

Allison B. Kaufman

University of Connecticut
Department of Ecology and Evolutionary Biology
Torrey Life Science, Room 312
75 North Eagleville Road, Unit 3043
Storrs, CT 06269-3043
860-486-4685
allison.kaufman@uconn.edu

Education

- 2010** University of California at Riverside
Riverside, California
Ph.D., Neuroscience
Advisor: Dr. Curt Burgess
Dissertation: "Assessing Animal Vocalizations Using the Hyperspace Analog to Language (HAL) Model"
- 2000** Rutgers University, Cook College
New Brunswick, New Jersey
- B.S., Biology
Magna Cum Laude
- B.S., Natural Resource Management
Magna Cum Laude
- Undergraduate Honors Thesis* - "Reinforcement Used in the Training of Captive Seals"

Employment

- 2015 – present** University of Connecticut, Avery Point
Department of Psychology
Adjunct Professor
- 2014 – present** University of Connecticut
Department of Marine Sciences
Adjunct Professor
- 2013 – present** University of Connecticut
Department of Ecology and Evolutionary Biology
Research Scientist

- 2009 – 2013** California State University, San Bernardino
San Bernardino, CA
Instructor, department of Psychology
- 2004 – 2009** University of California, Riverside
Riverside, California
Teaching Assistant, departments of Biology and
Cell Biology and Neuroscience

Publications

(work conducted before May, 2002 was as Allison B. Katz)

Books

- Kaufman, A. B., and J.C. Kaufman, eds. (2015). *Animal creativity and innovation*. San Diego, CA: Academic Press.
- Kaufman, A.B. and J.C. Kaufman, eds. (in press). *Pseudoscience: The conspiracy against science*. Boston, MA: MIT Press.
- Kaufman, A.B., Bashaw, M.J, and T. Maple, eds. (in press). *The scientific foundation of zoos and aquariums: Their role in conservation and research*. Cambridge, UK: Cambridge University Press.
- Kaufman, A.B., and E.N. Colbert-White. *Animal Cognition 101*. Psychology 101 series, Springer Publishing. Proposal under review, solicited by series editor.
- Kaufman, A.B., Call, J., and J.C. Kaufman, eds. *Cambridge Handbook of Animal Cognition*. Cambridge University Press. Under discussion with tentative verbal agreement.

Articles

- Kaufman, A.B. (2014). Let's talk about Citizen Science: What *doesn't* work. *Animal Behaviour and Cognition*. 1:442-447.
- Kaufman, A.B., and J.C. Kaufman. (2014). Applying theoretical models of human creativity to animal studies. *Animal Behaviour and Cognition*.1: 77-89.
- Kaufman, A.B., Colbert-White, E.N., and R. Rosenthal. (2014). A

- novel rater agreement methodology for language transcriptions: Evidence from a nonhuman speaker. *Quality and Quantity*. 48: 2329-2339.
- Kaufman, A.B., Colbert-White, E.N., and C. Burgess. (2013). Higher-order syntactical structures in an African Grey parrot's vocalizations: Evidence from the Hyperspace Analog to Language (HAL) model. *Animal Cognition*. 16: 789-801.
- Kaufman, A.B., Green, S.R., Seitz, A.R., and C. Burgess. (2012). Using a Self-Organizing Map (SOM) and the Hyperspace Analog to Language (HAL) model to identify patterns of syntax and structure in the songs of humpback whales. *International Journal of Comparative Psychology*. 25: 237-275.
- Kaufman, A.B., Butt, A.E., Kaufman, J.C., and E. N. Colbert-White (2011). Towards a neurobiological model of creativity in animals. *Journal of Comparative Psychology*. 125: 255-272
- Kaufman, A.B., and R. Rosenthal. (2009). Can you believe my eyes? The importance of inter-observer reliability statistics in observations of animal behaviour. *Animal Behaviour*. 78: 1487-1491.
- Kaufman, A. B. (2004). A model for creativity in animals: Its development and some applications for marine animals. *Soundings: The Quarterly Publication of the International Marine Animal Trainers Association*. 29, 8 - 11.
- Kaufman, J.C., and A. B. Kaufman (2004). Applying a creativity framework to animal cognition. *New Ideas in Psychology*. 22, 143 – 155.

Chapters

- Kaufman, A.B. and W. J. O'Hearn. (in press). Animal Creativity. In: J. C. Kaufman, V. P. Glaveanu and J. Baer, *The Cambridge Handbook of Creativity Across Disciplines*. New York: Cambridge University Press.
- O'Hearn, W.J., Kaufman, A.B., and J.C. Kaufman. (2015). Animal Creativity and Innovation: An Integrated Look at the Field. In: A.B. Kaufman and J.C. Kaufman (eds.), *Animal Creativity and Innovation* (pp. 501-506). Waltham, MA: Academic Press.
- Kaufman, A.B., Kornilov, S.A., Bristol, A.S., Tan, M., and E.L. Grigorenko. (2010). The neurobiological foundations of creative cognition. In: J.C.

- Kaufman and R.J. Sternberg (eds.), *Cambridge Handbook of Creativity* (pp. 216-232). New York: Cambridge University Press.
- McCowan, B., Doyle, L. R., Kaufman, A.B., Hanser, S. F., and C. Burgess. (2008). Detection and estimation of complexity and contextual flexibility in nonhuman animal communication systems. In: U. Griebel and K. Oller (eds.), *Evolution of Communicative Flexibility: Complexity, Creativity, and Adaptability in Human and Animal Communication* (pp. 281-304). Cambridge, MA: MIT Press.
- Kaufman, J. C., Plucker, J. A., Dow, G. T., Baer, J., Andrews, C. J., Mitchell, E. R., and A.B. Kaufman. (2006). Creativity and the special education student. In E. Fletcher-Janzen & C. R. Reynolds (Eds), *Special Education Almanac* (pp. 369-390). New York: John Wiley.
- Kodrlová, I., Kaufman, A. B., Kaufman, J. C., Čermák, I., and C. Burgess. (2005). Analýza deníků Sylvie Plathové pomocí HAL. (Analyses of Sylvia Plath's journals with the help of HAL). In M. Miovsky, I. Cermak, & Vladimir Chrz (Eds)., *Kvalitativní přístup a metody ve vědách o člověku IV*. Olomouc, Czech Republic: Olomouc.

Book Reviews

- Kaufman, A.B. and J.C. Kaufman. (2009). Review of Scenario Visualization by Robert Arp. *American Journal of Biology*. 21, 139-140.
- Kaufman, A.B. (2007). An Overview of the Neuroscience of Creativity: Review of Creativity and the Brain by Kenneth M. Heilman. *Psychology of Aesthetics, Creativity, and the Arts*, 1(4), 250 –251.

Encyclopedia Entries

- Kaufman, A.B. (2008). Baja California. In M. Lück (Ed.). *Encyclopedia of Tourism and Recreation in Marine Environments* (pp. 46-47). Wallingford, UK: CAB International.
- Kaufman, A.B. (2008). Clicks. In M. Lück (Ed.). *Encyclopedia of Tourism and Recreation in Marine Environments* (pp. 92). Wallingford, UK: CAB International.
- Kaufman, A.B. (2008). Educational Cruises. In M. Lück (Ed.). *Encyclopedia of Tourism and Recreation in Marine Environments* (pp. 150-151). Wallingford, UK: CAB International.

- Kaufman, A.B. (2008). Intergovernmental Oceanographic Commission. In M. Lück (Ed.). *Encyclopedia of Tourism and Recreation in Marine Environments* (pp. 234). Wallingford, UK: CAB International.
- Kaufman, A.B. (2008). International Fund for Animal Welfare. In M. Lück (Ed.). *Encyclopedia of Tourism and Recreation in Marine Environments* (pp. 241). Wallingford, UK: CAB International.
- Kaufman, A.B. (2006). Conditional Probability. In N. J. Salkind (Ed.), *Encyclopedia of Measurement and Statistics* (pp. 176-177). London: Sage.
- Katz, A. B. (2003). Acromicric Dysplasia. In E. Fletcher Janzen & C. R. Reynolds (Eds.), *Childhood Disorders Desk Reference* (pp. 8-9). New York: Wiley.
- Katz, A. B. (2003). Biliary Cirrhosis, Primary. In E. Fletcher Janzen & C. R. Reynolds (Eds.), *Childhood Disorders Desk Reference* (pp. 86-87). New York: Wiley.

Presentations

- Kaufman, A.B. (2016, August). *Biological roots of creativity: From neuroscience to ecology and evolution*. Invited talk to be given at Pontificia Universidad Catolica de Chile, Santiago, Chile.
- Kaufman, A.B. (2015, November). *Innovation and Tool Use in Animals*. Invited talk at the Connecticut Parrot Society, Berlin, Connecticut.
- Kaufman, A.B., and J.C. Kaufman. (2014, November). *The Psychology of Animal Creativity*. Invited talk at Western Connecticut State University.
- Kaufman, A.B. (2014, November). *Innovation Abilities in Animals and Their Necessity for Survival in Global Climate Change*. Talk presented for The Global Café at The University of Connecticut, Avery Point.
- Yeater, D., Kaufman, A.B., Dudzinski, K.M., and D.K. Melzer. (2014, August). *Who trains what and whom?* Poster presented at the *Animal Behavior Society*, Princeton, NJ.
- Kaufman, A.B. (2014, January). *The neuropsychological roots of creativity*. Invited talk at Nanyang Technical University, Singapore

- Kaufman, A.B. (2013, May). Creativity and animals: A cognitive and neurological model. Invited talk at Shaanxi Normal University, Xi'an, China.
- Kaufman, A. B., Reynolds, M.R. and A.S. Kaufman. (2013, August). Psychometric analysis of the abilities of apes and 2.5 year olds. Paper presented at *American Psychological Association*, Honolulu.
- Kaufman, A.B. (2007, November). *The neuropsychological roots of creativity*. Invited talk given at National Kaohsiung Normal University, Kaohsiung, Taiwan.
- Kaufman, A.B., Butt, A.E., and J.C. Kaufman. (2007, November). Creativity and animals: A cognitive and neurological model. Talk presented at the *Society for Neuroscience Convention*, San Diego.
- Burgess, C. and A.B. Kaufman. (2007, November). Examining the evidence for recursion in animals. Poster presented at the *Psychonomics Society Convention*, Long Beach.
- Kaufman, A. B., Burgess, C., Chakravartty, A., and B. McCowan. (2006, November). HAL meets flipper: Modeling of marine mammal vocalizations in high dimensional semantic space. Poster presented at *Psychonomics Society Conference*, Houston.
- Kaufman, A. B., Burgess, C., and B. McCowan. (2006, August). Modeling Marine Mammal Vocalizations in High-Dimensional Semantic Space. Poster presented at *American Psychological Association*, New Orleans.
- Kaufman, A. B., Butt, A. E., and J.C. Kaufman. (2006, August). Creativity in Animals: A Cognitive and Neurological Model. Poster presented at *American Psychological Association*, New Orleans.
- Kaufman, A. B., Burgess, C., and B. McCowan. (2005, November). HAL "sleeps with the fishes": Modeling of marine mammal vocalizations in high dimensional semantic space. Poster presented at the *Society for Computers in Psychology (SCiP) Conference*, Toronto, Ontario, Canada.
- Kaufman, A. B., Burgess, C., and B. McCowan. (2005, December). HAL meets flipper: Modeling of marine mammal vocalizations in high dimensional semantic space. Poster presented at the *Society for Marine Mammalogy Conference*, San Diego, California.
- Kaufman, A.B. (2005, May). *Creativity and Linguistic Modeling in Animals*. Invited talk at National Yang Ming University, Taipei, Taiwan.

Kaufman, A.B. (2005, May). *Creativity and Linguistic Modeling in Marine Mammals*. Invited talk at National Taiwan University, Taipei, Taiwan.

Kaufman A. B., Kodrlová, I., Čermák, I., and C. Burgess. (2005, January). HAL (The Hyperspace Analog to Language Model). Poster presentation at *IV. ročník česko-slovenské konference Kvalitativní přístup ve výzkumu ve vědách o člověku & II. ročník konference Kvalitativní přístup v adiktologickém výzkumu*, Olomouc, Czech Republic.

Kodrlová, I., Kaufman A. B., Kaufman, J. C., Čermák, I., and C. Burgess. (2005, January). Analýza deníků Sylvie Plathové pomocí HAL (The Hyperspace Analog to Language Model). Presented at *IV. ročník česko-slovenské konference Kvalitativní přístup ve výzkumu ve vědách o člověku & II. ročník konference Kvalitativní přístup v adiktologickém výzkumu*, Olomouc, Czech Republic.

Kaufman, A.B. (2004, March). *A model for creativity in animals: Its development and applications*. Invited talk at Akdeniz University, Antalya, Turkey.

Kaufman, A. B. (2003, November). A model for creativity in animals: Its development and some applications for marine animals. Presented at the *International Marine Animal Trainers Association (IMATA) Conference*, Long Beach, California.

Editorial Activities

Editorial Board: *International Journal of Creativity and Problem Solving*

Manuscript Reviewer: Jossey-Bass; McGraw Hill Publishers; Worth Publishing

Ad Hoc Reviewer: *Animal Behaviour, Animal Cognition, Aquatic Mammals, Behavioural Processes, International Journal of Biodiversity and Conservation, International Journal of Comparative Psychology, Journal of Creative Behavior, Learning and Individual Difference, Neurocase, Perceptual and Motor Skills, Psychology of Popular Media Culture, Psychological Assessment, Psychological Reports*

Media

Animal Love Stories. 2013. BBC Natural World documentary series.
Consultant.

Media Review for *Discovering Biological Psychology*, by Laura Freberg,
Cengage Publishing

Animal Artists. Interview aired on June 30, 2006 on *Studio 360*, a National Public
Radio program.

Non-Peer Reviewed Articles

Kaufman, A. B. (2004). The Creative Canine. *The Clicker Journal*. 68, 4-7.

Kaufman, A. B. (2004). Creativity and innovation in clicker training.
The Clicker Journal. 64, 4-6.

Academic Honors and Awards

Chancellor's Dissertation Fellowship, 2 quarters, 2009-2010

Janet M. Boyce Memorial Scholarship, 2007, 2008

George H. Cook Scholar, 1999

Professional Organizations

AZA, American Zoo and Aquarium Association

IMATA, International Marine Animal Trainer's Association

The Society for Marine Mammalogy

Other Teaching/Work Experience

2013 - present Mystic Aquarium
Mystic, CT
Volunteer; education, penguin, sea lion, and whale
husbandry

2002 – 2003 San Bernardino County Museum
Redlands, California
Animal care and education specialist

2001 – 2002 Educational Testing Service
Princeton, NJ
Research assistant

- 2000** The New York Aquarium
Brooklyn, NY
Instructor, education department
- 1997 - 2001** New Jersey State Aquarium (now Adventure Aquarium)
Camden, NJ
Intern, volunteer, temporary staff; seal and penguin team
- 1999 – 2000** The Douglass Project for Rutgers Women in Math, Science,
and Engineering
New Brunswick, NJ
Program assistant
- 1995 – present** Girl Scouts of the USA (adult member)
East Brunswick, NJ; Redlands, CA; and Hartford, CT
Troop leader (all ages), Trainer (specializing in leadership,
age level, and outdoors), Committee Chair,
Representative on a variety of International
committees (including Non-Governmental
Organizations at the United Nations)