

Jan K. Tornick, Ph.D.

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University of New Hampshire
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Education

- 2012 **Ph.D. Psychology** (Brain, Behavior and Cognition)
University of New Hampshire College of Liberal Arts
Dissertation: An investigation of non-spatial cognitive abilities in an asocial corvid, the Clark's nutcracker (*Nucifraga columbiana*)
Dissertation Committee: Dr. Brett M. Gibson (chair), Dr. Robert Drugan, and Dr. Robert Mair, Dr. Michelle Pellessier Scott, Dr. Winsor Watson
- 2012 **Cognate in College Teaching**
University of New Hampshire Graduate School
Program director: Michael Lee
- 2009 **M.A. Psychology** (Brain, Behavior and Cognition)
University of New Hampshire College of Liberal Arts
Thesis: Inferential Reasoning in the Clark's Nutcracker (*Nucifraga columbiana*)
Thesis Committee: Dr. Brett M. Gibson (chair), Dr. Robert Drugan, and Dr. William Stine
- 2007 **M.S. Zoology** (Animal Behavior)
University of New Hampshire College of Life Sciences
Thesis: Nest-Guarding and Aggression in the Red-backed Salamander, *Plethodon cinereus*
Thesis Committee: Dr. Michelle Pellissier Scott (chair), Associate Dean Dr. Kimberly Babbitt, and Dr. David Berlinsky
- 2003 **B.S. Biology**
Ramapo College of New Jersey, Mahwah NJ
Magna cum laude
Advisor: Dr. Edward Saiff

Professional Experience

- 2008-present **Lecturer- College courses**
- . Psychobiology (in-person and online)
 - . Animal Cognition
 - . Psychology of Primates
 - . Introduction to Psychology (including large sections- up to 230 students)
 - . Behavior Analysis (Learning and Behavior)
 - . Lifespan Development (online)

2004-2008 **Teaching Assistant- College courses:**

- . Behavior Analysis
- . Human Biology-Lab
- . Mammalogy-Lab and comprehensive coursework design
- . Animal Behavior-Lab
- . Anatomy & Physiology-Lab and lecture
- . Behavioral Ecology-Lab
- . Introduction to Psychology
- . Research Methods and Statistics
- . Animal Cognition
- . Pioneers of Psychology

2004-present **Guest Lecturer- College courses:**

- . Anatomy & Physiology
- . Mammalogy
- . Pioneers of Psychology
- . Psychobiology
- . Neuroscience and Behavior

2004-2011 **Lab work-**

- . Radioimmunoassay
- . Endocrinology
- . Behavioral studies
- . Developmental studies
- . Animal husbandry
- . Operant conditioning

2004-present **Field work-**

- . Pitfall trap deployment
- . Animal tracking and collection
- . Behavioral observation and data collection
- . Egg collection

Prior to 2003 **Other-**

- . Animal rehabilitation- Warriors for Wildlife
- . Mammal rescue (*Procyon lotor*)
- . Ornithological research (Tyrannidae, tyrant flycatchers) - American Museum of Natural History, Iquitos, Peru
- . Animal identification and tracking, NH species
- . Museum specimen preparation (mammals)
- . Radiation training
- . e-workshop Teaching Biological Psychology

Professional Memberships

- . Comparative Cognition Society
- . Psychonomics Society

- . Animal Behavior Society
- . Society for the Study of Amphibians and Reptiles
- . Sigma Xi
- . Beta Beta Beta (national honor society in biology)
- . Phi Theta Kappa (international honor society)
- . Women in Science
- . The Society for the Teaching of Psychology
- . American Psychological Association
- . Graduate Student Teaching Association
- . Golden Key (international honor society)

Grants, Fellowships, and Awards

- . Dissertation Year Fellowship (2011) (\$16,500)
- . (6) Teaching Assistantships 2004-2010 (approx. \$13,500 each year)
- . (5) Summer TA Fellowships (2006, 2008, 2009, 2010, 2011) (\$3,150 each year)
- . Agriculture Experiment Station- Hatch RA 2006 (\$2,000)
- . Scholarship for Part-time Students 2006 (\$1,000)
- . College of Life Sciences and Agriculture Graduate Fellowship 2005 (\$500)
- . Frizzell Fund Fellowship 2005 (\$500)
- . Travel Awards (2007, 2011) (\$400 each)
- . Excellence in Teaching Award- Department of Zoology, UNH 2005-2006 (\$100)

Publications

Tornick, J.K., S. Rushia, and B.M. Gibson (2016). Clark's nutcrackers (*Nucifraga columbiana*) are sensitive to distance, but not lighting when caching in the presence of a conspecific. *Behavioural Processes* 123: 125–133.

Tornick, J.K., E.S. Callahan, and B.M. Gibson (2015). Numerical cognition in the Clark's nutcracker, *Nucifraga columbiana*. *Journal of Comparative Psychology* 129 (1): 17-25.

Tornick, J.K. and D. Berlinsky (2014). Development and validation of a non-lethal method for monitoring steroid hormones in Plethodontid salamanders. *Herpetological Review* 45(2): 13-17.

Tornick, J.K., and B.M. Gibson (2013). Tests of inferential reasoning by exclusion in Clark's nutcrackers (*Nucifraga columbiana*). *Animal Cognition* 16: 583-597.

Tornick, J.K. (2012). An Investigation of Non-Spatial Cognitive Abilities in an Asocial Corvid, The Clark's Nutcracker (*Nucifraga Columbiana*). Ph.D. Dissertation, University of New Hampshire, Durham, N.H.

Tornick, J.K., B. M. Gibson, D. Kispert, and M. Wilkinson (2011). Clark's nutcrackers (*Nucifraga columbiana*) use gestures to identify the location of hidden food. *Animal Cognition* 14: 117-125.

Tornick, J.K. (2010). Factors affecting aggression during nest guarding in the Eastern red-backed salamander (*Plethodon cinereus*). *Herpetologica* 66(4):385-392.

Tornick, J.K. (2010) Adult Red-Backed Salamander. Photo-Cover of Herpetologica issue 66.

Popular Press

4th of July fireworks fusillades are no fun for Fido. Todd Feathers. New Hampshire Union Leader (July 02, 2018)

Birds of a Feather: Memory and the Clark's nutcracker (Jan. 26, 2012). UNH today

It's not the size of the salamander, it's the size of the fight in the salamander. Science News, Science Daily (Dec. 6, 2010). Story reprinted (with editorial adaptations by Science Daily staff) from materials provided by Allen Press Publishing Services, via News wise.

Manuscripts in Preparation

Tornick, J.K. and B.M. Gibson (in preparation). Caching behavior in Clark's nutcrackers. Journal of Comparative Psychology.

Oral presentations

Tornick, J. (2009). Clark's nutcrackers use human-given gestures to find hidden food. Paper presented at meeting of the Comparative Cognition Society- Boston, Massachusetts.

Gibson, B. M., **Tornick, J.** (2008). Test of metamemory and inference by exclusion in the Clark's nutcracker. Paper presented at the annual meeting of the Comparative Cognitive Society, Melbourne, Florida.

Poster presentations

Tornick, J. (2006) Aggression during nest guarding in the Eastern red-backed salamander (*Plethodon cinereus*). Joint meeting of Ichthyologists and Herpetologists- New Orleans, Louisiana and Graduate Research Conference- Durham, New Hampshire.

Tornick, J. (2007) Clark's nutcrackers (*Nucifraga columbiana*) use human touching, pointing, and gazing gestures to identify the location of hidden food. Animal Behavior Society- Burlington, Vermont and Graduate Research Conference- Durham, New Hampshire.

Tornick, J. (2011) Inferential reasoning by exclusion in the Clark's nutcrackers (*Nucifraga columbiana*). Joint Meeting of the Animal Behavior Society and the International Ethological Society- Bloomington, Indiana and Graduate Research Conference- Durham, New Hampshire.

White, A., K.L. Couture and **J.K. Tornick** (2016) Physical and Emotional Improvements of Patients Through Dolphins Facilitated Healing Experiences- Some Case Studies. Department of Biological Sciences and the Department of Psychology in Collaboration with Pure Fin, LTD. Undergraduate Research Conference, University of New Hampshire, Durham, New Hampshire.

Goodwin, J. and **J.K. Tornick** (2017) Do leopard geckos (*Eublepharus macularius*) prefer rock or classical music? Department of Psychology. Undergraduate Research Conference, University of New Hampshire, Durham, New Hampshire.

Other

- . Neuroscience and Behavior Program Coordinator (Fall 2017)
- . NSF Graduate Research Fellowship Program (GRFP) Panelist (2015).
Psychology: Cognitive, Neuroscience, Experimental, Comparative, Physiological, Quantitative, Perception, Psychophysics
- . *Ad hoc* reviewer for the peer-reviewed journal *Animal Behaviour*.
- . *Ad hoc* reviewer for the peer-reviewed journal *Behavioural Processes*.
- . *Ad hoc* reviewer for the peer-reviewed journal *Animal Cognition*.
- . Textbook reviewer for “Behavioral Neuroscience”, 8th ed. by S. Marc Breedlove and Neil V. Watson, 2017. Sinauer Associates Publishers (PART II Evolution and Development of the Nervous System- Chapter 6 Evolution of the Brain and Behavior)
- . Textbook reviewer for “Biological Psychology, An Introduction to Behavioral, Cognitive, and Clinical Neuroscience” 7thed. Breedlove and Watson, 2015. Sinauer Associates Publishers (Chapter 9. Hearing, Vestibular Perception, Taste, and Smell).
- . Textbook reviewer for “Principles of Psychology” S. Marc Breedlove, Michigan State University. 2016. Oxford University Press.
- . Affiliate member of the Neuroscience and Behavior Program at UNH.
- . Subject Matter Expert in Behavior Analysis for Southern New Hampshire University
- . Reviewer for Graduate Women in Science Fellowship
- . UPDOC committee
- . 700 level labs committee
- . Cognitive Neuroscience faculty search committee (2017)