

CURRICULUM VITAE

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Ape Cognition and Conservation Initiative

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RESEARCH INTERESTS:

- The evolutionary origins of human language and socio-communicative behavior
- Nonhuman primate communicative behavior (esp. great ape vocal and gestural communication) and the biological substrates that support these behaviors
- Animal cognition and its biological basis
- The evolution of neuroanatomical asymmetries as well as their behavioral relevance

EDUCATION:

DEGREE: Doctor of Philosophy

PROGRAM: Neurobiology and Behavior, Department of Biology

INSTITUTION: Georgia State University, Atlanta, GA (2004)

DISSERTATION TITLE: Functional Asymmetries for Bonobo Vocal Communication

DEGREE: Bachelor of Arts

MAJOR: Department of Biology

INSTITUTION: University of Virginia, Charlottesville, VA (1997)

PROFESSIONAL EXPERIENCE:

POSITION: Associate Professor of Biology

INSTITUTION: Department of Ecology, Evolution, and Organismal Biology, Kennesaw State University, Kennesaw, GA (2015-present)

POSITION: Director

INSTITUTION: Ape Cognition and Conservation Initiative, Des Moines, IA
(2013-present)

POSITION: Assistant Professor of Biology

INSTITUTION: Department of Biology and Physics, Kennesaw State University, Kennesaw, GA
(2010-2015)

POSITION: Assistant Professor of Biology

INSTITUTION: Department of Natural Sciences, Clayton State University, Morrow, GA
(2008-2010)

POSITION: Research Associate

INSTITUTION: Yerkes National Primate Research Center, Emory University, Atlanta, GA
(2008-2018)

POSITION: Postdoctoral Fellow

INSTITUTION: Yerkes National Primate Research Center, Emory University, Atlanta, GA
(2004-2008)

POSITION: Research Associate

INSTITUTION: Language Research Center, Georgia State University, Atlanta, GA (2001-2004)

POSITION: Graduate Research Assistant

INSTITUTION: Department of Biology, Georgia State University, Atlanta, GA (1998-2000)

POSITION: Student Research Coordinator

INSTITUTION: DuMond Conservancy, Miami, FL (1997-1998)

PROFESSIONAL MEMBERSHIPS:

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| 1999 | Founding Member, Comparative Cognition Society |
| 2000 | Member, Southern Society for Philosophy and Psychology |
| 2000 | Member, Animal Behavior Society |
| 2000 | Member, American Society of Primatologists |

INVITED PRESENTATIONS:

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| 1999 | Invited speaker at the "Conference on Children's language: Conversations across disciplines" held at the University of Sydney, Sydney Australia (15-17 December 1999) |
| 2001 | Invited speaker at the Animal Cognition and Emergents Symposium held at the 109 th annual convention of the American Psychological Association in San Francisco, CA (24-28 August 2001) |
| 2002 | Invited speaker at the COE2/SAGA5 International Symposium entitled, "Evolution of the apes and the origins of the human beings" held in Inuyama, Japan (14-17 November 2002) |
| 2007 | Keynote speaker at the 6 th annual Georgia Undergraduate Research in Psychology Conference, Kennesaw State University, Kennesaw, GA (14 April 2007) |

- 2007 Invited speaker at the Jane Goodall Institute's 2007 ChimpanZoo Conference in Wichita, KS (10-13 October 2007)
- 2008 Invited participant at the Workshop on Functional Imaging of the Primate Auditory System, National Institute of Mental Health, Bethesda, MD (13 November 2008)
- 2010 Invited speaker at the 102nd annual meeting of the Southern Society For Philosophy and Psychology, Atlanta, GA (15-17 April 2010)
- 2010 Invited speaker at the 9th International Congress of Neuroethology, Salamanca, Spain (2-7 August 2010)
- 2011 Neurobiological correlates of multimodal communication in primates. Invited presentation at the Newcastle University Institute of Neuroscience, Newcastle, UK (February 2011)
- 2011 The neural correlates of multimodal communication in chimpanzees. Invited presentation at the Max Planck Institute for Human Cognitive and Brain Sciences, Auditory Cognition Research Group, Leipzig, Germany (February 2011)
- 2011 Invited speaker at the 34th annual meeting of the American Society of Primatologists, Austin, TX (16-19 September 2011)
- 2012 Invited speaker at the 24th Congress of the International Primatological Society, Cancun, Mexico (12-17 August 2012)
- 2016 Keynote speaker at the 8th International Conference in Evolutionary Linguistics, Bloomington, Indiana (8-10 August 2016)
- 2016 Invited speaker at the 4th Understanding Chimpanzees Conference: Chimpanzees In Context, Chicago, Illinois (18-20 August 2016)

TEACHING EXPERIENCE:

- Graduate Seminar in Integrative Biology
Kennesaw State University
Fall 2016, Fall 2017
- Behavioral Biology
Kennesaw State University
Fall 2010, Fall 2011, Fall 2012, Spring 2013, Spring 2014, Spring 2015, Spring 2016, Spring 2017, Spring 2018
- Primate Biology (Advanced Topics in Ecology and Evolution)
Kennesaw State University
Fall 2013, Fall 2014
- Biological Principles II

Kennesaw State University
Spring 2011, Spring 2012, Fall 2018

- Animal Behavior
Clayton State University
Spring 2010
- Comparative Vertebrate Anatomy and Comparative Vertebrate Anatomy Lab
Clayton State University
Spring 2009, Spring 2010
- Biology Seminar
Clayton State University
Spring 2010
- Human Anatomy and Physiology and Human Anatomy and Physiology Lab
Clayton State University
Fall 2008, Spring 2009, Fall 2009
- Introduction to Primate Behavior
Georgia State University
Fall 2002
Graduate Teaching Assistant
- Animal Behavior Laboratory
University of Virginia
Spring 1997
Undergraduate Teaching assistant to M. Kawasaki

COMPLETED RESEARCH SUPPORT:

- The British Academy
Leverhulme Small Research Grant
Tagliatela (Co-I; with Z. Clay and K. Slocombe)
05/01/2017 – 04/30/2018

Building a bonobo dictionary: Insights into call meaning and affect from language-competent apes

In human language, spoken words convey both emotional and referential information; yet determining whether these components are also conveyed in nonhuman animal signals remains challenging. Here, we have the unique opportunity to directly address this question using the world's only group of language-competent bonobos, who can communicate with humans using arbitrary visual symbols (lexigrams). Taking advantage of the bonobos' unique language skills and existing proficiency with touchscreens, we aim to present conspecific calls with varying referential and emotional content and test their comprehension using match-to-sample experiments. This study provides a truly novel opportunity to examine the richness of emotional and referential information conveyed in the vocal repertoire of our ape relatives.

- Kennesaw State University / Office of the Vice President for Research
FY 18 OVPR Pilot/Seed Grant to Attract External Funding
Tagliatela (PI)
07/01/2017 – 06/30/2018

An investigation of theory of mind and self-awareness in linguistically competent bonobos

Theory-of-mind (ToM) is the capacity to respond adaptively to social cues corresponding to mental states (e.g., goals, perceptions, emotions). Although humans have the most highly developed ToM of all animals, there exists a wide spectrum of ToM competencies within our species. Some have suggested that cognitive, neurobiological, and genetic factors may play a role in individual differences in ToM. For instance, children diagnosed with autism spectrum disorder (ASD) are about 40% more likely than unaffected siblings to have some form of genetic mutation. In terms of cognition, developmental studies have shown that children who exhibit delays in self-awareness and language show corresponding delays in ToM development. Our proposed research aims to elucidate the relationship between ToM and related socio-cognitive abilities including self-awareness, introspection, and symbolic competence in linguistically-competent bonobos. Bonobos present a valuable model for studying ToM and related cognitive systems because of their phylogenetic, neuroanatomical, and social-behavioral similarities to humans.

- Kennesaw State University / College of Science and Mathematics
CSM STIMULUS FUNDING
Tagliatela (PI)
02/15/2016 – 06/30/2017

Manual motor skill and the foundations of oro-facial motor control

Human speech production requires the neural coordination and integration of a variety of motor systems including those that control oro-facial musculature, peripheral speech organs, and breath control. In human children, there is an association between manual motor skill and expressive language abilities. Specifically, manual motor skill at a very young age predicts expressive language abilities later in development, and delays in manual motor skills correlate with expressive language delays. However, these data are only correlational, and direct evidence regarding the *influence* of manual motor skill on expressive language remains absent. To this end, this project aims to experimentally determine the influence that manual motor skill has on oro-facial motor and breath control in bonobos (the great ape species most closely related to humans). Specifically, we are proposing to first train participants on a number of tasks that require fine manual motor control. We will then examine the rate and success of subsequent training on tasks that require fine motor control of the oro-facial musculature and breathing - elements fundamental to speech production in humans.

- Kennesaw State University / College of Science and Mathematics
SHARK TANK
Tagliatela (PI)
10/19/2015 – 05/16/2016

Does a deletion in the non-coding region of *Avpr1a* influence its expression in chimpanzees?

Chimpanzees have a unique polymorphic deletion of a microsatellite 5' of the AVPR1a gene which codes for receptors of the neuropeptide Arginine Vasopressin (AVP) resulting in chimpanzees with two distinct genotypes for this allele (DupB+ and DupB-). In humans, although not polymorphic for the AVPR1a gene, there is a growing body of evidence linking modifications in the non-coding region of AVPR1a gene and autism spectrum disorders. Here, we are proposing to use luciferase reporter assays to determine if expression of the AVPR1a gene is impacted by a deletion in the non-coding region of this gene in chimpanzees, and if these differences in expression correspond with differences in observed behavioral phenotypes.

- Kennesaw State University / Office of the Vice President for Research
PTAGL
Tagliatela (PI)
02/01/2014 – 05/31/2014

New insights into human origins through the study of linguistically competent bonobos

This project aims to determine the spoken English comprehension and visual-graphic production of captive linguistically competent bonobos. The goal of this project is to collect preliminary data that may be used to provide proof of concept results to extramural funding agencies on the unprecedented insights that linguistically competent bonobos can provide for the study of human language and advanced cognition.

- NIH/NIDCD
1R15DC011005-01
Tagliatela (PI)
04/01/2010 – 03/31/2013

The neurofunctional foundations of oro-facial motor control

The long-term objectives of this proposal are to understand the neurobiological basis of complex cognitive, perceptual and motor processes from the standpoint of neurophysiological and neuroanatomical specializations of the left and right cerebral hemispheres. One aim of the proposed studies is to evaluate the effect of lateralization on the homolog to Broca's area, referred to as the inferior frontal gyrus, on the acquisition of oro-facial motor control. Specifically, chimpanzees that are left or right hemisphere dominant for the inferior frontal gyrus will be trained to produce a novel sound referred to as the raspberry (RASP). If the left inferior frontal gyrus is selectively involved in oro-facial motor learning, then left dominant chimpanzees should reach criterion on the oro-facial motor learning task significantly faster than the right hemisphere dominant individuals. A second aim is to evaluate the neural correlates of oro-facial motor control in chimpanzees. Of specific interest is identification of brain areas functionally used during the production of intentional vocal signals. The overall studies will contribute to our understanding of factors that influence individual and species differences in the expression of hemispheric specialization.

- Kennesaw State University, College of Science and Mathematics Mentor-Protégé Program
JTAGLIA-07-FY2013-01
Taglialatela (PI)
07/01/2012 – 06/30/2013

Multimodal communication in captive bonobos, *Pan paniscus*

The proposed project seeks to address the general hypothesis that continuities exist between chimpanzee communicative behavior and components that are fundamental to human language. Specifically, I hypothesize that similar to the way that humans regularly couple their spoken utterances with manual communicative gestures, chimpanzees produce manual communicative gestures in conjunction with their vocalizations suggesting that human language evolved from a multimodal communication system present in the common ancestor of humans and chimpanzees approximately 5 million years ago (mya). Critical for evaluating this hypothesis are data from bonobos, *Pan paniscus*. Bonobos, like chimpanzees, shared a common ancestor with humans approximately 5 mya. However, bonobos and chimpanzees are phylogenetically much more closely related, sharing a common ancestor approximately 1 mya. To determine if the observed similarities between humans and chimpanzees in the use of multimodal communicative signals is the result of homology or convergent evolution, examining bonobo communicative behavior is critical. If the bonobos similarly pair their vocal utterances with manual communicative gestures, then this would support the hypothesis that this multimodal signaling was present in the common ancestor of modern day chimpanzees, humans, and bonobos.

- Kennesaw State University, College of Science and Mathematics Mentor-Protégé Program
JTAGLIA-24-FY2011-01
Taglialatela (PI)
07/01/2011 – 06/30/2012

Chimpanzee multimodal communication

This project seeks to examine the concomitant use of vocalizations and manual communicative gestures by group-living chimpanzees at the Michale E. Keeling Center for Comparative Medicine and Research (MEKCCMR). Systematic observations of individual chimpanzees interacting with conspecifics will be conducted. To collect sufficient data from each subject, a focal sampling method will be used to record all occurrences of relevant communicative behaviors. In addition, a subset of observation sessions will be audio/video recorded by the PI, an experienced research technician, or a trained undergraduate student for later quantification and analysis. Behavioral data will be analyzed to evaluate the hypothesis that vocalizations are produced flexibly and in conjunction with other communicative modalities when chimpanzees are interacting with conspecifics in close physical proximity.

- Kennesaw State University, College of Science and Mathematics
Faculty Summer Research Award
Taglialatela (PI)
06/01/2011 – 07/31/2011

Multimodal communication in chimpanzees

The proposed project seeks to examine the concomitant use of vocalizations and manual communicative gestures by group-living chimpanzees at the Michale E. Keeling Center for Comparative Medicine and Research (MEKCCMR) and to actively and meaningfully involve two KSU undergraduate students in the Department of Biology and Physics in all aspects of a behavioral research project. Systematic observations of individual chimpanzees interacting with conspecifics will be conducted. To collect sufficient data from each subject, a focal sampling method will be used. In addition, observation sessions will be audio/video recorded for later quantification and analysis.

- NIH/NIDCD
F32 DC007823
Taglialatela (PI)
01/02/2006 – 09/01/2008

Neurofunctional Asymmetries and Vocal Perception

It is commonly accepted that language functions are processed asymmetrically in the human brain, with the left hemisphere dominant. It is believed that this lateralization enables the rapid perception, organization, and production of the complex acoustic signals that are essential for human spoken language. For those interested in the evolution of both the behavioral and neurological substrates of human speech, it is imperative to examine the phylogenetic origins of this neural lateralization. One way to approach this issue is to study the neuroanatomical structures involved in the perception and processing of nonhuman primate vocal signals. Advances in functional neural imaging techniques now make it possible to examine these systems in vivo. The following project is proposed to determine whether or not chimpanzees, *Pan troglodytes*, perceive and process communicatively salient vocalizations via a left- lateralized mechanism. To accomplish this aim, Positron Emission Tomography (PET) will be used to visualize neuronal activity in chimpanzees while perceiving conspecific vocalizations.

- NIH/NINDS
NS036605
Hopkins (PI)
09/15/2004 – 05/31/2008

Neurobiology of Hemispheric Specialization in Primates

Role: Research Associate

The long-term objectives of this project are to understand the neurobiological basis of complex cognitive, perceptual and motor processes from the standpoint of neurophysiological and neuroanatomical specializations of the left and right cerebral hemispheres. Positron emission tomography (PET) and Magnetic Resonance Imaging (MRI) are used to assess the neurobiology of gestural and vocal communication in chimpanzees in an effort to enhance our understanding of factors that influence individual and species differences in the expression of hemispheric specialization.

- Milton and Ethel Harris Family Foundation
DLN45
Savage-Rumbaugh (PI)
05/01/2003-05/01/2004

Study of Linguistic Vocal Communication of Bonobos

Role: Research Associate

This study was designed to investigate the vocal behavior of 8 bonobos at Georgia State University's Language Research Center in response to conversational spoken English directed to them and produced around them, in order to determine whether or not vocal production varies as a function of rearing experience.

- NIH/NICHD
PO1 HD06016-29
Savage-Rumbaugh (PI)
05/16/2000-04/01/2004

Studies of Language, Culture, and Tools

Role: Research Associate

This study was designed to examine the role of culture and its influence on various cognitive and communicative competencies of bonobos at the Language Research Center.

AWARDS:

American Psychological Association Annual Meeting
2004
Best Poster Presentation
Division 6 - Behavioral Neuroscience & Comparative Psychology

PROFESSIONAL SERVICE:

2015 – present	College Faculty Council Kennesaw State University College of Science and Mathematics Committee member (2015 – 2016), Chair (2016 – present)
2014 – present	Institutional Animal Care and Use Committee Ape Cognition and Conservation Initiative Committee member
2012 – present	Institutional Animal Care and Use Committee Kennesaw State University Committee member (2012 – 2015), Chair 2015 - present)
2011 – present	Masters in Integrative Biology Committee Department of Biology and Physics Kennesaw State University Committee member

2006 – 2008 Eco Team Leader, Roots & Shoots. Roots & Shoots is an environmental education program of the Jane Goodall Institute that utilizes learning and service projects to promote care and concern for animals, the environment, and the human community. Project involved active teaching and regular interaction with 3rd grade students at Mary Lin Elementary in Atlanta, GA.

Ad Hoc reviewer for the following journals:

Animal Behaviour
Animal Cognition
American Journal of Primatology
Behavioral Neuroscience
Behavioural Brain Research
Biology Letters
Brain Research
Cognitive Science
Comparative Cognition and Behavior Reviews
Developmental Psychobiology
Frontiers in Zoology
Human Biology
International Journal of Primatology
Journal of Anthropological Sciences
Journal of Neuroscience
Nature Communications
PLoS ONE
Psychonomic Bulletin and Review

PUBLICATIONS:

RESEARCH PAPERS:

Savage-Rumbaugh, S., W. M. Fields & **J. P. Tagliatela** (2000). Ape consciousness-human consciousness: A perspective informed by language and culture. *American Zoologist* **40**(6): 910-921.

Savage-Rumbaugh, E. S., W. M. Fields & **J. P. Tagliatela** (2001). Language, speech, tools, and writing: A cultural imperative. *Journal of Consciousness Studies* **8**(5-7): 273-292.

Benson, J., P. Fries, W. Greaves, K. Iwamoto, S. Savage-Rumbaugh & **J. Tagliatela** (2002). Confrontation and support in bonobo-human discourse. *Functions of Language* **9**(1): 1-33.

Benson, J., W. Greaves, M. O'Donnell, & **J. Tagliatela** (2002). Evidence for symbolic language processing in a bonobo (*Pan paniscus*). *Journal of Consciousness Studies* **9**(12): 33-56.

Tagliatela, J. P., S. Savage-Rumbaugh, & L. A. Baker (2003). Vocal production by a language-competent bonobo, *Pan paniscus*. *International Journal of Primatology* **24**(1): 1-17.

- Tagliatela, J. P.** (2004). Functional asymmetries for bonobo vocal communication. [Doctoral Dissertation].
- Benson, J. D., M. Debashish, W. S. Greaves, J. Lukas, S. Savage-Rumbaugh, & **J. P. Tagliatela** (2004). Mind and brain in apes: a methodology for phonemic analysis of vocalizations of language competent bonobos. Language Sciences **26**(6): 643-660.
- Tagliatela, J. P.** & L. A. Tagliatela (2005). Conversational vocal exchanges and the evolution of spoken meaning. Linguistics and the Human Sciences **1**(2): 225-243.
- Tagliatela, J. P.**, C. Cantalupo, & W. D. Hopkins (2006). Gesture handedness predicts asymmetry in the chimpanzee inferior frontal gyrus. NeuroReport **17**(9): 923-927.
- Hopkins, W. D., **J. P. Tagliatela**, & D. A. Leavens (2007). Chimpanzees differentially produce novel vocalizations to capture the attention of a human. Animal Behaviour **73**: 281-286.
- Hopkins, W. D., **J. P. Tagliatela**, L. Dunham*, & P. Pierre (2007). Behavioral and neuroanatomical correlates of white matter asymmetries in chimpanzees (*Pan troglodytes*). European Journal of Neuroscience **25**: 2565-2570.
*undergraduate student
- Hopkins, W. D., C. Cantalupo, & **J. P. Tagliatela** (2007). Handedness is associated with asymmetries in gyrification of the cerebral cortex of chimpanzees. Cerebral Cortex **17**: 1750-1756.
- Hopkins, W. D., L. A. Dunham*, C. Cantalupo, & **J. P. Tagliatela** (2007). The association between handedness, brain asymmetries and corpus callosum size in chimpanzees (*Pan troglodytes*). Cerebral Cortex **17**: 1757-1765.
*undergraduate student
- Tagliatela, J. P.**, M. Dadda, & W. D. Hopkins (2007). Sex differences in asymmetry of the planum parietale in chimpanzees (*Pan troglodytes*). Behavioral Brain Research **184**: 185-191.
- Tagliatela, J. P.**, J. L. Russell, J. A. Schaeffer, W. D. Hopkins (2008). Communicative signaling activates "Broca's" homologue in chimpanzees. Current Biology **18**: 343-348.
- Hopkins, W. D., **J. P. Tagliatela**, A. Meguerditchian, T. Nir, N. M. Schenker, & C. C. Sherwood (2008). Gray matter asymmetries in chimpanzees as revealed by voxel-based morphometry. NeuroImage **42**: 491-497.
- Pierre, P.J., W. D. Hopkins, **J. P. Tagliatela**, C. J. Lees, & A. J. Bennett (2008). Age-related neuroanatomical differences from the juvenile period to adulthood in mother-reared macaques (*Macaca radiata*). Brain Research **1226**: 56-60.

- Tagliatela, J.P.**, J. L. Russell, J. A. Schaeffer, & W. D. Hopkins (2009). Visualizing vocal perception in the chimpanzee brain. Cerebral Cortex **19**: 1151-1157.
- Cantalupo C., J. Oliver, J. Smith, T. Nir, **J. P. Tagliatela**, & W. D. Hopkins (2009). The chimpanzee brain shows human-like perisylvian asymmetries in white matter. European Journal of Neuroscience **30**: 431-438.
- Hopkins, W. D., **J. P. Tagliatela**, J. L. Russell, T. M. Nir, & J. A. Schaeffer (2010). Cortical Representation of Lateralized Grasping in Chimpanzees (*Pan troglodytes*): A Combined MRI and PET Study. PLoS ONE. 5(10): e13383.
- Hopkins, W. D., **J. P. Tagliatela**, T. Nir, N. M. Schenker, & C. C. Sherwood (2010). A Voxel-Based Morphometry Analysis of White Matter Asymmetries in Chimpanzees (*Pan troglodytes*). Brain, Behavior and Evolution. 76: 93-100.
- Tagliatela, J.P.**, J. L. Russell, J. A. Schaeffer, & W. D. Hopkins (2011). Chimpanzee Vocal Signaling Points to a Multimodal Origin of Human Language. PLoS ONE 6(4): e18852.
- Tagliatela, J.P.**, L. Reamer, S. J. Schapiro, & W. D. Hopkins. (2012) Social learning of a communicative signal in captive chimpanzees. Biology Letters
doi:10.1098/rsbl.2012.0113
- Hopkins, W.D., & **J.P. Tagliatela**. (2013). Initiation of joint attention is associated with morphometric variation in the anterior cingulate cortex of chimpanzees (*Pan troglodytes*). American Journal of Primatology. 75: 441-449.
- Talkington, W. J., **J. P. Tagliatela**, & J. W. Lewis (2013). Using naturalistic utterances to investigate vocal communication processing and development in human and non-human primates. Hearing Research **305**: 74-85.
- Russell, J. L., J. M. McIntyre, W. D. Hopkins, & **J. P. Tagliatela** (2013). Vocal learning of a communicative signal in captive chimpanzees, *Pan troglodytes*. Brain and Language 127: 520-525.
- Meguerditchian, A., **J. P. Tagliatela**, D. A. Leavens, & W. D. Hopkins (2014). Why vocal production of atypical sounds in apes and its cerebral correlates have a lot to say about the origin of language. Behavioral and Brain Sciences 37: 565-566.
- Tagliatela, J. P.**, J. L. Russell, S. M. Pope, T. Morton, S. Bogart, L. A. Reamer, S. J. Schapiro & W. D. Hopkins (2015). Multimodal communication in chimpanzees. American Journal of Primatology 77: 1143-1148.

- Stimpson, C. D., N. Barger, **J. P. Tagliatela**, A. Gendron-Fitzpatrick, P. R. Hof, W. D. Hopkins, C. C. Sherwood (2015). Differential serotonergic innervation of the amygdala in bonobos and chimpanzees. Social, Cognitive and Affective Neuroscience.
- Latzman, R. D., **J. P. Tagliatela**, & W. D. Hopkins (2015). Delay of gratification is associated with white matter connectivity in the dorsal prefrontal cortex: A diffusion tensor imaging study in chimpanzees (*Pan troglodytes*). Proceedings of the Royal Society of London B 282: 20150764.
- Bianchi, S., L. D. Reyes, W. D. Hopkins, **J. P. Tagliatela**, & C. C. Sherwood (2016). Neocortical grey matter distribution underlying voluntary, flexible vocalizations in chimpanzees. Scientific Reports 6.
- Pope, S. M., **J. P. Tagliatela**, S. A. Skiba, & W. D. Hopkins (2018). Changes in Frontoparietotemporal connectivity following do-as-I-do imitation training in chimpanzees (*Pan troglodytes*). Journal of Cognitive Neuroscience 30(3): 421-431.
- Issa, H. A., N. Staes, S. Diggs-Galligan, C. D. Stimpson, A. Gendron-Fitzpatrick, **J. P. Tagliatela**, P. R. Hof, W. D. Hopkins, C. C. Sherwood (2018). Comparison of bonobo and chimpanzee brain microstructure reveals differences in socio-emotional circuits. Brain Structure and Function 1-13.

BOOK CHAPTERS:

- Rumbaugh, D. M., E. S. Savage-Rumbaugh & **J. P. Tagliatela** (2002). Language learning: Nonhuman primates. Learning and Memory, Second Edition. J. H. Byrne. Farmington Mills, MI, Macmillan Reference.
- Tagliatela, J. P.**, E. S. Savage-Rumbaugh, D. M. Rumbaugh, J. Benson & W. Greaves (2004). Language, apes, and meaning-making. Language Development: Functional Perspectives on Evolution and Ontogenesis. G. Williams and A. Lukin. London, The Continuum International Publishing Group.
- Rumbaugh, D. M., E. S. Savage-Rumbaugh & **J. P. Tagliatela** (2004). Language, nonhuman. Encyclopedia of Neuroscience, third edition. G. Adelman and B. H. Smith. New York, Elsevier Science.
- Benson, J. D., W. S. Greaves, P. Fries, K. Iwamoto, S. Savage-Rumbaugh, & **J. P. Tagliatela** (2004). Confrontation and Support in Bonobo-human Discourse. Functional Dimensions of Ape-Human Discourse. J. Benson and W. S. Greaves. London, Equinox Publishing.
- Benson, J. D., M. Debashish, W. S. Greaves, J. Lukas, S. Savage-Rumbaugh, & **J. P. Tagliatela** (2004). A methodology for phonemic analysis of vocalizations of language competent bonobos. Functional Dimensions of Ape-Human Discourse. J. Benson and W. S. Greaves. London, Equinox Publishing.

- Benson, J. D., W. S. Greaves, **J. P. Tagliatela**, & P. J. Thibault (2004). The interface of neurobiological and linguistic development. Functional Dimensions of Ape-Human Discourse. J. Benson and W. S. Greaves. London, Equinox Publishing.
- Tagliatela, J. P.** (2005), Ape Language Studies. In A. Sujoldzic (Ed.), Linguistic Anthropology, Encyclopedia of Life Support Systems (EOLSS), Developed under the Auspices of the UNESCO, Oxford, EOLSS Publishers.
- Tagliatela, J. P.** (2007). Functional and structural asymmetries for auditory perception and vocal production in nonhuman primates. In W.D. Hopkins (Ed.), The Evolution of Hemispheric Specialization in Primates, Volume 5, Special Topics in Primatology. Chicago, Academic Press.
- Rumbaugh, D. M., E. S. Savage-Rumbaugh & **J. P. Tagliatela** (2008). Language, nonhuman. Encyclopedia of Neuroscience, fifth edition. G. Adelman and B. H. Smith. New York, Elsevier Science.
- Rumbaugh, D. M., E. S. Savage-Rumbaugh, J. E. King, & **J. P. Tagliatela** (2010). The foundations of primate intelligence and language skills. In D. Broadfield, M. Yuan, K. Schick, & N. Toth (Eds.), The Human Brain Evolving. Stone Age Institute Press.
- Hopkins, W. D., & **J. P. Tagliatela** (2011). Some preliminary observations on the neural correlates of joint attention in chimpanzees. In A. Seeman (Ed.), Joint attention: New developments in Psychology, Philosophy of Mind, and Social Neuroscience. MIT Press.
- Hopkins W. D., **J. P. Tagliatela**, & D. A. Leavens. (2011). Do chimpanzees have voluntary control of their facial expressions and vocalizations? In A. Vilain, C. Abry & J. Schwartz (Eds.), Primate Communication and Human Language: Vocalization, Gestures. Philadelphia: John Benjamins Publishing.
- Hopkins, W. D., & **J. P. Tagliatela** (2012). The role of Broca's area in socio-communicative processes in chimpanzees. In F. B. M. De Waal & P. F. Ferrari (Eds.), The Primate Mind. Harvard University Press.
- Leavens, D. A., **J. P. Tagliatela**, & W. D. Hopkins (2014). From grasping to grooming to gossip: Innovative use of chimpanzee signals in novel environments supports both vocal and gestural theories of language origins. In M. Pina and N. Gontier (Eds.), The Evolution of Social Communication in Primates.
- Skiba, S. A. & **J. P. Tagliatela** (2017). Evolution of Laterality and Language in Primates. In: Kaas, J (ed.), Evolution of Nervous Systems 2e. vol. 4. Oxford: Elsevier.
- Tagliatela, J. P.**, S. C. Milne, R. E. Evans (2018). A comparison of the socio-communicative behavior in chimpanzees and bonobos. In: L. D. Di Paolo, F. Di Vincenzo, and F. De Petrillo (eds.), Evolution of Primate Social Cognition. Springer.

REVIEWS:

Rumbaugh, D. M. & **J. P. Tagliatela** (2003). Sushi? Well done, thank you! Contemporary Psychology **48**(4): 471-473.

Tagliatela, J. P. (2003). Looking forward to a neuroethology of primate vocal communication. American Journal of Primatology **60**: 175-176.

Tagliatela, J. P. (2005). Mapping the origins of human speech. American Journal of Primatology **65**: 99-100.

Petkov, C. I. & **J. P. Tagliatela** (2010). Primate neuroscience and ethology – an enduring union? Current Biology **18**(5): R501-R503.

PRESENTATIONS:

Tagliatela, J. P. & E. S. Savage-Rumbaugh (December, 1999). Vocal communication in language-competent bonobos, *Pan paniscus*. Invited paper presented at the Conference on Children's language: Conversations across disciplines, University of Sydney, Sydney Australia.

Savage-Rumbaugh, S., W. M. Fields, & **J. P. Tagliatela** (April, 2000). Language, culture, and tools. Invited presentation at the Third International Conference on the Evolution of Language, Paris, France.

Tagliatela, J. P. & E. S. Savage-Rumbaugh (April, 2000). Vocalization production and usage in language-competent, captive bonobos (*Pan paniscus*). Oral presentation at the Ninety-Second Annual Meeting of the Southern Society for Philosophy and Psychology, Atlanta, Georgia.

Tagliatela, J. P. & E. S. Savage-Rumbaugh (June, 2000). Vocalization production and usage in language-competent, captive bonobos (*Pan paniscus*). Oral presentation at the Twenty-third Annual Meeting of The American Society of Primatologists, Boulder, Colorado.

Benson, J., P. Fries, W. Greaves, K. Iwamoto, S. Savage-Rumbaugh, & **J. P. Tagliatela** (November, 2000). Confrontation and support in bonobo-human discourse. Oral presentation at the First Workshop of the Systemic Functional Research Community on Interpersonal and Ideational Grammar, Leuven, Belgium.

Savage-Rumbaugh, E. S. & **J. P. Tagliatela** (January, 2001). The mind of the bonobo: expectations, explications, and conversations. Invited presentation at Primates in the New Millennium, The XVIIIth Congress of the International Primatological Society, Adelaide, South Australia.

Baker, L. A., **J. P. Tagliatela**, & D. A. Washburn (June, 2001). On-screen audio waveform as a viable alternative to the voice key. Poster presented at the meeting of the American Psychological Society, Toronto, Ontario.

Baker, L.A., M. J. Beran, & **J. P. Tagliatela** (August, 2001). MTS accuracy by Pan Troglodytes as a function of surface color and form information. Poster presented at the

meeting of the American Society of Primatologists, Savannah, GA.

Tagliatela, J. P. & E. S. Savage-Rumbaugh (August, 2001). Bonobo cognition: expectations, explications, and conversations. Invited presentation at The 109th Convention of the American Psychological Association, San Francisco, CA.

Savage-Rumbaugh, S., T. Spircu, & **J. P. Tagliatela** (August, 2001). Vocal speech in a nonhuman primate. Invited presentation at the XXVII International Ethological Conference, Tuebingen, Germany.

Washburn, D. A., J. D. Smith, **J. P. Tagliatela**, & L. A. Baker (November, 2001). Psychophysical Uncertainty Testing Using Real-Life Stimuli. Poster presented at the meeting of the Society for Judgment and Decision Making, Lake Buena Vista, FL.

Baker, L. A., **J. P. Tagliatela**, & D. A. Washburn (November, 2001). Present, Absent, and All Distances Between: Morphing Images for Signal-Detection Experiments. Oral presentation at the meeting of the Society for Computers in Psychology, Lake Buena Vista, FL.

Baker, L. A., **J. P. Tagliatela**, & D. A. Washburn (November, 2001). On-Screen Audio Waveform as a Viable Alternative to the Traditional Voice Key. Oral presentation at the meeting of the Society for Computers in Psychology, Lake Buena Vista, FL.

Benson, J., C. Cleirigh, W. Greaves, & **J. Tagliatela** (April, 2002). The interface of neurobiological and linguistic development. Poster presented at the Fourth International Conference on the Evolution of Language, Cambridge, MA.

Tagliatela, J. P., S. Savage-Rumbaugh, & L. A. Baker (October, 2002). Vocal production by a language-competent bonobo, *Pan paniscus*. Poster presented at a festschrift in honor of Duane M. Rumbaugh, Georgia State University, Atlanta, GA.

Baker, L. A., M. J. Beran, & **J. P. Tagliatela** (October, 2002). MTS accuracy by *Pan troglodytes* as a function of surface color and form information. Poster presented at a festschrift in honor of Duane M. Rumbaugh, Georgia State University, Atlanta, GA.

Tagliatela, J. P., S. Savage-Rumbaugh, & L. A. Baker (November, 2002). Bonobo vocal conversations. Invited participant at the COE International Symposium, Evolution of the Apes and the Origin of the Human Beings, Inuyama, Japan.

Washburn, D. A., L. A. Baker, **J. P. Tagliatela**, & D. J. Smith (November, 2002). Threat/No-Threat Decisions in an X-Ray Search Task. Poster presented at the annual meeting of the Society for Judgment and Decision Making, Kansas City, MO.

Baker, L. A., D. A. Washburn, & **J. P. Tagliatela** (April, 2003). Individual differences in attention skills and threat detection. Oral presentation at the 95th annual meeting of the Southern Society for Philosophy and Psychology, Atlanta, GA.

Baker, L. A., D. A. Washburn, F. James, J. Thomason*, B. Henderson*, & **J. P. Tagliatela** (May, 2003). Visual search for categorical target in complex arrays: Detecting threat items in carry-on baggage. Poster presented at the annual meeting of the American Psychological Society, Atlanta, GA.

*undergraduate student

Washburn, D. A., L. A. Baker, **J. P. Tagliatela**, & J. D. Smith (October, 2003). The demands on attention in security screening. Presentation at the Annual Meeting of the Human Factors and Ergonomics Society, Denver, CO.

Washburn, D. A., L. A. Baker, **J. P. Tagliatela**, & J. D. Smith (November, 2003). Attention network task (ANT) performance by children and rhesus monkeys. Poster presented at the 44th Annual Meeting of the Psychonomic Society, Vancouver, British Columbia.

Benson, J., M. Debashish, W. Greaves, S. Savage-Rumbaugh, & **J. P. Tagliatela** (December, 2003). On the interpretations of bonobo vocalizations in a bonobo-human discourse setting. Oral presentation at the 30th Annual Meeting of the International Systemic Functional Linguistics Congress, Lucknow, India.

Tagliatela, L. A. & **J. P. Tagliatela** (April, 2004). Conceptual and perceptual processes related to the category effect in visual search. Paper presented at the 96th Annual Meeting of the Southern Society for Philosophy and Psychology, New Orleans, LA.

Tagliatela, L. A., M. J. Beran, **J. P. Tagliatela**, & J. L. Pate (July, 2004). Role of color in object identification by humans and chimpanzees. Poster presented at the Annual Meeting of the American Psychological Association. Honolulu, HI.

Tagliatela, J. P. & W. D. Hopkins (April, 2005). Cognitive testing of chimpanzees using touchscreen. Invited presentation at the Living Links Workshop on the Computerized Testing of Primates. Atlanta, GA.

Washburn, D. A., F. James*, N. Barrett*, L. A. Tagliatela, & **J. P. Tagliatela** (May, 2005). Individual differences in attention skills and temporal variations in threat-detection performance. Poster presented at the 17th Annual Convention of the American Psychological Society. Los Angeles, CA.

*undergraduate student

Tagliatela, J. P., & W. D. Hopkins (August, 2005). Paper presented at the 28th Annual Meeting of the American Society of Primatologists. Portland, OR.

Tagliatela, J. P. & W. D. Hopkins (August, 2006). Gesture handedness predicts asymmetry in the chimpanzee inferior frontal gyrus. Poster presented at the 29th Annual Meeting of the American Society of Primatologists. San Antonio, TX.

Hopkins, W. D., **J. P. Tagliatela**, & J. L. Russell (August, 2006). Localizing handedness in the chimpanzee brain: A combined MRI and PET study. Poster presented at the 29th Annual Meeting of the American Society of Primatologists. San Antonio, TX.

Russell, J. L., **J. P. Tagliatela**, & W. D. Hopkins (August, 2006). The use of positive reinforcement training in chimpanzees (*Pan troglodytes*) for voluntary presentation for IM injections. Poster presented at the 29th Annual Meeting of the American Society of Primatologists. San Antonio, TX.

Tagliatela, J. P., J. L. Russell, J. A. Schaefer, & W. D. Hopkins (March, 2007). Mapping vocal production and auditory perception in the chimpanzee using positron emission

tomography (PET). Poster presented at The Mind of the Chimpanzee conference. Lincoln Park Zoo, Chicago, IL.

- Taglialatela, J. P.** (April, 2007). Searching for the origins of human language: Can chimpanzees help point the way? Keynote address at the 6th Annual Georgia Undergraduate Research in Psychology Conference. Kennesaw, GA.
- Taglialatela, J. P.**, J. L. Russell, J. Schaeffer, D. A. Leavens, & W. D. Hopkins (June, 2007). Chimpanzee vocal control: Don't get so emotional. Paper presented at the 30th Annual Meeting of the American Society of Primatologists. Winston-Salem, NC.
- Hopkins, W. D., **J. P. Taglialatela**, & C. Cantalupo (June, 2007). Normative data of the chimpanzee brain as revealed by magnetic resonance imaging: Age and sex effects. Paper presented at the 30th Annual Meeting of the American Society of Primatologists. Winston-Salem, NC.
- Schaeffer, J., J. L. Russell, **J. P. Taglialatela**, & W. D. Hopkins (June, 2007). Object cues improve performance for spatial memory tasks in captive chimpanzees (*Pan troglodytes*). Poster presented at the 30th Annual Meeting of the American Society of Primatologists. Winston-Salem, NC.
- Taglialatela, J. P.** (October, 2007). What do bonobos and chimpanzees have to say about the evolution of human language? Invited paper presented at the 2007 Chimpanzee Conference. Wichita, KS.
- Taglialatela, J. P.** (March, 2008). Forty years of ape communication: What have we learned about the evolution of language? Workshop organized at the 7th Evolution of Language Conference. Barcelona, Spain.
- Hopkins, W. D., **J. P. Taglialatela**, & A. Meguerditchian (June, 2008). The use of voxel-based morphology to assess asymmetries in the chimpanzee brain: A novel approach to comparative studies in cerebral organization. Paper presented at the 31st Annual Meeting of the American Society of Primatologists. Palm Beach, FL.
- Hopkins, W. D. & **J. P. Taglialatela** (August, 2008). Neural correlates of gesture-vocal communication in chimpanzees: a combined PET-MRI study. Paper presented at the 22nd Meeting of the International Primatological Society. Edinburgh, Scotland.
- Leavens, D. A., W. D. Hopkins, **J. P. Taglialatela**, & J. L. Russell (August, 2008). Deixis and declarative communication among apes. Paper presented at the 22nd Meeting of the International Primatological Society. Edinburgh, Scotland.
- Taglialatela, J. P.** (November, 2008). Visualizing vocal perception in the chimpanzee brain. Invited paper presented at the Workshop on Functional Imaging of the Primate Auditory System. National Institute of Mental Health, Bethesda, MD.
- Cantalupo, C., J. Oliver, **J. P. Taglialatela**, & W. D. Hopkins (November, 2008). Persylvian asymmetries of the chimpanzee brain: behavioral and neuroanatomical correlates. Paper presented at the 38th annual meeting of the Society for Neuroscience. Washington, DC.

- Hopkins, W. D., **J. P. Tagliatela**, & T. Nir (September, 2009). A probabilistic map of Broca's area homolog in chimpanzees (*Pan troglodytes*): grey matter asymmetry correlates with oro-facial motor control. Paper presented at the 23rd annual meeting of the American Society of Primatologists. San Diego, CA.
- Schaeffer, J. A., J. L. Russell, T. Nir, **J. P. Tagliatela**, & W.D. Hopkins (September, 2009). The association of gaze following and initiating joint attention in captive chimpanzees (*Pan troglodytes*). Poster presented at the 23rd annual meeting of the American Society of Primatologists. San Diego, CA.
- Tagliatela, J. P.** & W. D. Hopkins (September, 2009). The rumble in the jungle: Chimpanzee vocalizations vs. manual gestures. Paper presented at the 23rd annual meeting of the American Society of Primatologists. San Diego, CA.
- Tagliatela, J. P.** (April 2010). Communicative signaling in the chimpanzee brain. Invited paper at the 102nd annual meeting of the Southern Society For Philosophy and Psychology, Atlanta, GA.
- Tagliatela, J. P.** (August 2010). Communicative signaling and the chimpanzee brain. Invited paper at the 9th International Congress of Neuroethology, Salamanca, Spain.
- Tagliatela, J. P.** & W. D. Hopkins (September, 2010). Lateralization in Broca's and Wernicke's areas in the chimpanzee brain. Invited paper at the 23rd Congress of the International Primatological Society, Kyoto, Japan.
- Hopkins, W. D. & **J. P. Tagliatela** (September, 2010). Cortical representation of lateralized grasping in chimpanzees (*Pan troglodytes*): A combined MRI and PET study. Invited paper at the 23rd Congress of the International Primatological Society, Kyoto, Japan.
- Tagliatela, J. P.** (February 2011) Neurobiological correlates of multimodal communication in primates. Invited presentation at the Newcastle University Institute of Neuroscience, Newcastle, UK.
- Tagliatela, J. P.** (February 2011) The neural correlates of multimodal communication in chimpanzees. Invited presentation at the Max Planck Institute for Human Cognitive and Brain Sciences, Auditory Cognition Research Group, Leipzig, Germany.
- Tagliatela, J. P.** (September 2011) The neural correlates of multimodal communication in chimpanzees (*Pan troglodytes*). Invited presentation at the 34th Annual Meeting of the American Society of Primatologists, Austin, TX.
- Russell, J. L., S. L. Bogart, J. A. Schaeffer, W. D. Hopkins, & **J. P. Tagliatela** (September 2011). The production of attention-getting vocalizations is related to social competency in captive chimpanzees (*Pan troglodytes*). Oral presentation at the 34th Annual Meeting of the American Society of Primatologists, Austin, TX.
- Tagliatela, J. P.** (March 2012) Chimpanzee communicative signaling and the multimodal origins of human language. Invited presentation at the 104th Annual Meeting of the Southern Society of Philosophy and Psychology, Savannah, GA.

Reamer, L. A., S. P. Lambeth, **J. P. Tagliatalatela**, S. J. Schapiro, & W. D. Hopkins (June 2012) Social Transmission of attention-getting vocalizations among group mates in captive chimpanzees (*Pan troglodytes*). Poster presented at the 35th Meeting of the American Society of Primatologists, Sacramento, CA.

Russell, J. L., W. D. Hopkins, & **J. P. Tagliatalatela** (June 2012) Vocal learning in captive chimpanzees (*Pan troglodytes*): Evidence of flexibility and voluntary control. Paper presented at the 35th Meeting of the American Society of Primatologists, Sacramento, CA.

Tagliatalatela, J. P. (August 2012) Chimpanzee communicative signaling points to a multimodal origin of human language. Invited presentation at the 24th Congress of the International Primatological Society, Cancun, Mexico.

Tagliatalatela, J. P., J. L. Russell, & W. D. Hopkins (March 2013). Vocal learning in captive chimpanzees (*Pan troglodytes*) and its effects on behavior and brain. Paper presented at the 105th annual meeting of the Southern Society for Philosophy and Psychology, Austin, TX.

Tagliatalatela, J. P., B. A. Moore, & W. D. Hopkins (June 2013). Vocal signaling in captive chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*): Implications for the origins of autonomous speech. Paper presented at the 36th Meeting of the American Society of Primatologists, San Juan, PR.

Pope, S. M., M. Misiura, **J. P. Tagliatalatela**, & W. D. Hopkins (June 2013). The association between Broca's area asymmetries and orofacial motor control in chimpanzees. Poster presented at the 36th Meeting of the American Society of Primatologists, San Juan, PR.

Moore, B. A. & **J. P. Tagliatalatela** (June 2013). Vocalizations across contexts in captive chimpanzees, (*Pan troglodytes*). Poster presented at the 36th Meeting of the American Society of Primatologists, San Juan, PR.

Russell, J. L., S. Bogart, **J. P. Tagliatalatela** & W. D. Hopkins (June 2013). Chimpanzee gestural communication points to a multimodal origin of language. Paper presented at the 36th Meeting of the American Society of Primatologists, San Juan, PR.

Tagliatalatela, J. P., C. I. Petkov & W. D. Hopkins (February 2014). Artificial grammar in the chimpanzee brain. Paper presented at the 106th annual meeting of the Southern Society for Philosophy and Psychology, Charleston, SC.

Mahovetz, L. M., J. L. Russell, **J. P. Tagliatalatela**, S. T. Boysen & W. D. Hopkins (August 2014). Individual differences in behavioral reactions to social stimuli are associated with amygdala volume in chimpanzees. Poster presented at the 25th Congress of the International Primatological Society, Hanoi, Vietnam.

Milne, S. C., B. A. Moore, J. L. Russell & **J. P. Tagliatalatela**. (August 2014). The role of socio-ecological factors on conspecific proximity and communicative behavior: A cross species comparison of *Gorilla gorilla*, *Pan troglodytes*, and *Pan paniscus*. Poster presented at the 25th Congress of the International Primatological Society, Hanoi, Vietnam.

Tagliatalatela, J. P., B. A. Moore & W. D. Hopkins (September 2014). Communicative differences

between chimpanzees and bonobos and their implications for the origins of human speech. Paper presented at the 37th Meeting of the American Society of Primatologists, Atlanta, GA.

Stimpson, C. D., W. D. Hopkins, **J. P. Tagliatela**, N. Barger, P. R. Hof & C. C. Sherwood (September 2014). Differences in serotonin transporter density in the amygdala of bonobos (*Pan paniscus*) and chimpanzees (*Pan troglodytes*): Implications for the regulation of social behavior. Paper presented at the 37th Meeting of the American Society of Primatologists, Atlanta, GA.

Milne, S. C. & **J. P. Tagliatela** (September 2014). Conspecific proximity of *Pan troglodytes*, *Pan paniscus*, and *Gorilla gorilla* and the role of the presence of food on socio-ecology. Poster presented at the 37th Meeting of the American Society of Primatologists, Atlanta, GA.

Evans, R. E., J. L. Russell, S. Bogart, S. J. Schapiro, W. D. Hopkins, **J. P. Tagliatela**, L. A. Reamer, M. C. Mareno (June 2015). Polymorphic microsatellites in the 5' flanking region of vasopressin receptor gene 1A (AVPR1a) impact sociability in captive chimpanzees (*Pan troglodytes*). Poster presented at the 38th Meeting of the American Society of Primatologists, Bend, OR.

Milne, S. C. & **J. P. Tagliatela** (June 2015). Captive *Gorilla gorilla* and *Pan paniscus* show similarities in social proximity in certain behavioral contexts but not in others. Poster presented at the 38th Meeting of the American Society of Primatologists, Bend, OR.

Davidek, K. R., **J. P. Tagliatela**, C. Sherwood, W. D. Hopkins (June 2015). Early social environment and sex are associated with white matter asymmetries in the fronto-insular cortex of chimpanzees (*Pan troglodytes*). Poster presented at the 38th Meeting of the American Society of Primatologists, Bend, OR.

Tagliatela, J. P. (April 2016). The neural correlates of multimodal communication in chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*) and their implications for the evolution of human language. Invited poster presented at the 85th Annual Meeting of The American Association of Physical Anthropologists, Atlanta, GA.

Tagliatela, J. P., Invited speaker at the 4th Understanding Chimpanzees Conference: Chimpanzees In Context, "A comparison of socio-communicative behavior in chimpanzees and bonobos," Chicago, Illinois. (August 2016).

Tagliatela, J. P., Keynote speaker at the 8th International Conference in Evolutionary Linguistics, "What can the socio-communicative behavior of chimpanzees and bonobos tell us about the origins of human spoken language?," Bloomington, Indiana. (August 2016).

Dolins, F. L., Menzel, C. R., Milne, S. C., **Tagliatela, J. P.**, Schweller, K., Paper presented at the Joint meeting of the International Primatological Society and the American Society of Primatologists, "Comparing bonobo, chimpanzee and human goal-directed foraging and navigation in a virtual environment." Chicago, Illinois. (August 2016).

Evans, R. E., Schwob, N. G., Skiba, S. A., **Tagliatela, J. P.**, Poster presented at the Joint meeting of the International Primatological Society and the American Society of

Primatologists, "Microsatellites in the non-coding region of arginine vasopressin receptor 1A gene (AVPR1A) contribute to the differential sociality observed between captive *Pan* species, chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*)," Chicago, Illinois. (August 2016).

Pope, S. M., **Taglialatela, J. P.**, Skiba, S. A., Hopkins, W. D. Paper presented at the Joint meeting of the International Primatological Society and the American Society of Primatologists, "The effects of imitation training on mirror neuron region connectivity in chimpanzees." Chicago, Illinois. (August 2016).

Skiba, S. A., Russell, J. L., Hopkins, W. D., **Taglialatela, J. P.** Poster presented at the Joint meeting of the International Primatological Society and the American Society of Primatologists, "Differences in fractional anisotropy in the inferior frontal gyrus (IFG) of chimpanzees that do and do not produce attention-getting calls." Chicago, Illinois. (August 2016).

Schwob, N. G., Moore, B., **Taglialatela, J. P.** Poster presented at the Joint meeting of the International Primatological Society and the American Society of Primatologists, "Chimpanzees that produce attention-getting sounds show similar flexibility in vocal production as compared to those that do not." Chicago, Illinois. (August 2016).

Taglialatela, J. P., Invited speaker at the Evolution of Cognition Group, "A comparison of socio-communicative behavior in chimpanzees and bonobos," Indiana University / Stone Age Institute, Bloomington, Indiana. (March 2017).

Schwob, N. G., Hopkins, W. D., **Taglialatela, J. P.**, 40th annual meeting of the American Society of Primatologists, "Chimpanzees and bonobos demonstrate orofacial motor and breath control," American Society of Primatologists, Washington, DC. (August 2017).

Taglialatela, J. P., Skiba, S. A., Evans, R. E., Hopkins, W. D., 40th annual meeting of the American Society of Primatologists, "Microsatellites in the non-coding region of arginine vasopressin receptor 1A gene (AVPR1A) impact reciprocal socio-communicative behavior in captive chimpanzees, *Pan troglodytes*. American Society of Primatologists, Washington, DC. (August 2017).

Skiba, S. A., Hopkins, W. D., **Taglialatela, J. P.**, 40th annual meeting of the American Society of Primatologists, "The adaptive value of socio-communicative behavior," American Society of Primatologists, Washington, DC. (August 2017).

SELECTED MEDIA COVERAGE OF RESEARCH:

Featured in New Scientist article, "Has this chimp taught himself to talk?" (4 January 2003, Pg. 12) about Taglialatela et al., (2003).

Featured on NPR, "The Todd Mundt Show," in a segment about Taglialatela et al., (2003).

Featured on the History Channel television series, "Evolve," in an episode entitled, "Communication," about Taglialatela et al., (2008).

Featured in Live Science article, "Mama Chimps Teach Kids To Communicate With Humans," about Tagliatela et al., (2012).

Featured on "NOVA Wonders, What are animals saying?" based on my work at the Ape Cognition and Conservation Initiative (2018)