

**Maria Botero**  
Curriculum Vitae

Psychology and  
Philosophy Department,  
Sam Houston State  
University

Dog Cognition Lab

**Areas of Specialization:** Philosophy of Psychology, Animal Cognition, and Philosophy of Science.

**Areas of Competence:** Philosophy of Mind, Bioethics.

## EDUCATION

- 2009 Ph.D., Philosophy, York University,  
*Primate Mother and Infant Interaction, Methods and Mind*. Supervisor: Stuart Shanker.
- 2004 M.A. Philosophy, York University,  
*Patterns of Life and Mind*. Supervisor: Evan Thompson.
- 1999 B.A. Magna Cum Laude Philosophy, Pontificia Universidad Javeriana,  
*Biological Morality, an Explanation of Duty From a Natural History Perspective*. Supervisor: Jörg Alejandro Tellkamp.

## EMPLOYMENT

- 2017- *current* Associate Professor of Philosophy, Sam Houston State University
- 2018-2019 Philosophy Program Coordinator, Psychology and Philosophy Department, Sam Houston State University
- 2010-2017 Assistant Professor of Philosophy, Sam Houston State University
- 2009-2010 Postdoctoral Student, Milton and Ethel Harris Research Initiative, York University

## RESEARCH PUBLICATIONS

### Articles, Book Chapters and Commentaries (Refereed)

Botero M. *forthcoming*. Humans as Animals. In A. Mertig (ed) *Research Handbook on Animals and Society*. Edward Elgar Publishing Ltd.

Botero, M (2022). Chimpanzee Sexual Behavior. In T. Shackelford (Ed) *The Cambridge Handbook of Evolutionary Perspectives on Sexual Psychology* (Cambridge Handbooks in

Psychology). Volume 4, Controversies, Application, and Nonhuman Primate Extensions, Cambridge: Cambridge University Press, p.355-369.

Botero, M. (2021). Primate Parents: Theories, Bias and Change in the Study of the Evolution of Parenting. In N. Gontier, A. Lock & C. Sinha (Eds.) *Handbook of Human Symbolic Evolution*, Oxford University Press. Online publication date May 2021.

Botero, M. & Whatley, E. (2020) Harm, Consent, and Virtual Selves in Full Body Ownership Illusions: Real Concerns for Immersive Virtual Reality Therapies upcoming. *Cambridge Quarterly of Healthcare Ethics*, Clinical Neuroethics Issue, vol 29 (4), p. 585-591.

Botero, M., & Desforges, D. (2020). Role of Moral Values in Evaluation of the Use of Nonhuman Animals in Research. *Society & Animals*, Vol 30, Issue 4, p. 1-18.

Botero, M. (2020). Observing Primates: Gender, Power, and Knowledge in Primatology. In Crasnow S. & Intemann K (Eds.) *The Routledge Feminist Philosophy of Science Handbook*. London and New York: Routledge.

Botero, M., Langley, H. A., & Venta, A. (2020). The untenable omission of touch in maternal sensitivity and attachment research. *Infant and Child Development*, 29(2), e2159.

Botero M. (2020) Primate Orphans. In: Vonk J., Shackelford T. (eds) *Encyclopedia of Animal Cognition and Behavior*. Springer.

Botero, M. (2019). Understanding the Moral Implications of Morgan's Canon. In *The Routledge Handbook of Animal Ethics* (pp. 35-42). Routledge.

Dudzinski, K. M., Hill, H. M., & Botero, M. (2019). Methodological Considerations for Comparison of Cross-species Use of Tactile Contact. *International Journal of Comparative Psychology*, 32.

Botero, M. (2018) Primates are Touched by Your Concern: Touch, Emotion, and Social Cognition in Chimpanzees. In K. Andrews & J. Beck (Eds.), *The Routledge Handbook of Animal Minds* p. 372-380. London and New York: Routledge.

Botero, M. (2018). Bringing Touch Back to the Study of Emotions in Human and Non-Human Primates: A Theoretical Exploration. *International Journal of Comparative Psychology* Volume 31.

Botero, M. (2017) Autonomy in Children: Accessing the Inaccessible Space in Essex County Vol. 1: Tales from the Farm. *Graphic Novels as Philosophy* p. 64-86. University Press of Mississippi.

Botero, M. (2017) To What Kind of Research They Can Dissent? The Role that Distinguishing Between Biomedical and Behavioral Research Plays in Granting Dissent and Assent to Chimpanzees used in Experimentation. *Cambridge Quarterly of Healthcare Ethics*, Volume 26 (2) p. 288-91.

Botero, M. (2016) Tactless Scientists, Ignoring Touch in the Study of Joint Attention. *Philosophical Psychology* 29: 1200-1214.

Botero, M., Buccafurni, D. & Desforges, D. (2016) How Much Should the People Know? Implications of Methodological Choices in The Study of Intentionality and Blame Ascriptions, *Applied Psychology and Criminal Justice*. 12:101-113

Botero, M. (2016) Death in the Family. *Animal Sentience* (1) p. 40.

Botero, M. (2014). How Primate Mothers and Infants Communicate, Characterizing Interaction in Mother-Infant Studies Across Species. In M. Pina & N. Gontier (Eds.), *The Evolution of Social Communication in Primates: A Multidisciplinary Approach* (pp. 83-100). London: Springer.

Botero, M., MacDonald, S., & Miller, R. (2013) Anxiety-related Behavior of Orphan Chimpanzees (*Pan troglodytes schweinfurthii*) at Gombe National Park, Tanzania. *Primates*, Volume 54 (1): 21-26.

Botero, M. (2012) Reconstructing with More Situated Social Interactions, *Emotion Review*, 4: 246-6.

Botero, M. (2011) Genderless Subjects in Cognitive Science: Physicalism in the Transgender World. In T. Teo, P. Stenner, A. Rutherford, et al., (Eds.) *Varieties of Theoretical Psychology International Philosophical and Practical Concerns*, Toronto: Captus University Publications.

### **Book Reviews (Refereed\*)**

Botero, M. (2022). Bringing back morality to animal research ethics. *Metascience* (31), p. 387–390

Botero, M. (2017) Review of *Tense Bees and Shell-Shocked Crabs: Are Animals Conscious?* The Philosophers' Magazine (79), p. 112-113.

Botero, M. (2016) Navigating the Landscape of the Animal Mind, An Interdisciplinary Journey, *Society & Animals* (24), p. 85-88\*.

Botero, M. (2012) Review of *The Primate Mind, Built to Connect with Other Minds*, Frans B. M. de Waal and Pier Francesco Ferrari (Editors), 2012 *Metapsychology Reviews Online*, Volume 16, Issue 35.

Botero, M., (2010) Review of *Cognitive Development in Chimpanzees*, M. Matsuzawa, M. Tomonaga, & M. Tanaka, (Eds.). *The Journal of Developmental Processes*, Volume 2, Issue 2, pp. 115- 119\*.

Botero, M. (2009) Review of *Onflow; Dynamics of Consciousness and Experience* R. Pred, MIT Press. *Metapsychology Reviews Online*, Volume 10, Issue 31.

### **Web Based Publications**

Botero, M (November, 2020) Chimpanzees Correct Cultural Biases About How Good Mothers Behave. *Aeon/Psyche*  
<https://psyche.co/ideas/chimpanzees-correct-cultural-biases-about-how-good-mothers-behave>

Botero, M. (2015, July 20-24). Featured scholar. *The Brains Blog*.  
<http://philosophyofbrains.com/2015/07/20/introducing-maria-botero.aspx>

### **CONFERENCE PRESENTATIONS (Refereed)**

Using the Tenets of Osteopathic Medicine as Curricular Themes. Sharon Gustowski DO, MPH, Maria Botero, Ph.D. Jaime Hinojosa, MD and Michele Haight, Ph.D.

- AACOM Annual Conference, Denver, April 2022.

Impact of Philosophy-based Education on Critical Thinking and Communication in First-Year Osteopathic Medical Students. Sharon Gustowski DO, MPH, Maria Botero, Ph.D. Jaime Hinojosa, MD and Michele Haight, Ph.D.

- AACOM Annual Conference, April 2021

Can animals be moral? Conceptual Challenges & Ethical implications (Panel with Kristin Andrews (CA), Maria Botero (USA), Susana Monsó, Birte Wrage and Judith Benz-Schwarzburg (Vienna).

- EurSafe September 2019, Tampere University, Finland

Co-organizer of symposium “Touch and the Social Mind, An Interdisciplinary Approach”

The Untenable Omission of Touch in Maternal Sensitivity and Attachment Research (co-presenter)

- Southern Society for Philosophy of Psychology, March 2019, Cincinnati, OH

## Radically Different Perceptual Systems and Environments: Redefining Our Understanding of Social Cognition in the case of Echolocation in Dolphins

When vision is not enough: the need for incorporating “touch” in observations of mother-infant interaction in dolphins and chimpanzees (co-presenter).

- Southern Society for Philosophy of Psychology, March 2018, San Antonio, TX

Coding Contact: Clarifying Methods and Functional Units for Comparison Across Taxa (co-presenter)

- European Association of Aquatic Mammals, March 2018, Rome, Italy.
- Communicating Contact: Do Functional Units Differ Across Taxa? (co-presenter)
- Comparative Cognition Meeting, Melbourne, FL, April, 2018.

The Moral Argument Behind a Decision to Retire Chimpanzees from Research as a Guideline for the Use of Animals in Research

- International Bioethics Retreat, June 28-30, Paris, France. Unable to attend

The Moral Status of Chimpanzees Used in Research

- Canadian Philosophical Association (CPA), Toronto, June 2017

Effects of Mother-Infant Interaction on Anxiety and Social Behavior of Infant Chimpanzees (*Pan troglodytes schweinfurthii*) at Gombe National Park, Tanzania<sup>[1]</sup> Co-presenter

- Comparative Cognition Society Annual Meeting, April 19<sup>th</sup> to 22<sup>nd</sup>, 2017, Melbourne, Florida

Effects of Mother-Infant Interaction on Anxiety and Social Behavior of Infant Chimpanzees (*Pan troglodytes schweinfurthii*) at Gombe National Park, Tanzania Co-presenter

- Southern Society for Philosophy of Psychology, Savannah, GA March 22<sup>nd</sup> - 24<sup>th</sup>

The Folk Are the Experts or the Irrelevance of Philosophers to Animal Ethics Committees

- Buffalo Annual Experimental Philosophy Conference, September 2016, Buffalo NY.

Characterizing Interaction in the Study of the Evolution of Social Cognition in Apes and Humans

- Texas Association of Biological Anthropologist Meeting, November 2015, Lubbock, TX.

Primate Emotion

- International Society for the Research on Emotion (ISRE), (poster), July 2015, Geneva, Switzerland.

What Must the Folk Know? The Role of Foreknowledge in Intentionality and Blame Ascriptions

- Buffalo Annual Experimental Philosophy Conference, September 2014, Buffalo, NY.

Primate Mother: The mother of All Collective Basic Emotions

- Collective Intentionality IX Conference, September 2014, Bloomington IN.

Texan Folk Intuitions on Intentionality, Blame, and the Death Penalty: Where What the Folk Think Really Matters, (Co-presenter),

- Association for the Practical and Professional Ethics, February 2013, San Antonio TX.

Anxiety-related Behavior of Orphan Chimpanzees (*Pan troglodytes schweinfurthii*) at Gombe National Park, Tanzania

- Texas Association of Biological Anthropologist Meeting, November 2014, Lubbock, Texas.
- Southern Society for Philosophy and Psychology, June 2013, Austin, TX.
- Society for Philosophy and Psychology, (poster), June 2012, Boulder, CO.

How Primate Mothers and Infants Communicate, Characterizing Interaction in Mother-Infant Studies

- From Grooming to Speaking: Recent trends in social primatology and human ethology, Centre for Philosophy of Science, September 2012, University of Lisbon, Portugal.

Social Emotions. Commentary to M. Brady "In Defense of Valence: How to Solve Hume's Puzzle About Emotions"

- Southern Society for Philosophy and Psychology, March 2012, Savannah, Georgia.

Extended Basic Emotions.

- Society for Philosophy and Psychology, July 2011, Montreal, Canada.

More than Designing an Ethogram: The Implications of Choosing a Methodology in Primatology.

- European Association of Philosophy of Science, October 2009, Vrije University, Amsterdam, The Netherlands.

Beyond Skin and Hair: An Extended Mind Conception of the Chimpanzee Mind.

- Cognition: Embodied, Embedded, Enactive, Extended, October 2007, University of Central Florida, Orlando, FL.

Genderless Subjects in Cognitive Science: Physicalism in the Transgender World

- International Society for Theoretical Psychology, June 2007, Toronto, Canada.

Time as the Web of Reality: The Concept of Time in Cognitive Science

- Society for Philosophy and Psychology, June 2007 (poster), Toronto, Canada.

#### A Neurophysiological Approach to the 17th Century Distinction Between Primary and Secondary Properties of Knowledge

- Fourth International Congress of Philosophy of Science of Latin America, May 2002 Agua de Lindohia, Brasil.

#### A Neurophysiological Approach to Realism and Primary Properties

- Philosophy Professors Colloquium, October 2001, Pontificia Universidad Javeriana, Bogotá, Colombia.

#### An Evolutionary Approach to Ethics

- Philosophy Professors Colloquium, March, 2000, Pontificia Universidad Javeriana, Bogotá, Colombia

### **INVITED PRESENTATIONS**

#### Remodeling the Doors of Perception: Methodological and Ethical Implications of Using Touch to Understand Social Cognition in Animals

- “Animal Minds & Animal Ethics: Across Species, Across Disciplines”. Messerli Research Institute, University of Veterinary Medicine Vienna, University of Vienna, Medical University of Vienna. September 2019, Austria.

#### Emotions Out of Touch: Moving from Vision to Touch to Further Understanding of Emotions in Human and Non-Human Primates

- Workshop on Emotions and Expressions. Expression, Communication and Origins of Meaning Research Group (ECOM), University of Connecticut. April 20-21, 2018, Storrs, CT.

#### Autonomous Chimpanzees Clocking Out for the Last Time: The Moral Argument Behind a Decision to Retire Chimpanzees from Research as a Guideline for the Use of Animals in Research

- Central Texas Workshop on Animal Ethics, February 10, 2017, San Marcos, TX.

#### Touch and Primates: Pushing Open the Doors of Social Perception

- Southern Society for Philosophy and Psychology, March 2016, Louisville, KY.

#### Gaze and Touch in the Study of Human and Non-human Joint Attention

- Philosophy Department, May 2015, University of Houston, Houston, TX.

#### Methods and Mind in the Study of Ape Mother-Infant Interaction

- Psychology Department, scheduled for July 2015, could not attend for personal reasons, University of East London, London, England.

EWCAT—Ethics, Western Civilization, and American Traditions: An Experiment in Transformational Education” (Hendrickson, de Castro, Fair, Botero, and Krienke)

- Presentation at the College of Education Colloquium Fall, 2013, Sam Houston State University, Huntsville, TX.

Chimpanzees in Gombe, Mind and Emotion in Mother-Infant Interaction

- CHSS Colloquium, Fall 2010, Sam Houston State University, Huntsville, TX.

Philosophy as a Performative Act: Empirically Informed Philosophy and Observations in Chimpanzees

- Empirically Informed Philosophy, Department Conference, April 2006, York University, Toronto, Canada.

Perspectives on Philosophy of Science in Latin America

- Philosophy Lectures, May 2001, Pontificia Universidad Javeriana, Bogotá, Colombia.

## **ACADEMIC AWARDS SCHOLARSHIPS AND HONOURS**

2021	“Impact of Philosophy-based Education on Critical Thinking and Communication in First-Year Osteopathic Medical Students” College of Osteopathic Medicine. Sharon Gustowski (PI), Maria Botero (co-PI), Michelle Haight (co-PI). AACOM President’s Osteopathic Tenets Research Award
	“Social Cognition in Non-Human Animals: A Philosophical Analysis” FAST Awards Program (\$8000)
	“Engaging Students in Critical Analysis of Science by Using Active Learning” Engaged Learning Fellowship (ELF).
2020	“Primate Caregivers and the Social Mind” ORSP, Sam Houston State University.
2018	Faculty Development Leave (FDL) (Award granted by a university peer-reviewed committee to selected proposals)
2013-15	Office of the Vice President for Student Services, Sam Houston State University, Student Recognition as Outstanding Faculty
2012	National Endowment for the Humanities (NEH) Summer Institute on Experimental Philosophy, University of Arizona
2008-2009	President Susan Mann Dissertation Scholarship, York University, Canada



2006-2008	Research Fellowship Milton and Ethel Harris Research Initiative Mother-Infant Interaction in chimpanzees ( <i>Pan troglodytes schweinfurthii</i> )
2005-2006	Ontario Government Scholarship, Canada
2004-2005	Ontario Government Scholarship, Canada
2003	PhD Entrance Scholarship, York University, Canada
2002-2007	International Scholarship, York University, Canada
2002	Best Philosophy Teacher, Pontificia Universidad Javeriana, Bogotá, Colombia

## **SERVICE TO THE UNIVERSITY**

### **Chair of Faculty Senate, Sam Houston State University**

Duties include working with the Office of the President and the Office of the Provost in the issues that affect SHSU faculty and students, policy review, representing the interests of faculty members, and participating in various university-wide committees such as Academic Council and President's Council.

### **Philosophy Program Coordinator, Psychology and Philosophy Department.**

Duties include, scheduling of classes offered by the Philosophy Program, coordinating assessments for the Southern Association of Colleges (SACS) accreditation agency, chairing tenure and promotion Philosophy faculty committees, advisor for Philosophy majors and minors, chairing search committees, developing a new Minor in Ethics, and overseeing recruiting efforts.

### **Faculty Senate representative for proposal on Family Developmental Leave**

Duties include working with HR, faculty, and administration to develop a proposal aimed at implementing a new policy on parental leave for faculty.

### **Selected Service Duties**

Faculty Senate faculty representative for the College of Humanities and Social Sciences

Member of the Advisory Committee for the Honors College, SHSU

Member of the Advisory Committee for the ELITE program.

The purpose of the SHSU ELITE Program is to enable African American and Hispanic men to transcend the status quo in minority male academic, professional, and personal success.

## **SERVICE TO THE PROFESSION**

### **Guest Editor**

The *International Journal of Comparative Psychology* (IJCP) Special Issue: Expanding Perception: The Role of Touch in Comparative Psychology

### ***Philpapers***

Editor

Behavioral Ecology

### **Reviewer**

*Frontiers*

*Philosophical Psychology*

*International Journal of Biodiversity and Conservation.*

*Biology and Philosophy*

*Society for Philosophy and Psychology (SPP)*

*Southern Society for Philosophy and Psychology (SSPP)*

## **TEACHING EXPERIENCE**

### **Student Supervision**

#### **Faculty Advisor McNair Project**

2021-2022	“Defining the Evolutionary Organism: Application of a Pluralism and Conceptual Space Hybridize Mode”
2019-2020	“The Avenue of Agency”
2018-2019	“Hope, Grief, and Moral Status in Non-human Animals”
2016-2017	“Moral Implications in the Development of Artificial Intelligence (A.I.)”

The Ronald E. McNair Postbaccalaureate Achievement Program is designed to provide talented low-income/ first generation and ethnic minority undergraduate students with effective preparation for doctoral study by providing opportunities for undergraduates to define their goals, develop research skills and engage in research.

### **Organizations**

Member of the American Society for Bioethics and Humanities