A., LaDage, L. D., Roth II, T. C., **Pravosudov, V. V.*** Individual behavioral traits predict dominance status in mountain chickadees. Spoken presentation.12th International Behavioral Ecology Congress, Cornell University, Ithaca, NY.

2008. LaDage, L. D., Roth II, T. C., Fox, R. A., **Pravosudov, V. V.*** Food-caching mountain chickadees preferentially respond to color over spatial cues in an associative learning test. Spoken presentation.12th International Behavioral Ecology Congress, Cornell University, Ithaca, NY.

2008. Roth II, T. C., **Pravosudov, V. V.*** The relationship between environmental conditions and hippocampal structure in the black-capped chickadee. 12th International Behavioral Ecology Congress, Cornell University, Ithaca, NY (to be presented in August 2008). Spoken presentation.12th International Behavioral Ecology Congress, Cornell University, Ithaca, NY.

2007. Sanford, K. H., Breuner, C. W., Hahn, T. P., **Pravosudov, V. V.*** 2006. Age affects relative but not absolute hippocampal volume in migratory mountain white-crowned sparrows. Poster. Society for Integrative and Comparative Biology Meeting, Phoenix, AZ, Jan. 3-7, 2007.

2006. **Pravosudov, V. V.** The relationship between migratory behavior, memory and the hippocampus – an intraspecific comparison. Spoken presentation; Animal Behavior Society meeting, Snowbird, UT, 12-16 August.

2006. **Pravosudov, V. V.** Continental differences in avian hippocampal and brain size: myth or reality? Invited spoken presentation. Winter Animal Behavior Conference, Steamboat Springs, Colorado, January 14-21, 2006

2006. Sanford, K. H., Breuner, C. W., Hahn, T. P., & **Pravosudov, V. V.*** Relative hippocampal volume is affected by age in migratory mountain white-crowned sparrows. Poster. Society for Integrative and Comparative Biology Meeting, Orlando, FL, January 4-8, 2006.

2005. **Pravosudov, V. V.** The relationship between environment, food caching, spatial memory, and the hippocampus in chickadees. Invited spoken presentation, Parid Evolution & Behavior Workshop, 11th-12th August 2005, Snowbird, UT.

2005. **Pravosudov, V. V.** Nutritional deficits during early development affect hippocampal structure and spatial memory later in life. Spoken presentation, Animal Behavior Society Meeting, Snowbird, UT.

2003. **Pravosudov, V. V.** Long-term moderate elevation in corticosterone facilitates avian food caching behavior and enhances spatial memory. Spoken presentation. Animal Behavior Society Meeting, Boise, ID.

2002. **Pravosudov, V. V.** and Clayton, N. S. The effect of social dominance on caching behavior and cache retrieval accuracy in mountain chickadees (*Poecile gambeli*). Spoken presentation. Animal Behavior Society Meeting, Bloomington, IN.

2002. **Pravosudov, V. V.** and Clayton, N. S. A test of the adaptive specialization hypothesis: populational differences in caching, memory and the hippocampus in black-capped chickadees (*Poecile atricapilla*). Spoken presentation. 9th Biennial Congress of the International Society for Behavioral Ecology, Montreal, Canada.

2001. Greenberg, R., **Pravosudov, V**., Sterling, J., Kozlenko, A., and Kontorshchikov, V. The effect of the agricultural revolution on forest bird communities: the case of the chaffinch. Poster. 2001 American Ornithologists' Union Meetings, University of Washington, Seattle.

2001. **Pravosudov, V. V.**, Kitaysky, A. S., Wingfield, J. C., and Clayton, N. S. The effect of photoperiod and long-term unpredictable food supply on baseline levels of corticosterone and on the adrenocortical stress response in mountain chickadees. Poster. 2001 American Ornithologists' Union Meetings, University of Washington, Seattle.

2001. **Pravosudov, V. V.** and Clayton, N. S. Differences in cache retrieval efficiency between northern and southern populations of black-capped chickadees (*Poecile atricapillus*). Spoken presentation. Animal Behavior Society Meeting, Oregon State University.

2000. **Pravosudov, V. V.** and Clayton, N. S. Memory for food caches and unpredictable food in mountain chickadees. Spoken presentation. Animal Behavior Society Meeting, Morehouse College, Atlanta, Georgia.

1999. Lucas, J. R., **Pravosudov, V. V.**, and Zielinski, D. L. A re-evaluation of the logic of pilferage effects on energy regulation. Spoken presentation. Animal Behavior Society Meeting, Bucknell Univerisity.
1999. **Pravosudov, V. V.** and Lucas, J. R. Ecological trade-offs of nocturnal hypothermia in wintering small food-caching birds: a dynamic model. Spoken presentation. Animal Behavior Society Meeting, Bucknell University.
1998. **Pravosudov, V. V.** and Lucas, J. R. The effect of within and between day variance in food supply on fattening and food caching in birds: a dynamic model. Spoken presentation. Foraging98, University of California Santa Cruz.
1998. **Pravosudov, V. V.** and Lucas, J. R. The effect of social dominance on fattening and food caching behavior in Carolina chickadees. Spoken presentation. 7th International Behavioral Ecology Congress, Asilomar Conference Grounds, California.
1997. **Pravosudov, V. V.** and Grubb, T. C., Jr. Avian body mass and predation risk: is the evidence clear? Spoken presentation. Animal Behavior Society Meeting, University of Maryland, College Park, Maryland.
1996. **Pravosudov, V. V.** and Grubb, T. C., Jr. Avian body mass and food-caching may be independent responses to starvation risk. Spoken presentation. Animal Behavior Society Meeting, Flagstaff, Arizona.
1995. Lahti, K., Koivula, K., **Pravosudov, V.**, Rytkunen, S., and Orell, M. Tits avoid food storing in the presence of conspecifics. Birds 95. The Third Congress of Finnish Ornithology, Oulu, Finland.
1995. **Pravosudov, V. V.** and Grubb, T. C. Jr. Daily foraging and hoarding routines of wintering birds: a test. Poster. American Ornithologists' Union 113th Stated meeting, Cincinnati, Ohio.
1995. **Pravosudov, V. V.** and Grubb, T. C., Jr. Fattening and hoarding in birds when food is unpredictable: are they really alternatives? Spoken presentation. Animal Behavior Society Meeting, Lincoln, Nebraska.
1994. **Pravosudov, V. V.**, Cimprich, D. A., and Grubb, T. C., Jr. Behavior, nutritional condition and survivorship in mixed-species foraging groups: an experimental approach. Spoken presentation. XXI International Ornithological Congress, Vienna, Austria.
1993. **Pravosudov, V. V.** Social organization of the Eurasian Nuthatch (*Sitta europaea asiatica*). Spoken presentation. Wilson Ornithological Society Meeting, Guelph, Ontario, Canada.
1990. **Pravosudov, V. V.** Social organization in Nuthatch *Sitta europaea asiatica.* Poster. Third International Conference of Behavioral Ecology, Uppsala, Sweden.
1986. **Pravosudov, V. V.** On the relation between residency and food storage behavior in birds (with examples of Willow and Siberian tits). Spoken paper. IX Congress of Russian Ornithologists, Leningrad, Russia.
1983. **Pravosudov, V. V.** Feeding rate of female by male during breeding in Siberian and Willow tits. XI Baltic Republics conference.

INVITED PROFFESIONAL PRESENTATIONS (last six years):

2008. University of Nebraska, Lincoln, NE, Ecology, Evolution and Behavior Seminar series, School of Biological Sciences. Merging behavioral ecology and neurobiology – spatial memory and the hippocampus, March 28, 2008.
2007. University of Southern Illinois, Carbondale, IL, Department of Zoology. Integrating behavioral ecology and neurobiology – spatial memory in birds. November 8, 2007 (speaker selected by graduate students).
2006. University of Kentucky, Lexington, Department of Biology and Program in Cognitive Sciences. Integrating ecology and neurobiology – spatial memory in birds. March 23, 2006.
2005. University of Nevada, Reno, Department of Biology. Spatial memory in food caching birds – from natural history to mechanisms.
2004. University of Nevada, Reno, Department of Psychology. Learning to survive - adaptive specialization of spatial memory in food-caching birds.
2003. University of California, Davis, Animal Behavior Graduate Group seminar. Learning to survive - adaptive specialization of spatial memory in food-caching birds.
2003. University of California, Davis, Department of Psychology. The relationship between dominance, corticosterone, memory and food caching in mountain chickadees (*Poecile gambeli*).
2003. Virginia Polytechnic Institute and State University, Blacksburg, VA. Spatial memory in food-caching birds as an adaptation to variable environment.

PROFESSIONAL SERVICE:

Review Editor for *Frontiers in Behavioral Neuroscience* (October 2008-current)
Editor for *Animal Behaviour* (August 2009-)

Served as a reviewer for the following peer-reviewed scientific journals (28):

- *American Naturalist*
- *Proceedings of the Royal Society: Biological Sciences*
- *Philosophical Transactions of the Royal Society: Biological Sciences*
- *Brain Research*
- *Acta Zoologica Sinica*
- *The Condor*
- *Journal of Avian Biology*
- *Animal Behavior*
- *The Auk*
- *Ornis Fennica*
- *IBIS*
- *Behavioral Ecology*
- *Acta Biotheoretica*

- *Journal of Comparative Psychology*
- *Journal of Field Ornithology*
- *The University of Chicago Press*
- *Journal of Animal Ecology*
- *Behavioral Ecology and Sociobiology*
- *Behaviour*
- *Hormones and Behavior*
- *Ethology*
- *General and Comparative Endocrinology*
- *Oikos*
- *Ecology*
- *Proceedings of the National Academy of Sciences, USA (PNAS)*
- *Trends in Cognitive Sciences (TICS)*
- *Animal Cognition*
- *Biology Letters*

Served as a reviewer for the following national and international research-funding agencies and societies:

- *National Science Foundation (US)*
- *UK Biotechnology and Biological Sciences Research Council (UK)*
- *Natural Sciences and Engineering Research Council of Canada (Canada, NSERC)*
- *The Marsden Fund Council, New Zealand (The Marsden Fund has been set up by the New Zealand Government to fund excellent fundamental research in a wide range of fields in the sciences, engineering, the social sciences and the humanities. The Fund is administered by the Royal Society of New Zealand)*
- *Animal Behavior Society (US)*

2003: reviewer for Animal Behavior Society Student Research Grant Awards

2003- present: Member of the film committee, Animal Behavior Society
2005: Member of the Founder's Award Committee, Animal Behavior Society
2003-2005: Seminar Committee, Animal Behavior Graduate Group, University of California Davis
2005-present: member of the Sagehen Reserve Program Planning Advisory Group
2008: Member of the Organizing Committee for the international conference entitled: "Integrative Biology of Scatter Hoarding: Ecology, Psychology and Neuroscience", Cornell University (Ithaca, NY), 8-9 August 2008.

GRADUATE STUDENT ADVISING:

Past:

- Kirsten Sanford, PhD student, University of California Davis (graduated Fall 2006).
- Alicja Omanska, Masters student, California State University Sacramento (graduated in 2005). Currently works as Research Associate at UC Davis.

Present:

- Miles Becker, PhD student, EECB, University of Nevada Reno: fall 2007-current
- Ruby Baxter, Masters student, Department of Biology, University of Nevada Reno: fall 2009-current

UNDERGRADUATE STUDENTS:

Past:

- Jody Johnston, UNR student (Fall Semester 2007)
- Kathleen Cornfield, UNR student (Spring 2008)
- Ashley Rolfe, UNR student (Spring 2008)
- Sheena Jones, UNR student, recipient of the 2008 General Undergraduate Research Award.
- Alexandra White, UNR student

Current (Summer 2009):

- Geniveve Hanson, UNR student (working in the lab since fall 2007)
- Leia Chancellor, UNR student

POSTDOC ADVISING:

- Timothy C. Roth II (PhD, Indiana State University): April 1, 2007- current
- Rebecca Fox (PhD, University of California Davis, Animal Behavior Graduate Group): July 1, 2007 – current
- Lara LaDage (PhD, University of Memphis): August 1, 2007 - current

TEACHING:

Completed a one-semester course in Pedagogy at Leningrad State University (Russia) including teaching Zoology in high school.

Teaching assistantships at the Ohio State University:
1991-1992 General Biology
1992 Ornithology
1992-1994 Introductory Ethology
1992-1993 Introductory Zoology

Instructor

University of Nevada Reno:

Principles of Animal Behavior, BIO481/681 (appr. 50 students, Spring 2006, 2007, 2008, 2009), 3 units. New course developed at UNR with focus on conceptual issues and writing abilities. Teaching involved Power Point Presentations, video and computer clips demonstrating conceptual issues, reading primary research literature for every class, large written assignment and student Power Point Presentations on their written projects at the end of the class.

Introduction to Organismal Biology, BIO191 (appr. 200 students, Fall 2006), 3 units. This is a large introductory Biology class; developed anew at UNR. Teaching involved Power Point Presentations. Average student evaluations: 60% of students recommended this class and 53% of students recommended the instructor.

Special Topics in Neuroecology, graduate class, EECB 751 (8 students, Fall 2007), 2 units. In this advanced graduate course we read and discussed literature on neuroecology, a fairly new field that merges ecology and neurobiology in order to understand evolution of the brain. We specifically focused on a controversy existing between traditional psychologists/neurobiologists and neuroecologists on whether studying function may help in the study of causation. Several papers were assigned for discussion for every class and everybody was supposed to engage in critical discussion. To insure that everybody came prepared, I randomly chose a discussion leader at the beginning of each class. A chosen discussion leader job was to provide a brief introduction based on the assigned reading, and lead the discussion. Final grades were based on leadership and active participation in weekly discussions. 100% of students recommended this course and the instructor.

Special Topics in Ecology: Integrating Endocrinology with Ecology and Conservation Biology, graduate class, EECB 751 (Fall 2008).

Behavioral Ecology, BIO488/688, 3 units, appr. 40 students, Fall 2009, New course.

University of California Davis:

2002: Spring Quarter – ***Animal Behavior***, NPB102, (appr. 200 students). 3 units course, one-hour lecture, 3 days a week). I have fully developed this course. It covers principles of Animal Behavior and emphasizes interdisciplinary approach spanning behavioral ecology, neurobiology and physiology.

2002: Summer Session – ***Animal Behavior***, NPB102, (54 students). 3 units course, 65 min lecture, 4 days a week, six weeks.

2003: Fall Quarter – ***Animal Behavior Graduate Seminar***

2004: Spring Quarter – ***Animal Behavior Graduate Seminar***
2004: Fall Quarter – ***Animal Behavior Graduate Seminar***
2005: Spring Quarter – ***Animal Behavior Graduate Seminar***

PROFESSIONAL MEMBERSHIPS:

- Society for Integrative and Comparative Biology
- Society for Behavioral Neuroendocrinology
- International Society for Behavioral Ecology
- Animal Behavior Society
- Cooper Ornithological Society
- American Ornithologists' Union

COVERAGE OF MY RESEARCH IN TEXTBOOKS:

- John Alcock, *Animal Behavior*, Eighth Edition, Sinauer, 2005, pp. 63-64
- Randy J. Nelson, *An Introduction to Behavioral Endocrinology*, Third Edition, Sinauer, 2005, pp. 744-746
- Don Bradshaw, *Vertebrate Ecophysiology: An Introduction to Its Principles and Applications*, 2003, Cambridge University Press, p. 96.
- Lee Alan Dugatkin, *Principles of Animal Behavior*, Second Edition, W. W. Norton and Company, 2008, pp. 354-355.

COVERAGE OF MY RESEARCH IN POPULAR MEDIA:

2005. "Feed the birds. Song bird study offers new insights into how malnutrition impairs development and cognition" by Rachel Adelson, *American Psychological Association Monitor*, v. 36, No. 11 2005.
2005. "Finding the stash: interview with Vladimir Pravosudov", *Bay Nature*, First Person, October-December 2005.
2004. Interview with Vladimir Pravosudov, *Interpretive Birding*, vol. 5.
2004. "Rain, snow fails to deter clever, all-weather chickadees". By Erin Digitale, *UCDavis Dateline*, v. 18, No. 6.
2004. "Where'd I put that? May be it takes a bird to find car keys". By Susan Milius, *Science News*, v. 165, No. 7.
2003. "Stress for survival", *New Scientist*, v. 179, No. 2407, p. 24.
2002. "Food for thought", by Rachel Adelson, *American Psychological Association Monitor*, v. 33, No. 7, July/August 2002.
2002. "Harsh conditions make birds brainy". *Trends in Cognitive Sciences*, v. 6, No. 9.
2000. "Eat like a bird? Not Alaska's chickadees". *Anchorage Daily News*, Nov. 23, 2000.
2000. "Birds' social x-rays", *The New York Times*, April 18, 2000.

Department and University Service (Department of Biology, University of Nevada Reno):

NIH INBRE Undergraduate Research Opportunity Program – reviewer (March 2006)

EECB (Evolution, Ecology and Conservation Biology) graduate group, member of the curriculum evaluation committee (2005)

Member of a Search Committee for two faculty positions in Developmental Biology (2006-2007). Application review, telephone interviews, in person interviews, committee meetings (appr. 50 hours).

Member of a Search Committee for two faculty positions in Ecology and Conservation Biology (2007-2008). Assistant Professor position – appr. 40 hours (141 applications; review of applications, committee meetings and telephone interviews); Assistant/Associate Professor position – appr. 30 hours (67 applications; review of applications, committee meetings and telephone interviews)

EECB (Evolution, Ecology and Conservation Biology) graduate group; member of the student funding committee (2006-present). About 20-30 hours per year (committee meetings, application review).

UNR Institutional Animal Care and Use Committee (IACUC); alternate member; July 1, 2009-June 30, 2012.

UNR, College of Science – member of the College Personnel Committee (2009-2010)

UNR, Department of Biology – member of the Department Personnel Committee (2008 – present)