

# JENSVOLD AFFIDAVIT



Central Washington University. I am also faculty in Primate Behavior and Ecology Program, at Central Washington University. I have taught the following courses at Central Washington University: Primate Social Behavior, Chimpanzee Culture and Communication, Introduction to Primate Laboratory Experience, Laboratory Work in Primatology, Primate Culture and Cognition, Introduction to Psychology, Psychology of Thought and Language, and Nonverbal Behavior, among others.

4. I have been a member of the Board of Directors of the Animal Welfare Institute since 2007 and Friends of Washoe (a nonprofit organization dedicated to the welfare of chimpanzees) since 1999, and have been on the Advisory Board of the Fauna Foundation (a chimpanzee sanctuary in Quebec, Canada) since 1999. From 1997 – 2000 I served on the Scientific Advisory Board for the National Chimpanzee Sanctuary. I have held positions as a chimpanzee behaviour consultant at Fauna Foundation, a Principal Investigator for “Caring for Chimpanzees” Earthwatch Program at Central Washington University, and have been a research assistant for sign language studies of chimpanzees at the University of Nevada, Reno. I was recently awarded the Sigma Xi Distinguished Lecturer Award for 2013 – 2015.

5. My research specialization is in gestural communication and use of American Sign Language in chimpanzees. Additionally, I research play behaviour, imagination, culture and intelligence, as well as husbandry, welfare and environmental enrichment in captive chimpanzees. I have over twenty-seven years of experience working with and studying chimpanzees and daily firsthand experience interacting with them. As such, I possess both a theoretical and applied understanding of chimpanzee behaviour.

6. I have published 29 peer-reviewed articles, book chapters and encyclopedia entries on gestural communication, use of American Sign Language, the evolution of social

communication, as well as environmental enrichment, effects of enclosures and social interactions, in chimpanzees. My papers have appeared in some of the most prestigious journals in the area of animal behaviour, including *Animal Cognition*, *American Journal of Primatology*, *Journal of Applied Animal Welfare Science*, *Human Evolution*, and *Journal of Sociolinguistics*.

7. I have given 91 presentations at professional conferences throughout the United States and have also given 13 invited addresses at professional research conferences and at various universities throughout the United States. These presentations have covered the following relevant topics: gestures and signing, cultural transmission, laughter and play, vocabulary development (American Sign Language), conversational use of sign language, evaluation of enriched captive environments and neuroscientific models of continuity across ape and human communication systems. My Curriculum Vitae fully sets forth my educational background and experience and is annexed hereto as "Exhibit A".

#### **Basis for Opinions**

8. The opinions I state in this Affidavit are based on my professional knowledge, education, training, and 27 years of research with chimpanzees, as well as my review of peer-reviewed literature about primatology published in the world's most respected journals, periodicals and books that are generally accepted as authoritative in the field of primatology, many of which were written by myself and colleagues with whom I have worked for many years and whose research and field work I am personally familiar with. A full reference list of peer-reviewed literature cited herein is annexed hereto as "Exhibit B".

#### **Opinions**

9. Chimpanzees who have acquired comprehension and production of American Sign Language (ASL) provide a unique window into the minds of chimpanzees because ASL

provides a way for them to express themselves in a manner that humans understand well. The chimpanzees I have worked with have demonstrated purposeful communication, conversation, understanding of symbols, perspective-taking, imagination, and humor through my (and my colleagues') studies of their use of ASL over many years (Davila-Ross et al., 2009; Jensvold and Fouts, 1993; Jensvold and Gardner, 2000, 2007; Leitten et al., 2012). Moreover, the development of their use and understanding of sign language, along with their natural communicative gestures and vocalizations, parallels the development of language in human children, pointing to deep similarities in the cognitive processes that underlie communication in chimpanzees and humans (Jensvold, 2009; Lyn et al., 2011).

10. Studies of cross-fostered chimpanzees, that is, those who have been raised by humans and acquired a symbol-based language, reveal similar patterns of cognitive and communicative development in human infants and chimpanzees. There are numerous parallels in the way chimpanzee and human communication skills develop over time, suggesting a similar unfolding cognitive process across the two species and an underlying neurobiological continuity (Fouts and Waters, 2001). Chimpanzees show some of the same early developmental tendencies and changes in their communication skills as human children (Brakke and Savage-Rumbaugh, 1995; Fouts and Fouts, 2004; Gardner and Gardner, 1989; 1998). For instance, chimpanzees acquire vocabulary in patterns that resemble human children, with the difference being that the chimpanzees begin to sign earlier than children (Gardner & Gardner, 1994). The development of phrases in chimpanzees also parallels that in human children. Early vocabulary content of the chimpanzees' resembles that of human children as well. Patterns of eye gaze and turn taking (Hartmann, 2011) in conversation resemble human children as well. Chimpanzees modulate their signs, for example, changing the place where a sign occurs, to change the meaning of signs,

just as humans do (Charlcraft & Gardner, 2005). Declaratives are important because they show the communicator is using language as a way to share experience with another and not just request items like food or a toy both human children and signing and other symbol using chimpanzees use declaratives to name objects, to interact, and to negotiate (Lyn et al., 2011; Leeds and Jensvold, In press). They also use symbols to comment on other individuals and about past and future events (Lyn et al., 2011). The ability to communicate about past and future events is based on the shared sophisticated cognitive capacity for “mental time travel” for which there is substantial evidence in chimpanzees (Osvath and Osvath, 2008). In fact, chimpanzees have been found to make more statements about what they intended to do in the future compared with human children (Lyn et al., 2011). Chimpanzees and human children also combine gestures with pointing to refer to objects (Krause and Fouts, 1997). Therefore, these findings show that chimpanzees can make declarative statements and, thus, use language in a similar purposeful way as human children do (Lyn et al., 2011; Leeds and Jensvold, in press).

11. Purposeful communication is based on conversational interaction in which each of the participants exchanges turns communicating in a give-and-take manner and participants respond appropriately to the communicative actions of each other. Moreover, when the conversation becomes confusing, participants make contingent adjustments, e.g. offering a revised or alternative utterance/gesture or repeating a gesture or “sign” in order to continue the conversation. Signing chimpanzees demonstrate contingent communication with humans at the same level as young human children (Leitten et al., 2012). When humans feel that a conversation has broken down they repeat their utterance and also add more information to the original utterance. Likewise, chimpanzees engaged in sign language conversation with humans respond in the same way. When they make a request and it is satisfied, they cease signing their

request. When the request is misunderstood, refused or not acknowledged, they repeat and revise their signing until they get a satisfactory response. As in humans, this pattern of contingency in conversation is a key demonstration of volitional and purposeful communication and thought (Leavens et al., 2005; Leitten et al., 2012). In one of our studies, a human waited for a signing chimpanzee to initiate a conversation and responded in one of four ways: asking for more information, on-topic questions, off-topic questions, or negative statements. The rejoinders of the chimpanzees depended upon the kind of response they received from the human. Specifically, they reiterated, adjusted, and shifted the signs they were making to create conversationally appropriate rejoinders. For instance, if refused something by the human some of them persisted in their utterances while others shifted to another topic. Their reactions to and interactions with a conversational partner resembled patterns of conversation found in similar studies of human children (Jensvold and Gardner, 2000, 2007). In other studies, chimpanzees have demonstrated the capacity to understand that conversation involves turn-taking and mutual attention. If they wish to communicate with a human whose back is turned to them they will make attention-getting sounds, i.e. using only signs with a noisy sound component, such as smacking the hand. If the human is turned to them, they then switch to conversational sign language with few sounds (Bodamer and Gardner, 2002). Therefore, they intentionally try to alter the attentional state of the human. Not only do chimpanzees engage in conversation when signing but both wild and captive chimpanzees string together multiple gestures to create gesture sequences (Campion et al., 2011; Hobaiter and Byrne, 2011; McCarthy et al., 2013). Gestures may be combined into long series, within which gestures may overlap, be interspersed with bouts of response waiting or be exchanged back and forth between individuals. Here, too, their contingent use of gestural sequences demonstrates that their communication abilities are far more

complex than simple calls based on stimulus and response. Chimpanzees adjust their gestures and gestural sequences to the attention state of the individual they are trying to communicate with, using visual gestures towards an attentive partner and tactile and auditory gestures more often toward inattentive partners. If the partner does not respond, they repeat the gesture (Campion et al, 2011; Hobaiter and Byrne, 2011; Larson et al., 2011; McCarthy et al., 2011). Therefore, there is an abundance of evidence that both signing and wild chimpanzees understand the give-and-take of a conversation and adjust their communication to the attentional state of the individual they want to communicate with. This demonstrates visual perspective-taking and mental state modeling.

12. Signing chimpanzees also sign amongst themselves and exhibit a telltale sign of volitional use of language, that is, private signing or signing to themselves, also known as private speech. These examples show that chimpanzee sign language use is not a simple response to prompting by humans and is similar to the way human children develop language. Furthermore, signing chimpanzees spontaneously use ASL to communicate with each other (Fouts et al., 1989; Jaffe et al., 2002). For instance, Loulis (a male chimpanzee) was not raised with humans and was not taught ASL by humans. Nor did humans use ASL in his presence. But he was the adopted son of another signing chimpanzee, Washoe. Loulis acquired his signs from Washoe and the other signing chimpanzees. He was the first non-human to learn a human language from other non-humans. Thus, Loulis observed the other chimpanzees using the signs of ASL around him, like CHASE and TICKLE during play interactions. Moreover, Washoe would mold his hand into signs like MORE for more food. Loulis learned to use many signs in different categories (names, pronouns, verbs, etc.) as a direct consequence of social learning and being taught by his mother's



intentional and goal-directed shaping of his abilities (Fouts et al., 1989). Washoe's behavior toward her adopted son demonstrates perspective-taking and empathy (Fouts et al., 1989).

13. Human children from ages 2-7 years engage in private speech, i.e. talking to themselves (and it starts to trail off by late elementary school years). There is much evidence to support the argument that private speech has many functions and is a part of normal development of communication, self-guidance, self-regulation of behavior, planning, pacing, and monitoring skills (Furrow, 1984; Vygotsky, 1962). Private speech helps children to control and regulate their emotions and thoughts by focusing them on their own concerns and providing a buffer from external distractions. Private signing by signing chimpanzees has been well-documented (Bodamer et al., 1994; Fouts et al., 1984) and my colleagues and I have shown that there are numerous similarities to private speech in human children and chimpanzees (Bodamer et al., 1994). Chimpanzee private signing can be placed into the same functional categories as that of human children, and, just as with children, a few categories account for the majority of the utterances. In our studies we found that, just as in human children, a high percentage of the private utterances referred to objects present in the environment (Bodamer et al., 1994).


14. Human children also use private speech during creative and imaginative play. For instance, children often talk to themselves when playing imaginative and pretend games. Private speech is related to more creative play - the more frequently children engage in private speech, the more creative, flexible, and original thought they display (Winsler, 2009). We have found that chimpanzees engage in imaginary private signing as well. Chimpanzees create word-play, or transform a sign or its referent to a different meaning, whether it is present or not. An example is placing a wooden block on one's head and referring to it, in sign, as a "hat" (Bodamer et al.,

1994; Jensvold and Fouts, 1993). This is, by far, not the only form of imaginative play chimpanzees engage in.

15. Imagination is a key component of mental representation (the ability to represent an object or concept in one's mind), metacognition (the ability to reflect upon one's own thoughts) and the ability to mentally create other realities. There are several reports of imaginary play in captive chimpanzees (Bodamer et al., 1994; Fouts et al., 1991; Gardner and Gardner, 1969; Hayes, 1952; Jensvold and Fouts, 1993), a captive bonobo (Savage-Rumbaugh and McDonald, 1988), and wild chimpanzees (Goodall, 1986; Hayaki, 1985). Goodall (1986) reported that a 4-year-old wild chimpanzee, Wanda, had been watching her mother, who was perched on a branch above a termite hill, dip a stick into the insects' hole and pull it out loaded with termites. Wanda then picked up a small twig, perched herself on a sapling branch, and poked her stick in a downward direction. A similar instance of imaginary play is very common in human children using cups, saucers, pots, and toy stoves to pretend to prepare and serve a meal as they see their parents do. In these instances a child uses adult tools to go through the motions of a common adult activity, be it children using pots for cooking or chimpanzees using twigs for dipping, these are analogous behaviors. My colleagues and I studied imaginary play in five signing chimpanzees and found strong parallels with that of 2-6 year old human children (Matthews, 1977) including the categories of Animation and Substitution (Jensvold and Fouts, 1993). Animation is pretending that an inanimate object is alive, e.g., talking to a teddy bear, and substitution is pretending an object has a new identity, e.g., placing a block on the head as a hat (Jensvold and Fouts, 1993). Altogether chimpanzees have demonstrated all six different categories of imaginary play found in human children.

16. A very similar behavior to imaginary play is deception; both require behaviors directed toward something that is not there and often involve modeling mental states. There are many instances of deception reported in chimpanzees (Goodall, 1986; de Waal, 2005; Melis et al., 2006; Whiten & Byrne, 1988). Since this is a common behavior and so closely related to imaginary play, it should not be surprising that chimpanzees have been observed in imaginary play.

17. Finally, in addition to imagination, chimpanzees have a sense of humor and are known to laugh under many of the same circumstances humans laugh, e.g., signing a "joke" or funny statement, during play, when tickled, etc. (Davila-Ross, 2009; Hedden et al., 2005). Altogether these findings provide further evidence for cognitive similarities between humans and chimpanzees in the domains of mental representation, intentionality, imagination, and mental state modeling—all fundamental components of autonomy.

  
Mary Lee Jensvold



Sworn to before me  
this \_\_\_\_ day of November, 2013

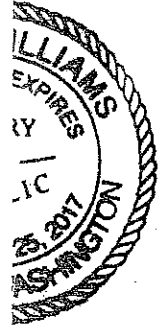
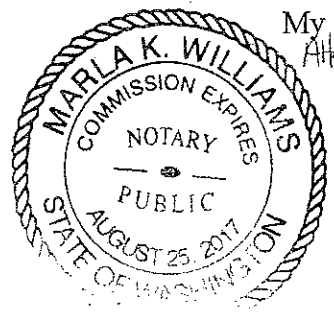
\_\_\_\_\_  
Notary Public

STATE OF Washington )  
COUNTY OF Kittitas ) ss:

On the 21<sup>st</sup> day of November in the year 2013 before me, the undersigned, a notary public in and for said state, personally appeared Mary Lee Jensvold, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual(s) acted, executed the instrument, and that such individual made such appearance before me the undersigned in the County of Kittitas and the State of Washington.

Mariak Williams  
Notary Public

My Commission Expires: 08/25/17  
*Attached to Affidavit*



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STATE OF NEW YORK  
SUPREME COURT, COUNTY OF SUFFOLK

In the Matter of a Proceeding under Article 70 of  
the CPLR for a Writ of Habeas Corpus,

THE NONHUMAN RIGHTS PROJECT, INC.,  
on behalf of HERCULES and LEO,

Petitioners,

v.

SAMUEL L. STANLEY JR., M.D., as President  
of State University of New York at Stony Brook  
a/k/a Stony Brook University and STATE  
UNIVERSITY OF NEW YORK AT STONY  
BROOK a/k/a STONY BROOK UNIVERSITY,

Respondents.

Index No.:

STATE OF WASHINGTON )

COUNTY OF WHATCOM )

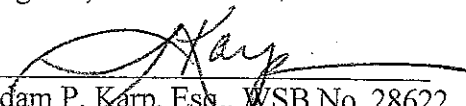
) ss:

1. This Certificate of Conformity is submitted pursuant to New York CPLR 2309(c)  
and New York Real Property Law § 299-a.

2. I am an attorney duly licensed to practice law in the State of Washington.

3. I certify that the Affidavit of Mary Lee Jensvold, signed and dated on Nov. 21,  
2013, was taken in the manner prescribed by the laws of the State of Washington.

Dated: November 24, 2013 in the City of Bellingham, Wash.

  
Adam P. Karp, Esq., WSB No. 28622  
Animal Law Offices of Adam P. Karp  
114 W. Magnolia St., Ste. 425  
Bellingham, Wash. 98225

# **EXHIBIT A**

**Mary Lee Abshire Jensvold, Ph.D.**

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**Vita**

Chimpanzee & Human Communication Institute  
Department of Anthropology  
Central Washington University  
Ellensburg, WA 98926-7573  
Office Phone: (509) 963-2215  
email: jensvold@cwu.edu

**EDUCATION**

Ph.D., Experimental Psychology, 1996, University of Nevada, Reno, NV  
Dissertation: Cross-fostered Chimpanzee Responses to Questions  
M.S., Experimental Psychology, 1989, Central Washington University, Ellensburg, WA  
Thesis: Imaginary Play in Chimpanzees  
B.A., Major: Psychology Minor: Anthropology, 1985, University of Oregon, Eugene, OR

**PROFESSIONAL EXPERIENCE**

Associate Professor 2011-present/Assistant Professor 2008-present.  
Department of Anthropology and Museum Studies, Central Washington University,  
Ellensburg, WA.

Director 2011-2013/Associate Director 2008-2011/Assistant Director 2000-2008.  
Chimpanzee & Human Communication Institute, Central Washington University,  
Ellensburg, WA.

Director 2006-2010.  
Bridges to Baccalaureate: YVCC to CWU Program.

Adjunct Faculty/Research Associate/Lecturer 1993-2008.  
Primate Behavior and Ecology Program, Anthropology & Psychology Departments, Central  
Washington University, Ellensburg, WA.

Chimpanzee Behavior Consultant 1998.  
Fauna Foundation, Chambly, Quebec, Canada.

Coordinator/Principal Investigator 1996-2006.  
Caring for Chimpanzees Earthwatch Program, Chimpanzee & Human Communication  
Institute, Central Washington University, Ellensburg, WA.

Coordinator 1995-2011.  
Summer Apprentice Program, Chimpanzee & Human Communication Institute, Ellensburg,  
WA.  
Coordinate all aspects of the summer program.

Instructor 1993-1997.  
Senior Ventures, Central Washington University, Ellensburg, WA.  
Instruct summer classes at the Chimpanzee & Human Communication Institute.

Instructor 1992-1996.  
Elder Hostel, Central Washington University, Ellensburg, WA.



Instruct 1- and 2-week course at the Chimpanzee & Human Communication Institute.

Instructor 1992.

Extended University Program, Central Washington University, Ellensburg, WA.  
Instruct Psychology of Adolescence at YVCC .

Animal Technician I 1992-2000.

Chimpanzee & Human Communication Institute, Ellensburg, WA.  
Responsible for daily care of chimpanzees, training student interns, operating hydraulics doors.

Graduate Teaching Assistant 1990-1991.

Department of Psychology, University of Nevada, Reno, NV.  
Instruct statistics and research methods laboratory.

Research Assistant 1990-1991.

Sign Language Studies of Chimpanzees, University of Nevada, Reno, NV.  
Laboratory assistant in research on development of cross-fostered chimpanzees.

Biological Technician 1989-1992.

U.S. Forest Service, Cle Elum, WA.  
Spotted owl field surveys.

Research Assistant 1986-1992.

Chimpanzee & Human Communication Institute, Ellensburg, WA.  
Care for chimpanzees and research assistant with signing chimpanzees.

Graduate Teaching Assistant 1986-1989.

Department of Psychology, Central Washington University, Ellensburg, WA.  
Assist with PSY 101 class.

### **CWU AFFILIATIONS**

Department of Anthropology  
Primate Behavior & Ecology  
Graduate Faculty  
Psychology Department

### **COURSES TAUGHT**

#### **Central Washington University**

- ANTH 313 Primate Social Behavior
- ANTH 416/Prim 516 Pongid Behavior
- ANTH/COMM 380 Nonverbal Communication
- ANTH 498 Special Topics: Chimpanzee Culture and Communication
- ANTH 496 Advanced Readings in Nonverbal Behavior
- PRIM 220 Introduction to Primate Laboratory Experience
- PRIM 320 Laboratory Work in Primatology
- PRIM 504 Primate Culture & Cognition
- PSY 101 Introduction to Psychology
- PSY 447 Psychology of Adolescence
- PSY 473 Psychology of Thought and Language

### University of Nevada-Reno

- PSY 210 Introduction to Statistics Laboratory
- PSY 301 Experimental Psychology Laboratory

### PUBLICATIONS

#### Peer Reviewed Journals

- Leeds, C.A. & Jensvold, M.L. (In press.) The communicative functions of five signing chimpanzees (*Pan troglodytes*) Pragmatics & Cognition 21:1.
- McCarthy, M., Jensvold, M.L., & Fouts, D.H. (2012). Use of gesture sequences in captive chimpanzee (*Pan troglodytes*) play. *Animal Cognition*, doi: 10.1007/s10071-012-0587-6
- Leitten, L., Jensvold, M.L., Fouts, R., & Wallin, J. (2012). Contingency in requests of signing chimpanzees (*Pan troglodytes*). *Interaction Studies*, 13, 147-164.
- Campion, T.L., Jensvold, M.L., & Larsen, G. (2011). Use of gesture sequences in free-living chimpanzees (*Pan troglodytes schweinfurthii*) in Gombe National Park, Tanzania. *American Journal of Primatology*, 73(supplement 1), 97.
- Jensvold, M.L., Buckner, J., & Stadtner, G. (2010). Caregiver-chimpanzee interactions with species-specific behaviors. *Interaction Studies. Special Issue of Human-Animal Interactions*, 11, 396-409.
- Jensvold, M.L. (2008). Chimpanzee (*Pan troglodytes*) responses to caregiver use of chimpanzee behaviors. *Zoo Biology*, 27, 345-359.
- Jensvold, M.L. (2007). Promoting positive interactions between chimpanzees (*Pan troglodytes*) and caregivers. *Laboratory Primate Newsletter*, 46, 1-4.
- Jensvold, M.L., Field, A., Cranford, J., Fouts, R.S., & Fouts, D.H. (2005). Incidence of wounding within a group of five signing chimpanzees (*Pan troglodytes*). *Laboratory Primate Newsletter*, 44, 5-7.
- Jensvold, M.L.A., Sanz, C.M., Fouts, R.S., & Fouts, D.H. (2001). The effect of enclosure size and complexity on the behaviors of captive chimpanzees (*Pan troglodytes*). *Journal of Applied Animal Welfare Science*, 4, 53-69.
- Jensvold, M.L.A., & Gardner, R.A. (2000). Interactive use of sign language by cross-fostered chimpanzees. *Journal of Comparative Psychology*, 114, 335-346.
- Jensvold, M.L.A. (2000). A review of Apes, Language, and the Human Mind. *Journal of Sociolinguistics*, 4, 277-281.
- Bodamer, M.D., Fouts, R.S., Fouts, D.H., & Jensvold, M.L.A. (1994). Private signing in chimpanzees. *Human Evolution*, 9, 281-296.
- Jensvold, M.L.A., & Fouts, R.S. (1993). Imaginary play in chimpanzees (*Pan troglodytes*). *Human Evolution*, 8, 217-227.

#### Book Chapters, Abstracts, & Encyclopedia

- Jensvold, M.L., Zager, L., & Bismanovsky, D. (2013). Promoting Nonhuman Animal Welfare: Interactions with Caregivers and Zoo Visitors. *Journal of Applied Animal Welfare Science*, 16, 384-385.
- Jensvold, M.L., Wilding, L., Schulze, S.M. (In press). Signs of Communication in Chimpanzees. G. Witzany (Ed.), *Biocommunication of animals* pp. 7-19). Dordrecht: Springer.
- Jensvold, M.L. (Under review). Experimental Conversations: Sign Language Studies with Chimpanzees. (Eds.) Gontier, N. & Pombo, O. *The evolution of social communication in primates – a multidisciplinary approach*. Springer.
- Jensvold, M.L. (2009). Animals and language. In K. Malmkjaer (Ed.), *Linguistics encyclopedia* (pp. 9-15). Routledge: London.
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- promoting, & sustaining the undergraduate research experience in psychology* (pp. 172-176). Retrieved from the Society for the Teaching of Psychology Web site:  
<http://teachpsych.org/resources/e-books/ur2008/ur2008.php>.
- Jensvold, M.L., & Gardner, R.A. (2007). Conversational use of sign language by cross-fostered chimpanzees. In F.R. Lewis (Ed.), *Focus on non-verbal communication research* (pp. 237-279). Hauppauge, NY: Nova Science Publishers.
- Jensvold, M.L., & Sheeran, L.S. (2006). Ape cognition. In H. J. Birx (Ed.), *Encyclopedia of anthropology* (pp. 207-212). Thousand Oaks, CA: Sage Publications.
- Fouts, R., Jensvold, M.L. & Fouts, D. (2004). Talking chimpanzees. In M. Bekoff (Ed.) *Encyclopedia of animal behavior* (pp. 324-327). Westport, CN: Greenwood Publishing Group.
- Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (2004). Assessment of species typical behaviours in captive chimpanzees. *Animal Welfare*, 13, S245.
- Jaffe, S., Jensvold, M. L., and Fouts, D. (2002) Chimpanzee to Chimpanzee Signed Interactions. In V. Landau (Ed.), *Chimpanzee conference proceedings: The chimpanzee community* (pp. 67-75). Tucson, AZ: ChimpanZoo.
- Fouts, R.S., & Jensvold, M.L.A. (2002). Armchair delusions vs. empirical realities: A neurological model for the continuity of ape and human languaging. In M. Goodman & A.S. Moffat (Eds.), *Probing human origins* (pp. 87-101). American Academy of Arts and Sciences.
- Fouts, R.S. Jensvold, M.L.A., & Fouts, D.H. (2002). Chimpanzee signing: Darwinian realities and Cartesian delusions. In M. Bekoff, C. Allen, & G. Burghardt (Eds.). *The cognitive animal: Empirical and theoretical perspectives in animal cognition* (pp. 285-292). MIT Press.
- Sanz, C.M., & Jensvold, M.L.A. (2001). Chimpanzee. In C. Bell (Ed.), *Encyclopedia of the world's zoos* (pp. 248-253). Chicago: Fitzroy Dearborn.
- Tecot, S., Jensvold, M.L., & Fouts, R. (1999). Evaluation of an enriched physical environment: Space and structure utilization in Pan troglodytes [Abstract]. *American Journal of Physical Anthropology*, 28, 264.
- Jensvold, M.L.A., & Fouts, R.S. (1994). Behavioral changes in chimpanzees following a move to a larger facility [Abstract]. *American Journal of Primatology*, 33, 218.
- Fouts, R.S., Abshire (Jensvold), M.L., Bodamer, M., & Fouts, D.H. (1989). Signs of enrichment: Toward the psychological well-being of chimpanzees. In E.F. Segal (Ed.), *Housing care and psychological wellbeing of captive and laboratory primates* (pp. 376-388). New Jersey: Noyes.

#### Newsletters

- Jensvold, M.L. (Summer, 2012) Chimpanzees in the news: Not always a nice story. *Friends of Washoe*, 33(4), 3-4.
- Larson, G., Campion, T., & Jensvold, M.L. (Spring, 2012). Gesture use by free-living chimpanzees related to partner attentional state. *Friends of Washoe*, 33(3), 7-8.
- Leeds, A. & Jensvold, M.L. (Spring, 2012). The spontaneous and adjacent utterance use of signing chimpanzees. *Friends of Washoe*, 33(3), 9-11.
- Jensvold, M.L. (Fall, 2011). Project Nim highlights heartbreaks of chimpanzees in captivity. *AWI Quarterly*, 6 (4), 24-25.
- Bismanovsky, D. & Jensvold, M.L. (Summer, 2011). Chimpanzee responses to visitors using chimpanzee-friendly behaviors. *Friends of Washoe*, 32(4), 9.
- Larson, G., Jensvold, M.L., Campion, T. (Summer, 2011). Gesture use by free-living chimpanzees related to partner attentional state. *Friends of Washoe*, 32(4), 9-10.
- Davis, A., Leeds, C., Jensvold, M.L., & Fouts, D. (Summer, 2011). Evidence for menstrual synchrony in captive chimpanzees. *Friends of Washoe*, 32(4), 10.

- Bismanovsky, D., Zager, L., Jensvold, J.L. & Fouts, D. (Spring, 2010). Recent patterns of language in an adult chimpanzee using American Sign Language. *Friends of Washoe*, 31(3), 23-25.
- Cole, M., Herigstad, T., & Jensvold, M.L. (Spring, 2010). Daily arousal levels' effect on a chimpanzee's categorical sign usage. *Friends of Washoe*, 31(3), 20-22.
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- McCarthy, M., Brown, H., Gray, A., Lee, K., Steele, R., Jensvold, M.L., Fouts, D., & Reveles, J. (Fall, 2009). Effects of the Chimposium educational program on visitor knowledge and attitudes. *Friends of Washoe*, 31(1), 13-17.
- Jensvold, M.L. (Fall, 2009). Book review of The Wauchula Woods Accord by Charles Siebert. *Animal Welfare Institute Quarterly*, 58(4), 24.
- Metzler, D.K., Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (Spring, 2009). The acquisition of new signs in adult cross-fostered chimpanzees. *Friends of Washoe*, 30(3), 11-13.
- O'Rahilly, K., Leake, M., Potosky, R., Wallin, J.M., Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (Spring, 2009). Vocabulary use of four cross-fostered, signing chimpanzees. *Friends of Washoe*, 30(3), 7-10.
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- Wallin, J.M., Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (Summer, 2008). The recent expressive lexicon of a cross-fostered chimpanzee. *Friends of Washoe*, 29(4), 5-7.
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- Jensvold, M.L., Baeckler, S., Fouts, R.S., & Fouts, D.H. (Fall, 2004). Their own terms: Techniques in humane caregiving of captive chimpanzees. *Friends of Washoe*, 26(1), 14-18.
- Derbawka, M., Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (Winter, 2004). Chimpanzees' use of objects on theme days. *Friends of Washoe*, 25(2), 7-9.

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- Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (Spring, 2003). Assessment of species typical behaviors in captive chimpanzees. *Friends of Washoe*, 24(3), 8-12.
- Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (Fall/Winter, 2002/2003). Caring for chimpanzees: A humane approach. *Friends of Washoe*, 24(1/2), 7-8.
- Jensvold, M.L. (Summer, 2002). The celebration of life. *Friends of Washoe*, 23(4), 3.
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- Martinson, J., Jensvold, M.L., Cohen, N., Pieracci, M., Tata, M.J., & Fouts, R.S. (Fall, 2001). An educational program's effect on attitudes toward chimpanzees. *Friends of Washoe*, 23(1), 12-14.
- Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (Summer, 2001). Species typical use of objects in captive chimpanzees. *Friends of Washoe*, 22(3), 6-9.
- Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (Summer/Fall, 1998). Preliminary report of space use and locomotion in captive chimpanzees. *Friends of Washoe*, 19(3/4), 22-26.
- Sanz, C. & Jensvold, M.L.A. (Summer/Fall, 1997). Chimpanzees' reaction to naïve versus educated visitors. *Friends of Washoe*, 18 (3/4), 9-14.
- Fouts, R.S., Fouts, D.H., Jensvold, M.L.A., & Bodamer, M.D. (Spring, 1994). An enriching approach to captive chimpanzee care. *In Touch*, 1, 1-7.
- Jensvold, M.L.A., & Fouts, R.S. (1993). Imaginary play in chimpanzees (*Pan troglodytes*). *Human evolution*, 8(3), 217-227.
- Abshire (Jensvold), M.L., & Raymond, E. (Summer/Fall, 1991). Imaginary play in deaf children. *Friends of Washoe*, 11/12(3), 8-9.

#### **PROFESSIONAL PRESENTATIONS**

- Carner, A., Sullins, K., Wilding, L., Hendrickson, B., & Jensvold, M.L. (2013, May). Nighttime Enrichment Preferences of Three Captive Chimpanzees (*Pan troglodytes*). Poster presented at Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg WA.
- Keenan, S. & Jensvold, M.L. (2013, May). Sign Dialects in Chimpanzees. Paper presented at Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg WA.
- Mas, J., Carner, A., Sullins, K., Jensvold, M.L., & Zager, L. (2013, May). Exploring Visitor Behavior at a Florida Zoo. Poster presented at Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg WA.
- Schulze, S., Mas, J., Stafford, R., & Jensvold, M.L. (2013, May). Captive Chimpanzee Preference for Environmental Enrichment: Naturalistic Vs. Artificial. Poster presented at Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg WA.
- Keenan, S., & Jensvold, M.L. (2013, March). Sign Dialects in Chimpanzees. Paper presented at the Northwest Anthropological Association Conference, Portland, OR.
- Carner, A., Sullins, K., Wilding, L., Hendrickson, B., & Jensvold, M.L. (2013, March). Nighttime Enrichment Preferences of Three Captive Chimpanzees. Poster presented at presented at the Northwest Anthropological Association Conference, Portland, OR.
- Pritchard, A., Sheeran, L., Jensvold, M.L., Gabriel, K., Li, J., & Wagner, S., (2013, March). Measuring Personality Traits in Provisioned Tibetan Macaques (*Macaca thibetana*), Mt. Huangshan, China. Poster presented at presented at the Northwest Anthropological Association Conference, Portland, OR.

- Schulze, S., Mas, J., Stafford, R., & Jensvold, M.L. (2013, March). Captive Chimpanzee Preference for Environmental Enrichment: Naturalistic vs. Artificial. Poster presented at presented at the Northwest Anthropological Association Conference, Portland, OR.
- Keenan, S., & Jensvold, M.L. (2012, May). Using Type-Token Ratio as Measurement for Lexical Diversity in Chimpanzees. Paper presented at Paper presented at Symposium on University Research and Creative Expression, Central Washington University, Ellensburg, WA.
- Keenan, S., & Jensvold, M.L. (2012, April). Using Type-Token Ratio as Measurement for Lexical Diversity in Chimpanzees. Paper presented at Rocky Mt. Psychological Association, Reno, NV.
- Larsen, G., Campion, T., & Jensvold, M.L. (2012, April). Gesture Use by Free-living Chimpanzees (*Pan troglodytes*) Related to Partner Attentional State. Poster presented at Rocky Mt. Psychological Association, Reno, NV.
- Leeds, C. & Jensvold, M.L. (2012, April). Spontaneous and Adjacent Utterances in Chimpanzee Conversations. Poster presented at Rocky Mt. Psychological Association, Reno, NV.
- Mas, J., Pritchard, A., Jensvold, M.L., & Zager, L. (2012, April). The Effect of Signage on Zoo Visitors at a Chimpanzee (*Pan troglodytes*) Exhibit. Poster presented at Rocky Mt. Psychological Association, Reno, NV.
- Jensvold, M.L., Zager, L., & Bismanovsky, D. (2011, August). Promoting Animal Welfare: Interactions with Caregivers and Zoo Visitors. Paper presented at From Good Care to Great Welfare: Advancing Zoo Animal Welfare Science and Policy Symposium. Detroit, MI.
- Bismanovsky, D. & Jensvold, M.L. (2011, May). Chimpanzee Responses to Visitors Using Chimpanzee-Friendly Behaviors. Paper presented at Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg, WA.
- Davis, A., Leeds, C.A., Jensvold, M.L., & Fouts, D. (2011, May) Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg, WA.
- Larsen, G., Jensvold, M.L., & Campion, T. (2011, May). Gesture Use by Free-Living Chimpanzees (*Pan troglodytes*). Poster presented at Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg, WA.
- Reveles, J. & Jensvold, M.L. (2011, May). Visitor Opinion in Artificial vs. Natural Enrichment Conditions. Poster presented at Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg, WA.
- Leeds, C.A., Davis, A., Jensvold, M.L., & Fouts, D. (2011, March). Evidence for Menstrual Synchrony in Captive Chimpanzees. Poster presented at the Northwest Anthropological Association, Moscow ID.
- Zager, L. & Jensvold, M.L. (2011, March). Encouraging Friendly Chimpanzee Behaviors. Paper presented at the Northwest Anthropological Association, Moscow ID.
- Jensvold, M.L., Stadtner, G., & Buckner, J. (2010, June). Measuring the Quality of Interactions Between Caregivers and Chimpanzees. Poster presented at Science in the Service of Animal Welfare, Universities Federation of Animal Welfare, York, UK.
- Metzler, D., Jensvold, M.L., Fouts, D., & Fouts, R. (2010, May). Vocabulary Growth in Adult Cross-Fostered Chimpanzees. Paper presented at the Symposium on Undergraduate Research and Creative Expression, Central Washington University, Ellensburg, WA.
- Jensvold, M.L. (2010, April). Interactive use of sign language by cross-fostered chimpanzees. Paper presentation at Sign Language Studies of Cross-Fostered Chimpanzees: Ongoing Inquiry Symposium. University of Nevada-Reno, NV.
- Bismanovsky, D., Zager, L., & Jensvold M.L. (2010, March). Recent Patterns of Conversation in an Adult Chimpanzee Using American Sign Language. Paper presented at the Northwest Anthropological Association, Ellensburg, WA.

- Cole, M., Herigstad, T., & Jensvold, M.L. (2010, March). Daily Arousal Level's Effect on a Chimpanzee's Categorical Sign Usage. Paper presented at the Northwest Anthropological Association, Ellensburg, WA.
- Gibbons, J., Leake, M., Potosky, R., & Jensvold, M.L. (2010, March). Use of Holiday Related Signs by a Cross-Fostered Chimpanzee. Paper presented at the Northwest Anthropological Association, Ellensburg, WA.
- Metzler, D., Jensvold, M.L., Fouts, D., & Fouts R. (2010, March). Vocabulary Growth in Adult Cross-Fostered Chimpanzees. Paper presented at the Northwest Anthropological Association, Ellensburg, WA.
- Reveles, J., & Jensvold, M.L. (2010, March). Visitor Knowledge Gains in a New Educational Workshop: The Chimposium. Poster presented at the Northwest Anthropological Association, Ellensburg, WA.
- Jensvold, M.L., Buckner, J., & Stadtner. (2009, September). Caregiver-Chimpanzee Interactions with Species-Specific Behaviors. Paper presented at the joint conference of the International Congress of Zookeepers and American Association of Zookeepers, Seattle, WA.
- McCarthy, M., Brown, H., Gray, A., Lee, K., Steele, R., Jensvold, M.L., & Fouts, D. (2009, May). The Effects of the Chimposium Educational Program on Visitor Knowledge and Attitudes. Paper presented at the Symposium on University Research and Creative Expression, Ellensburg, WA.
- Leeds, C.A., McCarthy, M., Bismanovsky, D., Denton, T., Jensvold, M.L., & Fouts, D. (2009, May). Social Structure in Three Captive Chimpanzees. Poster presented at the Symposium on University Research and Creative Expression, Ellensburg, WA.
- Metzler, D., Jensvold, M.L., Fouts, R., & Fouts, D. (2009, May). The Acquisition of New Signs in Adult Cross-Fostered Chimpanzees. Poster presented at the Symposium on University Research and Creative Expression, Ellensburg, WA.
- O'Rahilly, K., Leake, M., Potosky, R., Wallin, J., Jensvold, M.L., Fouts, D., & Fouts, R. (2009, May). Vocabulary Use of Four Cross-Fostered Signing Chimpanzees. Poster presented at the Symposium on University Research and Creative Expression, Ellensburg, WA.
- Metzler, D.K., Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (2009, April). The Acquisition of New Signs in Adult Cross-Fostered Chimpanzees. Poster presented at the Northwest Anthropological Conference, Newport, OR.
- O'Rahilly, K., Leake, M., Potosky, R., Wallin, J., Jensvold, M.L., Fouts, D., & Fouts, R. (2009, April). Vocabulary Use of Four Cross-Fostered Signing Chimpanzees. Poster presented at the Northwest Anthropological Conference, Newport, OR.
- Rasmussen, C.L., & Jensvold, M.L. (2009, April). Contra Lateral Pointing in Cross-Fostered Chimpanzees. Poster presented at the Northwest Anthropological Conference, Newport, OR.
- Rasmussen, C.L., & Jensvold, M.L. (2008, November). Contra Lateral Pointing in Cross-Fostered Chimpanzees. Poster presented at the Annual Biomedical Research Conference for Minority Students, Orlando, FL.
- Jensvold, M.L. (2008, April). The effects of species-specific behaviors in captive chimpanzees. Paper presented at the Rocky Mountain Psychological Association, Boise, ID.
- Rasmussen, C., Jensvold, M.L., Fouts, R.S., Fouts, D.H., & Wallin, J. (2008, April). Signs of cultural transmission in a chimpanzee. Poster presented at the Rocky Mountain Psychological Association, Boise, ID.
- Wallin, J. M., Jensvold, M. L., Fouts, R. S., & Fouts, D. H. (2008, April). The recent expressive lexicon of a cross-fostered chimpanzee. Poster presented at the 2008 Rocky Mountain Psychological Association, Boise, ID.
- Jensvold, M.L. (2007, October). Caregiver's use of chimpanzee behaviors promotes positive interactions. Paper presented at the American Association of Zookeepers, Galveston, TX.

- Jensvold, M.L. (2007, October). Conversational repair in cross-fostered chimpanzees. Paper presented at the Semiotic Society Association, New Orleans, LA.
- Halberg, R., Jensvold, M.L., & Sheeran, L. (2007, May). Laughter, number of play partners, age and play bout duration in captive chimpanzees (*Pan troglodytes*) in an African sanctuary. Poster presented at the Symposium for University Research and Creative Expression, Ellensburg, WA.
- Jensvold, M.L. (2007, May). Use of species-specific behaviors in chimpanzee/caregiver interactions. Paper presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.
- McCarthy M.S., Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (2007, May). Use of gesture sequences in captive chimpanzee play. Paper presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.
- Wallin, J. M., Jensvold, M. L., & Sheeran, L. K. (2007, May). Play, laughter, and humor in captive chimpanzees (*Pan troglodytes*). Paper presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.
- Marburg, T.L., Jensvold, M.L., Fouts, R., & Fouts, D. (2007, April). Comparison of intragroup greeting and reassurance behaviors across four chimpanzee (*Pan troglodytes*) social groups in American and African sanctuaries. Paper presented at the Northeast Anthropological Association, New York.
- Hartel J.A., Jensvold M.L., Fouts R.S., & Fouts D.H. (2007, March). Signing chimpanzees' (*Pan troglodytes*) interactions with familiar and unfamiliar signers and nonsigners. Poster presented at The Mind of the Chimpanzee Conference, Chicago, IL.
- McCarthy M.S., Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (2007, March). Use of gesture sequences in captive chimpanzee play. Paper presented at the Rocky Mountain Psychological Association, Denver, CO.
- Wallin, J., Jensvold, M.L. & Sheeran, L. (2006, October). Chimpanzee play, laughter and humor. Poster presented at the Murdock Charitable Trust Annual Regional Undergraduate Research Conference. Portland, OR.
- McCarthy, M., Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (2006, May). Space use in captive chimpanzees. Paper presented at CWU Symposium on University Research and Creative Expression, Ellensburg, WA.
- Jensvold, M.L., Sheeran, L., Halberg, R. & Keyser, J. (2006, May). Laughter, number of play partners, and play bout duration in captive chimpanzees (*Pan troglodytes*). Paper presented at CWU Symposium on University Research and Creative Expression, Ellensburg, WA.
- McCarthy, M., Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (2006, April). Space use in captive chimpanzees. Paper presented at the Rocky Mt. Psychological Association Conference, Park City, UT.
- Puffer, A. M., Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (2006, April). Weather influences chimpanzees' choice to go outside. Paper presented at the Rocky Mt. Psychological Association Conference, Park City, UT.
- Shiau, S. J., & Jensvold, M.L. (2006, April). Chimpanzee use of modulation in response to questions. Paper presented at the Rocky Mt. Psychological Association Conference, Park City, UT.
- Jensvold, M.L., Sheeran, L.S., Halberg, R.H., & Keyser, J. (2006, March). Laughter, number of play partners, and play bout duration in captive chimpanzees (*Pan troglodytes*). Paper presented at the Northwest Anthropological Conference, Seattle, WA.
- Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (2005, November). Caring for chimpanzees. Poster presented at the annual Earthwatch Conference, Cambridge, MA.
- Jensvold, M.L., Baeckler, S.A., Fouts, R.S., & Fouts, D.H. (2004, October). Their own terms: Techniques in humane caregiving of captive chimpanzees. Poster presented at the International Society of Anthrozoology, Glasgow, Scotland, UK.



- Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (2004, April). Environmental enrichment with objects and caregivers for captive chimpanzees. Paper presented at the Rocky Mt. Psychological Association, Reno, NV.
- Hartel, J., Jensvold, M.L., Bowman, H., Fouts, R., & Fouts, D. (2004, April). The effect of foraging on the activity budgets of four captive chimpanzees. Poster presented at the Rocky Mt. Psychological Association, Reno, NV.
- Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (2003, April). Assessment of species typical behaviours in captive chimpanzees. Poster presented at Science in the Service of Animal Welfare, Universities Federation of Animal Welfare Symposium, Edinburgh, Scotland, UK.
- Derbawka, M., Jensvold, M.L., Fouts, R., & Fouts, D. (2003, May). Chimpanzees' use of objects on theme days. Poster presented at Source Undergraduate Conference, Ellensburg, WA.
- Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (2002, November). Caring for chimpanzees. Poster presented at the annual Earthwatch Conference, Cambridge, MA.
- Jensvold, M.L. (2002, May). Interactive use of sign language by cross-fostered chimpanzees. Paper presented at the First Conference of Faculty and Graduate Students Research on Scholarly Achievements, Ellensburg, WA.
- Bowman, H., Jensvold, M.L., Fouts, D.H., & Fouts, R.S. (2002, May). Species typical use of objects in captive chimpanzees. Paper presented at the First Conference of Faculty and Graduate Students Research on Scholarly Achievements, Ellensburg, WA.
- Cohen, N., Martinson, J., Pieracci, M., Tata, M.J., Jensvold, M.L., & Fouts, R. (2001, September). The effect of an educational program on attitudes toward chimpanzees. Poster presented at the Chimpanzee Conference, Portland, OR.
- Hayashida, C., Grandia, A., Blake, S., Eburn, C., Jung, C., Parker, S., Jensvold, M.L., & Fouts, R. (2001, September). A social hierarchy of five chimpanzees. Poster presented at the Chimpanzee Conference, Portland, OR.
- Jaffe, S., Jensvold, M.L., & Fouts, D. (2001, September). Chimpanzee to chimpanzee signed interactions. Poster presented at the Chimpanzee Conference, Portland, OR.
- Fouts, R.S., & Jensvold, M.L. (2001, July). Armchair delusions v. empirical realities: A neurological model for the continuity of ape and human languaging. Paper presented at the American Academy of Arts and Sciences, Cambridge, MA.
- Jensvold, M.L.A., Fouts, R.S., & Fouts, D.H. (2001, April). Novelty, plurality, and species typical behaviors: Their role in object enrichment in captive chimpanzees. Paper presented at the Rocky Mountain Psychological Association, Reno, NV.
- Jensvold, M.L.A. (2000, June). Cross-fostered chimpanzee conversational responses in signed interactions with humans. Poster presented at American Psychological Association, Miami, FL.
- Jensvold, M.L.A. (1999, April). Discussant for Ethological Studies of Captive Chimpanzees. Symposium at the Rocky Mountain Psychological Association, Ft. Collins, CO.
- Jensvold, M.L.A., Fouts, R.S., Hood, J.H., Fouts, D.H., & Waters, G. (1999, June). Development of phrases in a signing chimpanzee. Paper presented at the Human Behavior and Evolution Society, Salt Lake City, UT.
- Martin, A., Jensvold, M.L., Fouts, R.S., & Fouts, D.H. (1999, October). Behavioral changes in captive chimpanzees between two facilities. Paper presented at the Chimpanzee Conference, Manhattan, KS.
- Sanz, C.M., Fouts, D.H., Jensvold, M.L.A., & Fouts, R.S. (1999, April). Space use and locomotion behavior of five socially housed chimpanzees. Symposium conducted at the Rocky Mountain Psychological Association, Ft. Collins, CO.
- Waters, G.S., McDowell, R.R., Jensvold, M.L., Fouts, R.S., & Fouts, D. (1999, October). Captive chimpanzee (*Pan troglodytes*) object enrichment: The effect of item novelty, category, and amount. Paper presented at the Chimpanzee Conference, Manhattan, KS.

- Fouts, R.S., Fouts, D.H., & Jensvold, M.L.A. (1998, October). Space use and locomotion behaviors in chimpanzees. Poster presented at the Earthwatch Conference, Cambridge, MA.
- Fouts, R.S., Fouts, D.H., & Jensvold, M.L.A. (1998, October). Caring for chimpanzees. Paper presented at the Earthwatch Conference, Cambridge, MA.
- Sanz, C., King, B., Jensvold, M.L.A., Fouts, R., & Fouts, D. (1998, October). Human aesthetics versus chimpanzee needs. Poster presented at Chimpanzoo Conference, Los Angeles, CA.
- Jensvold, M.L.A. (1997, April). Chimpanzee's responses to question series. Symposium conducted at Northwest Anthropological Association Conference, Ellensburg, WA.
- Sanz, C.M., & Jensvold, M. L. A. (1997, April). Chimpanzees' reaction to naive and educated visitors. Symposium conducted at Northwest Anthropological Association Conference, Ellensburg, WA.
- Sanz, C.M., & Jensvold, M.L.A. (1997, May). Chimpanzees' reaction to naive and educated visitors. Paper presented at Undergraduate Research Symposium, Ellensburg, WA.
- Jensvold, M.L.A. (1996, April). Chimpanzee responses to question series. Symposium conducted at the Rocky Mountain Psychological Association, Park City, UT.
- Jensvold, M.L.A., & Fouts, R.S. (1994). Behavioral changes in chimpanzees following a move to a larger facility. Paper presented at the American Society of Primatologists, Seattle, WA.
- Fouts, R.S., Fouts, D.H., Bodamer, M., Jensvold, M.L.A., Shaw, H., Radeke, M., & Simpson, D. (1993, July). Novel enrichment ideas for five socially housed chimpanzees. Poster presented at the First Annual Environmental Enrichment Conference, Portland, OR.
- Fouts, R.S., Glenn, J., Jensvold, M.L.A., & Krause, M. (1993, July). A standard operating procedure for chimpanzee enrichment. Poster presented at the First Annual Environmental Enrichment Conference, Portland, OR.
- Jensvold, M.L.A., Fouts, R.S., & Radeke, M. (1993, July). Environmental enrichment and species typical behaviors in captive chimpanzees. Poster presented at the First Annual Environmental Enrichment Conference, Portland, OR.
- Jensvold, M.L.A., Kowalski, A., Radeke, M., & Fouts, R.S. (1993, April). Activity budgets of five socially housed chimpanzees. Poster presented at the Joint Conference of Western and Rocky Mountain Psychological Association, Phoenix, AZ.
- Abshire (Jensvold), M.L. (1991, April). Imaginary play in deaf children. Paper presented at the Western Psychological Association, Los Angeles, CA.
- Fouts, R.S., Fouts, D.H., Abshire (Jensvold), M.L., & Bodamer, M. (1991, December). Private signing and imagination. Paper presented at Understanding Chimpanzees, Chicago Academy of Science, Chicago, IL.
- Abshire (Jensvold), M.L. (1989, April). New directions in chimpanzee sign language research. Symposium conducted at the Western Psychological Association, Reno, NV.

#### **INVITED ADDRESS**

- Jensvold, M.L. (2012, September). Experimental Conversations: Sign Language Studies with Chimpanzees. Plenary Speaker at From Grooming to Speaking: Recent trends in Social Primatology and Human Ethology. Centre for Philosophy of Science of the University of Lisbon. International Colloquium September 10-12, 2012.
- Jensvold, M.L. (2011, April). Keynote Address: The Ethological Roots of Language Acquisition. Washington Association of Foreign Language Teachers. Ellensburg, WA.
- Jensvold, M.L. (2011, April). Drawings, Imaginary Play, and Private Signing in Chimpanzees. Central Washington University, Primate Awareness Week.
- Jensvold, M.L. (2010, September). Conversations With Chimpanzees: Transforming our View of Nature. Florida Gulf Coast University, Ft. Myers.
- Jensvold, M.L. (2010, April). Improving Captive Care: Taking Them on Their Own Terms. Primate Awareness Week. Central Washington University, Ellensburg, WA.

- Jensvold, M.L. (2010, April). Interactive Use of Sign Language by Cross-Fostered Chimpanzees. Symposium on Sign Language Studies of Cross-Fostered Chimpanzee: Ongoing Inquiry. University of Nevada-Reno, NV.
- Jensvold, M.L. (2010, February). Conversations with Chimpanzees: Only in Ellensburg. Ellensburg Rotary Club, Ellensburg, WA.
- Jensvold, M.L. (2008, November). Conversations with Chimpanzees: Transforming our View of Nature. St. Johns Episcopal Church, Tallahassee, FL.
- Jensvold, M.L. (2007, April). Caring for chimpanzees on their own terms: Research with signing and zoo chimpanzees. University of West Florida, Pensacola.
- Jensvold, M.L. (2003, March). Chimpanzees and sign language. Oakland Zoo, Oakland, CA.
- Jensvold, M.L. (2003, March). The roots of early language development. Head Start/ECEAP Child Development/Mental Health/Family Support Interdisciplinary Conference, Central Washington University, Ellensburg, WA
- Jensvold, M.L. (2001, May). Caring for chimpanzees. Wenatchee Valley Community College, Wenatchee, WA.
- Jensvold, M.L.A. (1999, April). Aspects of signing in chimpanzees: Studies inspired by Beatrix Gardner. Invited address at the Rocky Mountain Psychological Association, Ft. Collins, CO.

#### MEDIA COVERAGE

- Great Apes Great Dilemma. Jane Gargas, *Yakima Herald*, April 7, 2013.
- Planning a Future of CWU's Chimps. Andy Matarrese, *Daily Record*, April 13-14, 2013.
- CWU Facing Decision on Chimps: Add More or Move. *The Bellingham Herald*. April 15, 2013.
- Chimp Researchers Cheer Proposed NIH Changes. *Yakima Herald Republic*. February 6, 2013.
- In Loving Memory of Dar. KIMA, Yakima. December 10, 2012.
- Mourning the Loss Dar, The Chimp Who Touched Many Lives. KNDO Yakima. December 9, 2012.
- Chimpanzee Leaves Legacy. Andy Matarrese, *Daily Record*, December 10, 2012.
- Chimp Leaves a Legacy of Lessons for Humans. Jerry Large, *Seattle Times*, November 28, 2012.
- Chimp Died of Cardiac Failure. Justin Pittman. *The Daily Record*. November 28, 2012.
- Central Washington University Hopes to Replace Dead Chimps. Tom Bonse, KPLU, November 27, 2012.
- Dar, the Signing Chimpanzee, Dies Suddenly; "Hurt" Not Among Last Words. Nina Shapiro. *Seattle Weekly*. November 27, 2012.
- Chimp Who Knew Sign Language Dies at 36. *UPI.com*. November 26, 2012.
- CWU Chimp, Dar, Dies at Age 36. Justin Pittman, *Daily Record*, November 26, 2012.
- Chimpanzee at CWU Dies. *San Francisco Chronicle*. November 25, 2012.
- Chimpanzee at CWU Dies. KHQ, Spokane, November 25, 2012.
- Chimpanzee at CWU Dies. *East Oregonian*. November 25, 2012.
- Chimpanzee at CWU Dies. *Tri-City Herald*. November 25, 2012.
- Chimpanzee at CWU Dies. *Seattle Times*. November 25, 2012.
- Central Washington University Chimp Who Learned Sign Language Dies. NWCN/ KING5.com Seattle. November 25, 2012.
- Chimpanzee Who Used Sign Language Dies in Ellensburg. KOMO News. November 25, 2012.
- CWU Chimpanzee Who Learned American Sign Language Dies at 36. *The Inquisitr.com*. November 25, 2012.
- Introducing Humans to Chimps. Jane Gargas, *Tri-City Herald*. October 13, 2012.
- Learning Their Language. Jane Gargas, *Yakima Herald Republic*. October 7, 2012.
- Ellensburg honors its famous chimpanzee. KNDO, Yakima, September 22, 2012.

- Ellensburg Park, Chimp Sculpture to Honor Washoe. *Yakima Herald-Republic*. September 20, 2012.
- New Park Honors Washoe. *Ellensburg Daily Record*. September 21, 2012.
- Claims of Octogenarian Chimp Prompts Questions. *CNN*, December 30, 2011.  
<http://www.cnn.com/2011/12/29/showbiz/florida-tarzan-chimp/index.html>
- Harmful Chimpanzee Research Not Worth the Pain. *Wired.com*, December 15, 2011.
- Apemania and Project Nim. *Pasadena Art Beat*, July 12, 2011.  
<http://pasadenaartbeat.wordpress.com/2011/07/15/apemania-and-project-nim/>.
- Watching For Signs. *Pasadena Weekly*, July 14, 2011.  
[http://www.pasadenaweekly.com/cms/story/detail/watching\\_for\\_signs/10329/](http://www.pasadenaweekly.com/cms/story/detail/watching_for_signs/10329/)
- Into the Sunset: Couple Who Brought Chimps to CWU Retires. *Ellensburg Daily Record*, June 21, 2011.
- Longtime Chimpanzee Research Team Retires. *Yakima Herald-Republic*, June 26, 2011.
- Life of the chimpanzees. *The Observer*, January 20-26, 2011.
- Animal Intelligence: Do Animals Think? *Congressional Quarterly Researcher*, October 22, 2010, 20 (37), 869-892.
- Chimps Adjust to Life After Washoe, *Ellensburg Daily Record*, September 18, 2010.
- Woman Who Chats with Chimps in Sign Language to Appear Here, *Eagle News*, September 15, 2010.
- WCGU-FM (an NPR affiliate), Ft. Myers, FL. Gulf Coast Live "Teaching Chimps to Sign"  
Aired September 10, 2010.
- KCWU TV, Ellensburg, WA. Interview on Robert Lowery's "Conversations" program. Spring 2010.
- WCOA AM Radio, Pensacola, FL. Interview on Taris Savel's "Conversations on the Go"  
program. Aired July 11 & 12, 2009.

#### **GRANTWRITING AND EXTRAMURAL FUNDING DEVELOPMENT**

2013. Bohnett Foundation, Chimpanzee Caregiver. \$30,000. Funded.
2013. Promoting 2013 Chimposium. City of Ellensburg. Funded.
2013. Promoting 2013 Chimposiums. Kittitas County. \$2,000. Funded
2012. NEAVES. Operational support. To Friends of Washoe. \$5,000.
2012. Winley Foundation/Friends of Washoe. Chimpanzee Caregiver. \$45,000. Funded.
2012. National Endowment of the Humanities. CWU/CHCI Archiving Project. \$32,000.  
Pending.
2012. Promoting 2012 Chimposiums. City of Ellensburg. \$8,463. Funded.
2012. Promoting 2012 Chimposiums. Kittitas County. \$2,000. Funded.
2012. Chimpanzee Caregiver Fall 2012 Graduate Assistant. Friends of Washoe \$3,277. Funded.
2012. Chimpanzee Caregiver Maternity Relief Request, Friends of Washoe \$3,232. Funded.
2012. Chimpanzee Caregiver Request, Friends of Washoe (Bohnett), \$43,780.
2011. City of Ellensburg Lodging Tax, Chimposium Advertising, \$7,543. Funded.
2011. Kittitas County Lodging Tax, Chimposium Advertising. \$2,000. Funded.
2011. Lounsbury Foundation. Data Inventory, Preservation, and Access Project. \$60,022.  
Funded.
2011. Friends of Washoe. Full-Time Chimpanzee Caregiver. \$30,000. Funded.
2010. Hugh & Jane Ferguson Foundation, Outreach Coordinator to FOW, \$7,500, Funded.
2010. CWU College of the Sciences Faculty Summer Research Grant. \$3,000, Funded.
2010. Friends of Washoe. Half-time Position Chimpanzee Caregiver, \$17,000, Funded.
2010. Friends of Washoe. Full-Time Chimpanzee Caregiver, \$35,000, Funded.
2010. Lush, amount unspecified. Pending.
2010. The Brinson Foundation. Chimposium Improvement Project, \$5,000. Rejected.
- 2006-09. Bridges to Baccalaureate, National Institute of Health, Director, \$253,631, Funded.

2009. CWU Technology Grant. Rejected.  
2009. Len-Thayer, Central Washington University, Partial funding for caregiver position, \$5000. Rejected.  
2009. Co-PI with Lori Sheeran. SOAR, CWU. Rejected.  
2008. Visitor Effect in Zoo-Living Chimpanzees. Animal Refinement Award, Animal Welfare Institute, PI, \$10,000, Funded.  
2006. Caregiver Interactions with Chimpanzees, Animal Welfare Institute Refinement Award. PI \$6,000, Funded.  
2006. Caring for Chimpanzees. Earthwatch. Co-PI. \$13,410, Funded.  
2005. Caring for Chimpanzees. Earthwatch. Co-PI. \$87,990, Funded.  
2005. Central Washington University Research Equipment Grant. \$3,310, Funded.  
2005. Laughter in Chimpanzees (Pan troglodytes) Function and Evolutionary Significance. Central Washington University Faculty Seed Grant, Co-PI, \$1,935, Funded.  
2005. Interdisciplinary Continuity of the Arts & Sciences, Co-PI, 68,564, Rejected.  
2004. Caring for Chimpanzees. Earthwatch. Co-PI. \$50,075, Funded.  
2004. Conversational Responses of Chimpanzees, American Association of University Women, PI, \$30,000, Rejected.  
2004. Conversational Competence in Signing Chimpanzees, NSF, PI, \$188,410, Rejected.  
2003. Caring for Chimpanzees. Earthwatch. Co-PI. \$71,400, Funded.  
2002. Caring for Chimpanzees Earthwatch, Co-PI, \$91,200, Funded.  
2002 Len Thayer Small Grant, "Workshop on Humane Techniques in Caring for Chimpanzees". \$2,000, Rejected.  
2002. AALAS Foundation, "Workshop in Enriching Care for Chimpanzees". \$7,965.00, Rejected.  
2001. Caring for Chimpanzees. Earthwatch. Co-PI. \$97,200, Funded.  
2001. Lounsbury Foundation, \$40,000, Funded.  
2000. Caring for Chimpanzees. Earthwatch. Co-PI. \$100,800, Funded.  
1999. Lounsbury Foundation, \$85,000, Funded.  
1999. Caring for Chimpanzees. Earthwatch, Co-PI. \$91,200, Funded.  
1998. Caring for Chimpanzees. Earthwatch. Co-PI. \$96,000, Funded.  
1998. Central Washington University Foundation Grant. \$2,500, Funded.  
1996. Liasoned with a private donor. \$25,000, Funded.  
1993. Anonymous private matching grant. \$3,000, Funded.  
1993. Proctor & Gamble matching grant. \$9,000, Funded.

#### **PROFESSIONAL SERVICE**

- 2008-2010 Faculty Affiliate, Museum of Culture & Environment, Central Washington University. Ellensburg, WA  
2007-present. Member, Board of Directors, Animal Welfare Institute, Washington, DC.  
2007. McNair, Advisory Board, Central Washington University, Ellensburg, WA.  
2007. Chairperson, Chimpanzee Care Committee, Chimpanzee Sanctuary Northwest, Cle Elum, WA  
2003-2007. Member, Board of Directors, Chimpanzee Sanctuary Northwest, Cle Elum, WA  
1999-present. Member, Advisory Board, Fauna Foundation, Chambly, Quebec, Canada  
1999-present. Member, Board of Directors, Friends of Washoe, Ellensburg, WA  
1997-2000. Member, Scientific Advisory Board, National Chimpanzee Sanctuary

#### **COMMUNITY SERVICE**

- 2008-2009 4H Leader, Kittitas County Extension, Ellensburg, WA  
2005-2006. Member, Board of Directors, Friends of the Roslyn Library, Roslyn, WA  
2003-2005 Member, Roslyn Historic and Preservation Commission, Roslyn, WA

- 2005-2008 Speaker, Expanding Your Horizons. A hands-on exploration of careers for women in math, science, and technology for 5<sup>th</sup> through 9<sup>th</sup> grade girls.  
Periodically Speaker, Roslyn Library Armchair Traveler Speaker Series.

### PROFESSIONAL MEMBERSHIP

Sigma Xi  
Phi Kappa Phi  
International Society for Anthrozoology  
Rocky Mountain Psychological Association

### STUDENT MENTORSHIPS

#### **Masters Thesis Committee Chair:**

- Davis, Amanda, Effects of Conversational Partner Familiarity in Deaf Humans (*Homo sapiens*), July, 2012.  
Leeds, Charles Austin, The Communicative Function of Five Signing Chimpanzees (*Pan troglodytes*), June, 2012.  
Sorenson, Hilaree, Environmental Enrichment for Captive Chacma Baboons (*Papio ursinus*) at the Centre for Animal Rehabilitation & Education (CARE), June, 2012.  
Campion, Tracy, Use of Gesture Sequences in Free-Living Chimpanzee (*Pan troglodytes schweinfurthii*) Play in Gombe National Park, Tanzania, March, 2012.  
Bismanovsky, Daniella, Chimpanzee (*Pan troglodytes*) Responses to Visitors Using Chimpanzee-Friendly Behaviors, October, 2011.  
Leake, Madeleine, Topic Maintenance in Chimpanzee's Conversations. June, 2011.  
Zager, Lindsay, Visitor Effect in Zoo-Living Chimpanzees. June, 2011.  
Metzler, Deborah, Vocabulary Growth in Adult Cross-Fostered Chimpanzees. March, 2011.  
Robin Potosky, Use of Modulation in Response to Requests for Clarification in Chimpanzees. July, 2010.  
Stadtner, Gina. The Effect of Reciprocal Chimpanzee (*Pan troglodytes*) Behavior by Caregivers. December, 2009.  
Buckner, Jacquelyne. The Behavioral Effects of the Use of Chimpanzee-Specific (*Pan troglodytes*) Behaviors and Vocalizations by Human Caregivers. November, 2009.  
Martinsen, Jessica. Sorting Chimpanzee Drawings Based on Similarity of Form. November, 2007.  
Marburg, Trijntje. A Comparison of Intragroup Greeting and Reassurance Behaviors Across Chimpanzee (*Pan troglodytes*) Social Groups in American and African Sanctuaries. June, 2007.  
McCarthy, Maureen. Use of Gesture Sequences in Captive Chimpanzee (*Pan troglodytes*) Play. May, 2007.  
Keyser, Jennifer. Communicative Role of Play Behaviors in Captive Chimpanzee Play. March, 2007.  
Gallucci, Julia. Chimpanzee Threat Gestures: Community-Level Differences. November, 2006.  
Shiau, Jen-shiuan. Chimpanzee Use of Modulation in Response to Question. November, 2005.  
Hartel, Jessica. Effects of Familiarity and Use of American Sign Language (ASL) on Chimpanzee (*Pan troglodytes*) Conversational Behavior. November, 2005.  
Egan, Tennyson. Chimpanzees Exhibit Imaginary Play. July, 2005.

#### **Masters Thesis Committee Member:**

- Heggs, Laura, The Influence of a Novel Outdoor Environment on the Behavior of Captive Chimpanzees (*Pan troglodytes*) in a Sanctuary Setting, July, 2012.  
Enlow, Grace. Vocalizations and Pair-Bonding Behaviors in Bornean White-Bearded Gibbon in Sabangau National Park, Indonesia. July, 2010.

- Tierney, Deborah. Communicative Competence in Four Captive Chimpanzees as Indicated by Responses to Questions Versus Statements. June, 2005.
- Reider, Shannon. Community Level Differences in the Use of Grooming Gestures. June, 2004.
- Bowman, Holly. Interactions Between Chimpanzees and Their Human Caregivers in Captive Settings: The Effects of Gestural Communication on Reciprocity. May, 2003.
- Sloan, Anna. Bilingual Conversations in Chimpanzees. May, 2002.
- Caparaso, Kimberly. Behaviors used in chimpanzee to chimpanzee sign initiated interactions. March 2002.
- Daspit, Lesley. Folkecology of Bofi Farmers and Foragers: Values, Knowledge and Information Pathways. May, 2001.
- Waters, Gabriel. Sympathetic Mouth Movements Accompanying Fine Motor Movements in Five Captive Chimpanzees. July, 2000.
- King, Bonita. The Effect of Familiarity on Social Interactions Between Captive Chimpanzees (*Pan troglodytes*) and Humans (*Homo sapiens*). August, 1999.
- Sanz, Crickette. Fecal Testosterone and Corticosterone Levels and Behavioral Correlates in a Socially Stable Group of Five Captive Chimpanzees (*Pan troglodytes*). March, 1999.

**Current Graduate Students:**

Julie Reveles, Amanda Carner, RyAnn Stafford, Savannah Schulz, Kaeley Sullins, Susie Keenan, Meg Mas, Lisa Wilding, Alexandra Casti, Whitney Emge, and Katherine MacDonald.

**Undergraduate Mentor:**

Glee Larson, STEP. 2010. Douglas Honors College Thesis. 2011-2012

Julie Reveles, McNair Scholar. 2009-2010.

Cristy Rasmussen, McNair Scholar. 2008-2010

Jason Wallin, College of the Sciences Undergraduate Honor Thesis Award, Co-Mentor. 2007

**Faculty Mentored Presentations:**

- Cole, M., & Herigstad, T. (2010, May). Daily Arousal Levels' Effect on a Chimpanzee's Categorical Sign Usage. Paper presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.
- Gibbon, J., Leake, M., & Potosky, R. (2010, May). Use of Holiday Related Signs by a Cross-Fostered Chimpanzee. Paper presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.
- Potosky, R. (2010, May). Use of Modulation in Response to Requests for Clarification in Chimpanzees. Paper presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.
- Wallin, J., (2010, May). A Descriptive Analysis of Chimpanzees' Signed Conversations. Poster presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.
- Zager, L., Bismanovsky, D., & Pewitt, R. (2010, May). Recent Patterns of Language in Adult Chimpanzees Using American Sign Language. Paper presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.
- Blodgett, D., Stadtner, G., Metzler, D., Wallin, J., & Potosky, R. (2008, May). Individual- and Task-Variation in Handedness in Five Cross-Fostered Chimpanzees. Poster presented at the Central Washington University Symposium on University Research and Creative Expression, Ellensburg, WA.

**AD HOC JOURNAL REVIEWER**

Journal of Experimental Child Psychology  
Animal Behavior

Journal Human Evolution  
Zoo Biology  
Journal of Comparative Psychology  
Journal of Advanced Research  
Journal of Animal Ethics  
International Research Journal of Arts & Social Sciences  
IEEE Spectrum

**OTHER REVIEWER**

Wadsworth Cernage Publishers, Ottenheimer, H. *The Anthropology of Language*  
Rocky Mt. Psychological Association  
Biotechnology and Biological Sciences Research Council, UK  
National Institute of Health, P-51 Grant  
John D. & Catherine T. MacArthur Foundation

**AWARDS & RECOGNITION**

Sigma Xi Distinguished Lecturer 2013-2015  
The 4th International SAGA Symposium. Young Researchers Program for Foreigners Award.  
1999



# **EXHIBIT B**

## EXHIBIT B

### References:

- Bodamer, M.D. and Gardner, R.A. (2002) How cross-fostered chimpanzees (*Pan troglodytes*) initiate and maintain conversations. *Journal of Comparative Psychology* 116(1): 12-26.
- Bodamer, M.D., Fouts, R.S., and Jensvold, M.L.A. (1994) Functional analysis of chimpanzee (*Pan troglodytes*) private signing. *Human Evolution*, 9, 281-296.
- Brakke, K.E. and Savage-Rumbaugh, E.S. (1995) The development of language skills in bonobo and chimpanzee – I. Comprehension. *Language and Communication* 15(2): 121-148.
- Campion, T.L., Jensvold, M.L., and Larsen, G. (2011) Use of gesture sequences in free-living chimpanzees (*Pan troglodytes schweinfurthii*) in Gombe National Park, Tanzania. *American Journal of Primatology*, 73(supplement 1), 97.
- Chalcraft, V.J., and Gardner, R.A. (2005) Cross-fostered chimpanzees modulate signs of American Sign Language. *Gesture* 5(1/2): 107-132.
- Davila-Ross, M., Owren, M., and Zimmermann, E. (2009) Reconstructing the evolution of laughter in great apes and humans. *Current Biology* 19(13): 1106-1111.
- de Waal, F.B.M. (2005) Intentional deception in primates. *Evolutionary Anthropology* 1(3): 86-92.
- Fouts, R. S. and Fouts, D. H. (2004) Primate language. In R. Gregory (Ed.), *The Oxford Companion to the Mind*. Oxford, England: Oxford University Press, 744-747.
- Fouts R.S., Fouts D.H., Abshire M.L. and Bodamer M.D. 1991 Private signing and imaginary play. Paper presented at *Understanding Chimpanzees Conference*. Chicago. IL.
- Fouts R.S., Fouts D.H., and Schoenfeld D. (1984) Sign language conversational interaction between chimpanzees. *Sign Language Studies* 42: 1-12
- Fouts, R.S., Fouts, D.H., and Van Cantfort, T.E. (1989) The infant Loulis learns signs from cross-fostered chimpanzees. In R. A. Gardner, B. T. Gardner, and T. E. Van Cantfort (Eds.) (1989) *Teaching Sign Language to Chimpanzees*. Albany: State University of New York Press.
- Fouts, R.S. and Waters, G. (2001). Chimpanzee sign language and Darwinian continuity: Evidence for a neurology continuity of language. *Neurological Research*, 23: 787-794.
- Furrow, D. (1984) Social and private speech at two years. *Child Development* 55: 355-362.
- Gardner, B. T., and Gardner, R. A. (1998) Development of phrases in the utterances of children and cross-fostered chimpanzees. *Human Evolution* 13: 161-188.

- Gardner, B. T., and Gardner, R. A. (1994) Development of phrases in the utterances of children and cross-fostered chimpanzees. *NATO ASI Series D Behavioural and Social Sciences*: 223-223.
- Gardner, B. T., and Gardner, R. A. (1989) Prelinguistic development of children and chimpanzees. *Journal of Human Evolution* 4: 433-460.
- Gardner, R. A., and Gardner, B.T. (1969) Teaching Sign Language to Chimpanzees. *Science* 165: 664-672.
- Goodall, J. (1986) *The Chimpanzees of Gombe*. Harvard University Press.
- Hartman, J.Q. (2011) Timing of turn initiations in signed conversations with cross-fostered chimpanzees (*Pan troglodytes*). *International Journal of Comparative Psychology* 24: 177-209.
- Hayaki, H. (1985) Social play of juvenile and adolescent chimpanzees in the Mahale Mountain National Park Tanzania. *Primates* 26: 343-360.
- Hayes, C. (1952) *An Ape In Our House*. Harper and Brothers.
- Hedden, B., Lammert, R., Hill, A., Goldfein, J., Jensvold, M.L., Dietz, L., and Sheeran, L.K. (2005). Laughter, smiling and humor: A preliminary report. *Friends of Washoe*, 27(1), 16-17.
- Hobaiter, C., and Byrne, R. W. (2011) Serial gesturing by wild chimpanzees: Its nature and function for communication. *Animal Cognition* 14:827-838.
- Jaffe, S., Jensvold, M. L., and Fouts, D. (2002) Chimpanzee to chimpanzee signed interactions. In V. Landau (Ed.), *Chimpanzee conference proceedings: The Chimpanzee Community* (pp. 67-75). Tucson, AZ: ChimpanZoo.
- Jensvold, M.L. (2009) Animals and language. In K. Malmkjaer (Ed.), *Linguistics encyclopedia* (pp. 9-15). Routledge: London.
- Jensvold, M.L.A., and Fouts, R.S. (1993). Imaginary play in chimpanzees (*Pan troglodytes*). *Human Evolution*, 8, 217-227.
- Jensvold, M.L., and Gardner, R.A. (2007). Conversational use of sign language by cross-fostered chimpanzees. In F.R. Lewis (Ed.), *Focus on Non-verbal Communication Research* (pp. 237-279). Hauppauge, NY: Nova Science Publishers.
- Jensvold, M.L.A., & Gardner, R.A. (2000) Interactive use of sign language by cross-fostered chimpanzees. *Journal of Comparative Psychology*, 114, 335-346.

- Krause, M.A., and Fouts, R.S. (1997) Chimpanzee (*Pan troglodytes*) pointing: Hand shapes, accuracy, and the role of eye gaze. *Journal of Comparative Psychology* 111(4): 330-336.
- Larson, G., Jensvold, M.L., and Campion, T. (2011) Gesture use by free-living chimpanzees related to partner attentional state. *Friends of Washoe*, 32(4), 9-10.
- Leavens, D. A., Russell, J.L., and Hopkins, W.D. (2005) Intentionality as measured in the persistence and elaboration of communication by chimpanzees (*Pan troglodytes*). *Child Development* 76:291-306.
- Leeds, C.A., and Jensvold, M.L (In press.) The communicative functions of five signing chimpanzees (*Pan troglodytes*) *Pragmatics & Cognition* 21:1.
- Leitten, L., Jensvold, M.L., Fouts, R., and Wallin, J. (2012) Contingency in requests of signing chimpanzees (*Pan troglodytes*). *Interaction Studies*, 13, 147-164.
- Lyn, H., Greenfield, P.M., Savage-Rumbaugh, S., Gillespie-Lynch, K., and Hopkins, W.D. (2011) Nonhuman primates do declare! A comparison of declarative symbol and gesture use in two children, two bonobos, and a chimpanzee. *Language and Communication* 31: 63-74.
- Matthews, W.S. (1977) Modes of transformation in the initiation of fantasy play. *Developmental Psychology* 13: 112-216.
- McCarthy, M., Jensvold, M.L., and Fouts, D.H. (2013) Use of gesture sequences in captive chimpanzee (*Pan troglodytes*) play. *Animal Cognition* 16: 471-481.
- Melis, A.P., Call, J., and Tomasello, M. (2006) Chimpanzees (*Pan troglodytes*) conceal visual and auditory information from others. *Journal of Comparative Psychology* 120(2): 154-162.
- Osvath, M., and Osvath, H. (2008) Chimpanzee (*Pan troglodytes*) and orangutan (*Pongo abelii*) forethought: self-control and pre-experience in the face of future tool-use. *Animal Cognition* 11: 661-674.
- Savage-Rumbaugh S. and McDonald D. 1988 *Deception and social manipulation in symbol-using apes*. In R.W. Byrne and A. Whiten (Eds). *Machiavellian Intelligence*, pp. 224-237. University Press.
- Vygotsky, L. (1962) *Thought and Language*. MIT Press.
- Winsler, A., Fernyhough, C. and Montero, I. (2009) *Private Speech, Executive Functioning, and the Development of Verbal Self-regulation*. Cambridge University Press.
- Whiten, A., and Byrne, R.W. (1988) Tactical deception in primates. *Behavioral and Brain Sciences* 11: 233-273.