

Camilo Hurtado-Parrado, MS, PhD, BCBA-D

EDUCATION

- PhD** **Psychology, University of Manitoba (Winnipeg, Canada).** **2014**
Thesis: *Aversive control of *Betta splendens* behavior using water disturbances: effects of signaled and unsignaled free-operant avoidance, escape, and punishment contingencies*
Advisor: Dr. Joseph Pear
- MS** **Behavior Analysis, Psychology, Universidad Nacional de Colombia (Bogotá)** **2008**
Thesis: *Effects of reference-construction training on a learning transference test.*
Advisor: Dr. Telmo Peña-Correal
- BS** **Psychology, Universidad Nacional de Colombia (Bogotá)** **2004**
Thesis: *Effects of type and order of the transference tests on performance during a matching to sample task.*
Advisor: Dr. Telmo Peña-Correal

RESEARCH INTERESTS

My research focuses on the understanding of human and nonhuman learning and behavioural processes, especially how they are regulated by aversive events (e.g., effects of aversive stimuli on memory, self-control, problem solving, verbal behavior, rule following, and conciliation). My ongoing agenda entails five areas, namely (a) interactions between verbal and nonverbal behavior (e.g., how aversive consequences affect the consistency between saying and doing); (b) measurement of emotion regulation strategies and how they affect other behavioral processes (e.g., effects of reappraisal-based regulation on conciliation and self-control); (c) assessing and improving the effectiveness of behavioral teaching methods (e.g., evaluating the effectiveness of a method called *Interteaching* and how it could reduce procrastination in college students); (d) establishment and maintenance of complex behavior via stressful events (e.g., conditional discriminations regulated by aversive consequences); and (e) analysis of conceptual, historical, and disciplinary aspects of psychology (e.g., history and need for alternative research methods in psychology).

REFEREED JOURNAL ARTICLES

Hurtado-Parrado, C., Pfaller-Sadovsky, N., Medina, L., Gayman, C. Rost, K. & Schofill, D. (accepted). A systematic review and meta-analysis on the effectiveness of interteaching. *Journal of Behavioral Education*.

Gantiva, C., Araujo, A., Castillo, K., Claro, L., & Hurtado-Parrado, C. (2021). Physiological and affective responses to emoji faces: Effects on facial muscle activity, skin conductance, heart rate, and self-reported affect. *Biological Psychology*, 163, 108142. <https://doi.org/10.1016/j.biopsycho.2021.108142>

- Acevedo-Triana, C., Córdoba-Patiño, D., Muñoz-Olano, J., Cifuentes, J., Melgarejo, V., Rodríguez Wilchez, O., Hurtado-Parrado, C. (2021). Comparing the short and long-term effects of acute moderate-intensity exercise on mnemonic similarity and emotional memory tasks. *Acta Neuropsychologica*, 19(1), 33-61
<http://dx.doi.org/10.5604/01.3001.0014.6997>
- Virues-Ortega, J., Hurtado-Parrado, C., Arias-Higuera, M., & Iwata, B. (2021). Nathan H. Azrin: A Case Study in Research Translation in Behavior Science. *Perspectives on Behavior Science*. <https://doi.org/10.1007/s40614-020-00278-4>
- Orduz-Bastidas, L., Martínez-Martínez, A. M., Hurtado-Parrado, C., López-López, W., & Acevedo-Triana, C. (2020). Parkinson's disease patients' performance in Theory of Mind (ToM) and decision-making tasks with and without Deep Brain Stimulation (DBS). *Terapia Psicológica*, 38(2), 259-282. <http://dx.doi.org/10.4067/S0718-48082020000200259>
- Pfaller-Sadovsky, N., Hurtado-Parrado, C., Cardillo, D., Medina, L. G., & Friedman, S. G. (2020). What's in a click? The efficacy of conditioned reinforcement in applied animal training: a systematic review and meta-analysis. *Animals*, 10(10), 1-31.
<https://doi.org/10.3390/ani10101757>
- Pfaller-Sadovsky, N. & Hurtado-Parrado, C. (2020). A cultural selection analysis of human-dog interactions – a primer. *European Journal of Behavior Analysis*.
<https://doi.org/10.1080/15021149.2020.1791682>
- Acevedo-Triana, Rico, J. L., Ortega, L. A., Cardenas, M. A. N., Cardenas, F., Rojas, M., Forigua, J. C., Cifuentes, J., & Hurtado-Parrado, C. (2020). Fear incubation using an extended fear-conditioning protocol for rats. *Journal of Visualized Experiments (JoVE)*, 162(e60537), 1-12. <https://doi.org/10.3791/60537>
- Hurtado-Parrado, C., Gantiva, C., Gómez-A, A., Cuenya, L., Ortega, L., & Rico, J. L. (2020). Editorial: Research on emotion and learning: contributions from Latin America. *Frontiers in Psychology*, 11, 585-590.
<https://doi.org/10.3389/fpsyg.2020.00585>
- Hurtado-Parrado, C., Arias-Higuera, M., Sierra, M. C., López-López, W., Velásquez, L., Moncaleano, C., Parra, M. F., & Gantiva, C. A. (2020). Emotional response to pictures of the armed conflict in Colombia. *Peace and Conflict: Journal of Peace Psychology*, 6(2), 202–212. doi: 10.1037/pac0000451
- Pfaller-Sadovsky, N., Arnott, G., Hurtado-Parrado, C. (2019). Using principles from applied behavior analysis to address an undesired behavior: Functional analysis and treatment of jumping up in companion dogs. *Animals*, 9(1091), 1-33.
<https://doi.org/10.3390/ani9121091>
- Hurtado-Parrado, C., Acevedo-Triana, C., & Pear, J. (2019). Swimming against the current": Behavioral data of *Betta splendens* during an escape and avoidance task with water flows as the aversive stimulus. *Data in Brief*, 25, 1-6.
<https://doi.org/10.1016/j.dib.2019.104260>

- Pfaller-Sadovsky, N., Medina, L. G., Dillenburger, K. & Hurtado-Parrado, C. (2019). We don't train in vain: a systematic review and meta-analysis of human and canine caregiver training. *Journal of Applied Animal Welfare Science*.
<https://doi.org/10.1080/10888705.2019.1646134>
- Hurtado-Parrado, C., Sierra-Puentes, M., Morales, A., Gutiérrez-Villamarín, D., Velásquez, Correa-Chica, A., Rincón, J. C., Henao, K., Castañeda, J. G., El Hazzouri, M., & López-López, W. (2019). Emotion regulation and attitudes toward conflict in Colombia: effects of reappraisal training on negative emotions and support for conciliatory and aggressive statements. *Frontiers in Psychology*, 10(908), 1-9.
<https://doi.org/10.3389/fpsyg.2019.00908>
- Rico, J., Muñoz, L. F., Lamprea, M., Hurtado-Parrado, C. (2019). Ethopharmacological analysis of gerbils exposed to an extended elevated plus-maze session. *Frontiers in Psychology*, 10(748), 1-10. <https://doi.org/10.3389/fpsyg.2019.00748>
- Acevedo-Triana, C., Torres, M., Aguilar-Bustamante, C., Hurtado-Parrado, C., Silva, L. M., López-López, W. (2018). Analysis of Productivity and Impact of Colombian Journals in Psychology between 2000 and 2016. *Revista Latinoamericana de Psicología*, 50(3), 145-159. <http://dx.doi.org/10.14349/rlp.2018.v50.n3.2>
- Hurtado-Parrado, C., Acevedo-Triana, C., & Pear, J. (2019). Aversive control of *beta splendens* behavior using water disturbances: effects of signaled and unsignaled free-operant avoidance and escape contingencies. *Behavioral Processes*, 158(1), 18-31. <https://doi.org/10.1016/j.beproc.2018.10.021>
- Hurtado-Parrado, C., Cardona-Zea, A., Arias-Higuera, M., Cifuentes, J., Muñoz, A., Rico, J. & Acevedo-Triana, C. (2018). Behavioral Patterns of Laboratory Mongolian Gerbils by Sex and Housing Condition: A Case Study with an Emphasis on Sleeping Patterns. *Journal of Veterinary Behavior: Clinical Applications and Research*, 30, 68-79. <https://doi.org/10.1016/j.jveb.2018.12.004>
- Hurtado-Parrado, C., González, C., Arias, M. Ortiz, A., Cardona, A., Medina, L., García, L., Sánchez, C., Cifuentes, J., Forigua, J., Acevedo-Triana, C., & Rico, J. L. (2017). Assessing Mongolian gerbil emotional behavior: Effects of two shock intensities and response-independent shocks during an extended inhibitory-avoidance task. *PeerJ*, 5(e4009), 1- 25. <http://dx.doi.org/10.7717/peerj.4009>
- Pfaller-Sadovsky, N., Medina, L., & Hurtado-Parrado, C. (2017). It's mine! Using backward chaining as a treatment of object guarding in companion dogs (*Canis lupus familiaris*). *Journal of Veterinary Behavior*, 22, 57-65. doi:
<http://dx.doi.org/10.1016/j.jveb.2017.08.002>
- Muñoz-Olano, J. F., & Hurtado-Parrado, C. (2017). Effects of goal clarification on impulsivity and academic procrastination of college students. *Revista Latinoamericana de Psicología*, 49, 173-181.
<https://doi.org/10.1016/j.rlp.2017.03.001>
- Rico J. L., Hurtado-Parrado, C., Vásquez-Sepúlveda, J., Fonseca, J., & Cardona, A. (2016). Time spent in the central area of the elevated plus-maze correlates with impulsivity-related measures during a temporally-defined schedule of

reinforcement. *Universitas Psychologica*, 15(5), 1-9.
<http://dx.doi.org/10.11144/Javeriana.upsy15-5.tcae>

Robayo-Castro, B., Rico, J. L., Hurtado-Parrado, C., & Ortega, L. (2016). Impacto y calidad de la productividad académica de los investigadores en Colombia en neurociencia comportamental utilizando modelos animales [*Productivity, impact and academic quality of Colombian researchers that contribute to the field of Behavioral neuroscience with animal models*]. *Universitas Psychologica*, 15(5), 1-12. <http://dx.doi.org/10.11144/Javeriana.upsy15-5.icpa>

Hurtado-Parrado, C., Arias, M., González, C., Bohorquez, M., Henao, K., García, E., & Zapata, A. (2016). Verbal-Nonverbal interactions during a computerized adaptation of Catania et al.'s (1982) experimental task: The effects of embedding an aversive contingency on the nonverbal component. *Learning and Motivation*, 55, 13-30.
<https://doi.org/10.1016/j.lmot.2016.05.006>

Hurtado-Parrado, C., Gonzalez, C.H., Moreno, L. M., Gonzalez, C., Arias, M., Beltran, L., & Cardona, S. (2015). A behavioral catalogue of *Meriones unguiculatus* f. dom. (Mongolian gerbil) and wild species in captivity and in natural conditions based on a systematic literature review. *Journal of Ethology*, 33(2), 65 - 86.
<https://doi.org/10.1007/s10164-015-0421-0>

Hurtado-Parrado, C. & Lopez-Lopez, W. (2015). Single-Case Research Methods: History and suitability for a psychological science in need of alternatives. *Integrative Psychological and Behavioral Science*, 49(3), 323-349.
<https://doi.org/10.1007/s12124-014-9290-2>

Virúés-Ortega, J., Pritchard, K., Grant, R. L., North, S., Hurtado-Parrado, C., Lee, M. S. H., ... Yu, C. T. (2014). Clinical decision making and preference assessment for individuals with intellectual and developmental disabilities. *American Journal on Intellectual and Developmental Disabilities*, 119(2), 151–70.
<https://doi.org/10.1352/1944-7558-119.2.151>

Virúes-Ortega, J., Hurtado-Parrado, C., Cox, A., & Pear, J. J. (2014). Analysis of the interaction between experimental and applied behavior analysis. *Journal of Applied Behavior Analysis*, 47(2), 380-403. <https://doi.org/10.1002/jaba.124>

Virúes-Ortega, J., Hurtado-Parrado, C., Martin, T. L., & Julio, F. (2012). Psycho-neural identity as the basis for empirical research and theorization in psychology: An interview with Mario A. Bunge. *Science and Education*, 21(10), 1527-1534.
<https://doi.org/10.1007/s11191-011-9418-4>

Hurtado-Parrado, C., Virúes-Ortega, J., Martin, T. L., & Julio, F. (2011). Causes of behavioral processes: An interview with Mario A. Bunge. *Universitas Psychologica*, 10(3), 965-972. <http://dx.doi.org/10.11144/Javeriana.upsy10-3.cobp>

Virúes-Ortega, J., Pear, J. J., & Hurtado-Parrado, C. (2011). The scientometric structure of applied behavior analysis. *European Journal of Behavior Analysis*, 12(1), 263 - 275. <https://doi.org/10.1080/15021149.2011.11434369>

- Hurtado-Parrado, C. (2010). Neuronal mechanisms of learning in teleost fish. *Universitas Psychologica*, 9(3), 663-678. <http://dx.doi.org/10.11144/Javeriana.upsy9-3.nmol>
- López López, W., Vera Villarroel, P., Pérez-Acosta, A. M., Aguilar Bustamante, M. C., Hurtado-Parrado, C. & Valenzuela, P. (2010). B. F. Skinner's legacy twenty years after (1990-2010): Behavior analysis in Iberoamerica. *Avances en Psicología Latinoamericana*, 28, 205-218. <http://ref.scielo.org/22k6ps>
- Hurtado-Parrado, C., Robayo, M. & Peña-Correal, T. (2007). Efectos en la ejecución durante una tarea de igualación a la muestra según el tipo y orden de exposición a las pruebas de transferencia [Effects on performance during a matching to sample task due to the type and order of exposition to the transference test]. *Universitas Psychologica*, 6(2), 425-440. <http://dx.doi.org/10.11144/Javeriana.upsy6-2.eeti>
- López, W., Pérez-Acosta, A. Gamboa, C. Hurtado-Parrado, C. & Aguilar, M. C. (2006). Análisis del comportamiento en Colombia: antecedentes y perspectivas [Behavior analysis in Colombia: antecedents and perspectives]. *Avances en Psicología Latinoamericana*, 24, 59-69. <https://revistas.urosario.edu.co/index.php/apl/article/view/1230/1098>
- Hurtado-Parrado, C. (2006). El conductismo y algunas implicaciones de lo que significa ser conductista hoy [Behaviorism and some implications of being a behaviorist today]. *Diversitas*, 2(2), 321-328. <https://www.redalyc.org/pdf/679/67920211.pdf>
- López, W. & Hurtado-Parrado, C. (2005). Murray Sidman. *Revista Latinoamericana de Psicología*, 37(2), 423-425. <https://www.redalyc.org/pdf/805/80537222.pdf>
- Hurtado-Parrado, C. & Robayo, M. (2005). Efectos en la adquisición y transferencia de discriminaciones condicionales de segundo orden debidos a variaciones en las relaciones entrenadas [Effects in transference and acquisition of second order conditional discriminations due to the type of trained relations]. *Diversitas*, 1(1), 46-62. <http://ref.scielo.org/pv8cy5>
- Bayona, J., Hurtado, C., Ruiz, I., Hoyos, A., & Gantiva, C., (2005). Actitudes Frente a la Venta y Consumo de Sustancias Psicoactivas en la Universidad Nacional de Colombia [Attitudes Toward the Sale and Consumption of Psychoactive Substances into the National University of Colombia]. *Revista Interamericana de Psicología*, 39, 159-168. <https://www.redalyc.org/articulo.oa?id=284/28439116>
- Vargas, M. & Hurtado-Parrado, C. (2003). Aplicación de un procedimiento experimental de equivalencia de estímulos con palabras en tres idiomas [Use of an equivalence stimulus experimental procedure with words in three idioms]. *Psiké*, 1, 39-48.
- Hurtado-Parrado, C. (2003). Donald Baer (1931-2002). *Revista Latinoamericana de Psicología*, 35, 355-356. <https://www.redalyc.org/pdf/805/80535317.pdf>
- Hurtado-Parrado, C. (2003). ¿Conductista yo? [Am I a Behaviorist?] *De-mente*, 1, 23-26.
- Hurtado-Parrado, C. (2003) Patrones de Forrajeo en el oscar (*Astronotus ocellatus*): preferencias por el tamaño de presa. [Foraging patterns in the Oscar Fish (*Astronotus ocellatus*): preferences for the size of the prey]. *Laberinto: Revista del*

Rodríguez, G. Muñoz, T & Hurtado-Parrado, C. (2002) Análisis de los patrones de forrajeo de una pareja de gerbos macho (*Meriones unguiculatus*) bajo condiciones de privación y abundancia de alimento [Foraging patterns analysis of two male gerbils (*meriones unguiculatus*) under conditions of food abundance and deprivation]. *Laberinto: Revista del Laboratorio de Aprendizaje y Comportamiento Animal - Universidad Nacional de Colombia*. Número 3. <https://revistas.unal.edu.co/index.php/lab/article/view/47328/48531>

Hurtado-Parrado, C. & Trebilcock, E. (2001, December). El mito de la Enfermedad mental [The myth of mental illness]. *Boletín Electrónico de la Asociación para el Avance de las Ciencias del Comportamiento - ABA Colombia*. <https://abacolombia.org.co/ABAColombia/?q=node/70>

BOOK CHAPTERS

López-López, W., Caycedo, C., Acevedo-Triana, C., Hurtado-Parrado, C., Silva, L. M., Aguilar-Bustamante, M. C. (2018). Training, academic, and professional development of Psychology in Colombia: Challenges and Perspectives. Book Chapter in *Teaching Psychology around the World*. Newcastle, UK: Cambridge Scholars Publishing. <https://doi.org/10.6084/m9.figshare.13384484.v1>

Hurtado-Parrado, C., Virues-Ortega, J., Arias-Higuera, M., & Iwata, B. (2019). Nathan H. Azrin (1930-2013): Seis décadas de contribuições à análise do comportamento [Nathan H. Azrin (1930-2013): six decades of contributions to behavior analysis]. In D. Zilio & K. Carrara (eds). *Behaviorismos: reflexões históricas e conceituais* (vol. 3) (pp. 19-56). São Paulo: Centro Paradigma de Ciências. <https://doi.org/10.6084/m9.figshare.12612563.v1>

Hurtado-Parrado, C., Gantiva, C., Ortega, L. A., Gómez-A, A., Cuenya, L., Rico, J. L., eds. (2020). *Research on emotion and learning: contributions from Latin America*. Lausanne, Switzerland: Frontiers Media SA. <https://doi.org/10.3389/978-2-88963-532-0>

Hurtado-Parrado, C. (2018). Prologue. In J. F. Muñoz-Olano & C. Acevedo-Triana. *Texto guía en el Laboratorio de procesos psicológicos [Psychological processes laboratory manual]* (pp. 1-3). Tunja: UPTC.

Hurtado-Parrado, C. (2009). A Non-Cognitive Alternative for the Study of Cognition: An Interbehavioral Proposal. In T. Teo, P. Stenner & A. Rutherford (Eds.). *Varieties of Theoretical Psychology - ISTP 2007 - International Philosophical and Practical Concerns* (pp. 340-348). Toronto: Captus University Publication. <https://doi.org/10.13140/RG.2.1.1492.2964>

Hurtado-Parrado, C. Book review: Mares, C. G., & Guevara B. Y. (Eds.) (2001). *Psicología interconductual; volumen I Avances en la Investigación Básica [Interbehavioral psychology: Volume 1. Advances in Basic Research]*. México: Universidad Nacional Autónoma de México, Facultad de Estudios Superiores Iztacala, pp. 217.

RESEARCH UNDER REVIEW

Hurtado-Parrado, C., Cifuentes, J., & Arias-Higuera, M. (under review). Effects of different types of contingencies on the acquisition of aversive conditional discriminations. Submitted to *Behavioral Processes*.

Jimenez-Martinez, M., Acevedo-Triana, C., Gonzalez, C., Juez, S., Soto, K., Ochoa, S., Chaves, P., Tobon, P., Rincon, J., Cifuentes, J., Hurtado-Parrado, C. (under review). Temporal underestimation of events improves performance during memory tasks. Submitted to *Frontiers in Psychology*.

HONORS & AWARDS

International Development Grant – Society for the Advancement of Behavior Analysis (SABA). 2018

Distinguished researcher award “Juan Alberto Aragon” – Fundación Universitaria Konrad Lorenz. 2017.

Leading researcher - Fundación Universitaria Konrad Lorenz. 2016, 2018.

Natural Sciences and Engineering Research Council of Canada – NSERC – Postgraduate Fellowship Award. 2009-2011.

University of Manitoba Graduate - Graduate Student Travel Award – 2008, 2009.

University of Manitoba Graduate Fellowship (UMGF) – 2008 - 2009.

Best Undergraduate Research Award by the Interamerican Society of Psychology – 2003.

Scholarships Program for outstanding graduate students (Universidad Nacional de Colombia) – 2006.

Public recognition by the National Ministry of Education of Colombia: top ten students on the Psychology program – 2003.

RESEARCH EXPERIENCE

Troy University, Department of Psychology

2018 – 2021. Aversive control, self-control and verbal-nonverbal interactions: Effects of noncontingent aversive stimulation on self-control and shaping or instruction of verbal reports.

Funding: Troy University Faculty Development Committee Grant – College of Education Research and Development Grant.

2018 – 2021. Systematic Review and meta-analysis on the effectiveness of interteaching. Funding: Troy University Faculty Development Committee Grant.

Konrad Lorenz Fundación Universitaria, Faculty of Psychology

2018 – 2019. Emotion regulation and attitudes towards immigrants and ex-combatants of the Colombian armed conflict.

Funded by COLCIENCIAS (Colombian Administrative Department of Science, Technology and Innovation) and Konrad Lorenz University via the “Junior Researcher” program 2018-2019.

2017 – 2018. Symbolic learning via stressful events: effects of different types of aversive visual stimuli and role of different emotion regulation strategies.

Funded by COLCIENCIAS (Colombian Administrative Department of Science, Technology and Innovation) and Konrad Lorenz University via the “Junior Researcher” program 2017-2018.

2017 – 2018. Aversive control, self-control and verbal-nonverbal interactions: Effects of noncontingent aversive stimulation on self-control and shaping or instruction of verbal reports. Funding: Konrad Lorenz University Research Center for Psychological Research.

2017 – 2018. Effects of punishment on behavioral persistence (in collaboration with Dr. P. Dillon and D. Cortés, Universidad de San Buenaventura, Bogotá, Colombia). Funding: Konrad Lorenz University Research Center for Psychological Research.

2016 – 2018. Effects of exercise on adult neurogenesis and emotional memory in rats. Funding: Konrad Lorenz University Research Center for Psychological Research & Universidad Javeriana (Colombia).

2015 – 2018. Studies on aversive control of human and non-human behavior: (a) development of alternative and new experimental procedures, (b) behavioral patterns produced by repeated exposure to contingent and non-contingent aversive stimulation, and (c) effect of aversive contingencies on verbal-nonverbal behavior interactions.

Funding: Konrad Lorenz University Research Center for Psychological Research.

2013 – 2018. Verbal and non-verbal interactions during a computerized adaptation of the task designed by Catania et al. (1982): effects of shaping automatically the verbal reports, embedding an aversive contingency, instructing verbal and nonverbal behavior, and reversing contingencies.

Funding: Konrad Lorenz University Research Center for Psychological Research.

2012 – 2014. Behavioral patterns of *Meriones unguiculatus* (Mongolian gerbil) under different housing conditions and during repeated and periodic exposures to signaled and unsignaled non-contingent aversive stimulus.
Funding: Konrad Lorenz University Research Center for Psychological Research.

University of Auckland (New Zealand)

2017. Visiting scholar at Dr. Javier Virués-Ortega's laboratory (Abril – June 2017).

University of Manitoba, Department of Psychology. Operant Behavior Laboratory

2007 – 2014. PhD research. Aversive Control of *Betta splendens* Behavior.
Advisor: Joseph Pear.

Universidad Nacional de Colombia, Department of Psychology (Bogotá, Colombia)

2005 – 2008. MSc Research. Effects of reference construction training over a subsequent transference test. Advisor: Telmo E. Peña-Correal

2003 – 2004. Honors thesis. Effects on performance during a matching to sample task due to the type and order of exposition to the transference test.
Advisor: Telmo E. Peña Correal.

2001 – 2004. Coordinator of the project: Psychological and health profile of the Human Sciences Faculty Students.

2001 – 2003. Coordinator of the project: Attitudes towards sale and consumption of psychoactive substances inside the National University of Colombia.

2002 - 2009. Member of the research group "Analysis of Symbolic Behavior". Endorsed by COLCIENCIAS (Colombian Institute for the Development of Science and Technology).

EDITORIAL EXPERIENCE

2017 – Guest associate editor journal *Frontiers in Psychology/Education*
2017 – Scientific committee *Universitas Psychologica*
2014 – Peer Reviewer for *Journal of Applied Behavior Analysis, Universitas Psychologica, Suma Psychologica*.
2017 – 2020 Editor special issue *Frontiers in Psychology/Education* "Research on Emotion and Learning: Contributions from Latin America"
2005 – 2008 Editorial Coordinator of the journal *Universitas Psychologica*.
2004 – 2008 Electronic edition of the journals *Revista Latinoamericana de Psicología* and *Avances en Psicología Latinoamericana*.
1999 – 2004 Co-founder and editor of the journal *Laberinto: Revista del Laboratorio de Aprendizaje y Comportamiento Animal* [Journal of the Animal Learning and Behavior Laboratory].

MEMBERSHIPS AND CREDENTIALS

Behavior Analyst Certification Board (BCBA-D – since 2019)
Animal Behavior Society (ABS)
APS (Association for Psychological Science)
American Psychological Association (APA)
AALAS (American Association for Laboratory Animal Science).
COLPSIC (Colombian Board of Psychologists)
ABA International (Association for Behavior Analysis)
ABA Colombia - Affiliated Chapter of the Association for Behavior Analysis.

PRESENTATIONS

Hurtado-Parrado, C., Medina, L., Cifuentes, J., & Pfaller-Sadovsky, N. (2020). “Now What?!” *Adaptations of Interteaching to Online Settings: A Tutorial and Ideas for Research*. Paper presented during the symposium “Using Interteaching Online: Research and Practice” held at the 47th Annual Convention of the Association for Behavior Analysis (Online, May 29, 2021).

Hurtado-Parrado, C. (2020). *Interteaching: un método de enseñanza conductual [Interteaching: A behavioral teaching method]*. Guest speaker during Congreso Desafíos de la Psicología, Universidad de Nariño, Colombia (December 4-5, 2020).

Hurtado-Parrado, C. (2020). *Interteaching: un método de enseñanza conductual basado en la evidencia [Interteaching: an evidence-based behavioral Teaching method]*. Paper presented during the 11th Meeting of the Behavior Sciences Researchers, Universidad de la Sabana, Colombia (August 14-15, 2020).

Hurtado-Parrado, C., Pfaller-Sadovsky, N., Medina, L., Gayman, C. Rost, K. & Schofill, D. (2020). *A systematic review and metanalysis on the effectiveness of interteaching*. Paper presented during the symposium “Empowering the Learner: Using Interteaching to Improve Higher Education” held at the 46th Annual Convention Association for Behavior Analysis (Washington, USA, May 24, 2020).

Hurtado-Parrado, C. (2019). *Aversive control of impulsive behavior: effects of noncontingent aversive visual stimulation*. Paper presented during the symposium “Social foraging, sunk costs, and aversive control of impulsivity: understanding human choice through different experimental approaches” held at the 45th Annual Convention Association for Behavior Analysis (Chicago, USA, May 27, 2019).

Hurtado-Parrado, C. Segura, A. Cifuentes, J. Gomez, A., Forigua, J. C., Velázquez, J. C., Amortegui, M., Tovar, D., Rodriguez, W., Quintana, S. (2019). *Effects of non-contingent shocks on self-control behavior and preference reversal in Wistar rats*. Poster presented during the 2019 SQAB Annual Convention held in Chicago, USA in May 22, 2019.

Hurtado-Parrado, C. (2019). *The crisis of the methods in Psychology: null hypothesis significance tests, replicability, and generality*. Paper presented during the 10th Meeting of the Behavior Sciences Researchers, Universidad del Rosario, Bogota, DC, Colombia (April 6, 2019).

Hurtado-Parrado, C., Cifuentes, J., Medina, L., & Arias-Higuera, M. (2018). *Conditional discrimination and aversive control*. Paper presented during the 44th ABAi convention San Diego, CA, May 24-28, 2018.

Pfaller-Sadovsky, N., Dillenburger, K., Hurtado-Parrado, C., & Medina, L. (2018). *Does Training Matter: A Systematic Review of Caregiver Training Within Human-Canine and Human-Human Dyads*. Poster presented during the 44th ABAi convention San Diego, CA, May 24-28, 2018.

Hurtado-Parrado, C., Gomez, A., Cifuentes, J., & Segura, A. (2018). *Effects of Non-Contingent Aversive Stimulation on Self-Control in Rats*. Poster presented during the 41st annual meeting of the Society for the Quantitative Analyses of Behavior (SQAB), San Diego, CA, May 24-25, 2018

Soares-Filho, P. S. D., Cortes-Patino, D., Forigua, J. C., Fresneda, N., Cifuentes, J., Tovar, D., Amortegui, M., Quintana, S., Hurtado-Parrado, C. (2018). Effects of Different Probabilities of Aversive Stimuli on Resistance to Extinction. Poster presented during the 41st annual meeting of the Society for the Quantitative Analyses of Behavior (SQAB), San Diego, CA, May 24-25, 2018

Hurtado-Parrado, C. (2017). *Mentiras, superstición y regulación emocional: control aversivo de la conducta* [Lies, superstition and emotion regulation: aversive control of Behavior]. Invited presentation at Congreso Nacional de Psicología, Medellín, August 2017.

Hurtado-Parrado, C. (2017). *Regulación de la conducta por eventos aversivos: investigación básica y extensiones* [Behavior regulation by aversive events: basic research and extensions]. Paper presented during the Congreso Nacional de Psicología, Medellín, Colombia, August 2017.

Cifuentes, J. & Hurtado-Parrado, C. (2017). *Efectos de diferentes tipos de contingencias en adquisición de discriminaciones condicionales* [Effects of different types of contingencies on the acquisition of conditional discriminations]. Paper presented during the Congreso Nacional de Psicología, Medellín, Colombia, August 2017.

Hurtado-Parrado, C., Cardona, A., Arias-Higuera, M., Zapata, A., García, E., Henao, K., Bohórquez, C., Muñoz, A. (2017). *¿Mejor solo que acompañado? Patrones de comportamiento de jerbos de Mongolia alojados en condiciones de laboratorio grupales e individuales* [Better alone than in company? Behavioral patterns of Mongolian gerbils housed in groups and individually]. Paper presented during the National Congress of Psychology, Medellín, Colombia, August 2017.

Hurtado-Parrado, C. (2017). *Metodologías para el estudio de la regulación de la conducta por eventos aversivos: Efectos del castigo en las interacciones decir-hacer* [Methodologies for the study of aversive control of behavior: effects of punishment on say-do interactions]. Paper presented during the Congreso de Innovaciones en Psicología y Salud Mental, Tunja, Colombia, June 2017.

Hurtado-Parrado, C. (2017). *Regulación de la conducta por eventos aversivos: investigación básica y posibles extensiones* [Aversive control of behavior: basic research and potential extensions]. Paper presented during the VIII Encuentro de investigadores en

ciencias del comportamiento. Universidad San Buenaventura, Bogotá, Colombia April 2017.

Hurtado-Parrado, C., Arias, M., Gonzales, C., Hurtado, A., Parra, M., Cifuentes, J., & Medina, L. (2017). *Effects of punishment on verbal-nonverbal interactions: shaped verbal reports*. 43rd ABAi Annual Convention, Denver, CO, May 25 – 29, 2017.

Hurtado-Parrado, C., Arias-Higuera, M., González, C., Hurtado, A., & Cardona, A. (2016). *Studies on aversive control: Development of alternative experimental procedures, behavioral patterning produced by aversive contingencies, and effects of punishment on verbal-nonverbal interactions*. 42nd ABAi Annual Convention, Chicago, May 27 – 31, 2016.

Hurtado-Parrado, C., & Pear, J. (2015). *Aversive control of betta splendens behavior using water disturbances: effects of signaled and unsignaled free-operant avoidance, escape, and punishment contingencies*. Paper presented during ABAi 8th International Conference. Kyoto, Japan, Sept. 27-29, 2015.

Hurtado-Parrado, C., Gonzalez, C., Arias, M., Cardona, S., & Cardona, A. (2015). *How do Mongolian gerbils pass the time during aversive tasks? behavioral patterns produced by exposure to contingent and non-contingent aversive events*. Paper presented during ABAi 8th International Conference. Kyoto, Japan, Sept. 27-29, 2015.

Arias, M., Gonzalez, C. H., Moreno, L., Gonzalez, C., Beltran, L., & Hurtado-Parrado, C. (2014). *A method for developing a behavioral catalogue of Meriones unguiculatus in natural, seminatural, and captivity conditions*. Poster presented at the 17th Meeting of the international society for comparative psychology. September 2014.

Gonzalez, C., Arias, M., Cardona, S., & Hurtado-Parrado, C. (2014). *A method for studying Mongolian gerbils' behavioral patterns produced by periodic non-contingent aversive stimulation*. Poster presented at the 17th Meeting of the international society for comparative psychology, Bogota (Colombia), September 2014.

Vasquez, J., Fonseca, J., Hurtado-Parrado, C., Rico, J. (2014). *Relation between anxiety- and impulsivity-related measures in rats exposed to the elevated plus-maze and operant tasks*. Poster presented at the 17th Meeting of the international society for comparative psychology. September 2014.

Hurtado-Parrado, C., Arias, M., Gonzalez, C., Garcia, E., Henano, K., & Bohorquez, M. (2014). *Verbal and Non-Verbal Behavior Interactions in a Computerized Adaptation of the Task Designed by Catania et al. (1982): Effects of Embedding an Aversive Contingency*. Poster presented at the 40th ABAi Annual Convention, Chicago, May 2014.

Hurtado-Parrado, C., Gonzalez, C., Arias, M., & Cardona, S. (2014). *A method for studying Mongolian gerbils' behavioral patterns produced by repeated and periodic exposure to non-contingent aversive stimulation*. Poster presented at the Annual Symposium of the Society for Quantitative Analysis of Behavior (SQAB), Chicago, May 2014.

Rico, J., Hurtado-Parrado, C., & Garcia, M. (2013). *Contribuciones del uso de modelos animales al estudio de los procesos psicológicos* [Contributions to the use of animal models for the study of psychological processes]. Paper presented during the III Congreso Internacional de Psicología Colpsic-Ascofapsi, Bogota (Colombia), September 2013.

Hurtado-Parrado, C., Arias, M., Gonzalez, C., Garcia, E., Henano, K., & Bohorquez, M. (2013). *Interacciones entre conducta verbal y no verbal en una adaptación computarizada de la tarea diseñada por Catania et al. (1982): efectos del moldeamiento automatizado de los reportes verbales y de integrar una contingencia aversiva*. Paper presented during the III Congreso Internacional de Psicología Colpsic-Ascofapsi, Bogota (Colombia), September 2013.

Virués-Ortega, J., Cox, A., Hurtado-Parrado, C., & Pear, J.J. (2013). *Topics Driving Translational Research in Behavior Analysis*. Poster presented at the 39th ABAI Annual Convention, Minneapolis, May, 2013.

Hurtado-Parrado, C. (2011). *Single-Case Methods: Their History and Suitability for a Psychological Science in Need of Alternatives*. Paper presented during the 6th ABAI International Conference, Granada (Spain), November, 2011.

Virués-Ortega, J. Hurtado-Parrado, C., Pear, J. (2011). *The Scientometric Structure of Applied Behavior Analysis*. Poster presented at the 37th ABAI Annual Convention, Denver, May, 2011.

Hurtado-Parrado, H. C., Pear, J. J., & Khattiyakornjaroon, P. (2010). *Aversive control of Betta splendens behavior using water disturbance: replication of the aversive function of water flows and learning under a punishment contingency*. Poster presented at the ABAI 36th Annual Convention, San Antonio, Texas, May 28 - June 1, 2010.

Guest speaker at the Research Center for Behavioral Studies and Investigations (Centro de Estudios e Investigaciones del Comportamiento), Universidad de Guadalajara, México. Title of the presentation: *Studies on aversive control of behavior using Betta splendens fish*. November, 2010.

Hurtado-Parrado, H. C., Pear, J. J., & Froese, K. (2009). *Water disturbance as a form of aversive stimulation for Siamese fighting fish (Betta splendens)*. Poster accepted for the ABAI 5th International Conference. Oslo, Norway, August 7-10.

Guest speaker for the First Colombian International Congress of Psychology. Bogotá, Colombia, August 21-23, 2009. *Un análisis de la situación del análisis del comportamiento hoy: tendencias y algunas alternativas de investigación*.
[An analysis of today's situation of Behavior Analysis: research trends and alternatives]

Pear, J. J., Martin, T. L., Sales, T. C., & Hurtado-Parrado, H. C. (2008). *A Suppressive Effect of Light in Betta splendens*. Chicago, May 22-24. Poster accepted for the 31st Annual Meeting of the Society for the Quantitative Analyses of Behavior.

Hurtado-Parrado, C. *A conceptual and Methodological Alternative for Studying Referential Behavior*. ABAI 5th International Conference. Oslo, Norway, August 7-10.

Hurtado-Parrado, C. & Peña-Correal, T. *A methodological alternative for the study of referential behavior*. Research report presented at the 3rd Annual MABA Conference. October, 18, 2008.

Hurtado-Parrado, C. & Peña-Correal, T. (2008). *A conceptual and methodological alternative for studying referential behavior*. Paper presented at the XXIX International Congress of Psychology, Berlin (Germany), July, 20-25, 2008.

Pear, J. J., Martin, T. L., Sales, T. C., & Hurtado, H. C. (2008). *A Suppressive Effect of Light in Betta splendens*. Poster accepted for the 31st Annual Meeting of the Society for the Quantitative Analyses of Behavior. Chicago, May 22-24.

Hurtado-Parrado, C. (2007). *A non-cognitive alternative for the study of cognition: a behavior analytic proposal*. Paper presented at the Biannual Conference of the International Society for Theoretical Psychology (ISTP Conference, 2007): "Theoretical Psychology beyond Borders: Transdisciplinarity and Internationalization". June 18-22, 2007, Toronto, Canada.

Hurtado-Parrado, C. (2006). *Alternativas no cognoscitivas para el estudio de la inteligencia* [Non-cognitive alternatives for the study of intelligence]. Paper presented at the XVII Congreso Colombiano de Psicología. Medellín, Mayo 3 - 6 de 2006.

Hurtado-Parrado, C. (2004). *Effects in the performance during a matching to sample task due to the type and order of exposition to the transference test*. Poster presented at the II ABA International Conference. Campiñas, Brasil. August 12-15 2004.

Hurtado-Parrado, C. (2002). *Actitudes de los Estudiantes Frente a la Venta y Consumo de Sustancias Psicoactivas en el Campus Universitario de la Universidad Nacional de Colombia* [College students' attitudes toward the sell and consumption of psychoactive substances inside the campus of the Universidad Nacional de Colombia]. Poster presented at the III Congreso Iberoamericano de Psicología, Bogotá, julio de 2002.

UNIVERSITY TEACHING EXPERIENCE

Troy University

Instructor

Seminar in Special Topics: Behavior, Language and Thought	(graduate)	2021 -
Research Methods in Behavior Analysis	(graduate)	2020 -
Senior Seminar in Psychology	(undergraduate)	2020 -
Psychology of Learning	(undergraduate)	2018 -
Basic statistics	(undergraduate)	2018 -
Evaluation of Research for the Behavioral Treatment of Individuals with Autism and Developmental Delays	(undergraduate)	2018 -

Konrad Lorenz Fundación Universitaria (Bogotá, Colombia)

Instructor

Epistemology and Ethics	(graduate)	2017
Single-case research methods	(graduate)	2016
Seminar on Brain, Behavior, and Cognition	(graduate)	2016

Psychology of Language	(undergrad.)	2013-15
Learning	(graduate)	2015
Language and Thought	(graduate)	2005-07

Queen's University (Belfast, Ireland)

Tutor

Ethical and Professional Conduct	(graduate)	2015 -
Evaluation in Behavior Analysis	(graduate)	2016 -
Fundamental Elements of Behavior Change	(graduate)	2017-

University of Auckland (New Zealand)

Guest lecturer

Single-case research methods	(undergraduate)	2017
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ABA Spain (Chapter of the Association for Behavior Analysis international - ABAi)

Instructor for the online course of the MSc program in Applied Behavior Analysis

Stimulus equivalence	(graduate)	2017
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University of Manitoba (Winnipeg, Canada)

Instructor

Behavior Modification Principles	(undergraduate)	2009/12
Research Methods in Psychology	(undergraduate)	2010

Teaching Assistant

Problems in psychological research	(undergraduate)	2009
Thinking critically about psych. research	(undergraduate)	2008
Introduction to Psychological Research	(undergraduate)	2008-12
Psychological Assessment	(undergraduate)	2007-08
Language and Thought	(undergraduate)	2007

Pontificia Universidad Javeriana (Bogotá, Colombia)

Instructor

Psychological Assessment	(undergraduate)	2006-07
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Universidad Nacional De Colombia (Bogotá, Colombia)

Instructor

Technics on Exp. Analysis of Behavior	(undergraduate)	2007
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Teaching Assistant

Institución Universitaria Iberoamericana (Bogota, Colombia)

Instructor

Logic of Science

(undergraduate)

2005

SERVICE

Troy University

2019 – Institutional Review Board.

2019 – Co-chair of Research Showcase competition.

2019 – Job search committees.

2018 – Advisor of the Applied Behavior Analysis Student Club.

2018 – Committee for the curriculum development and proposal of a MSc program in Applied Behavior Analysis.

ABA Colombia (Colombian Association of Behavior Analysis – ABAn affiliated chapter).

2019 – Board Spokesperson

2012 – Communications coordinator

2012 – Founding Member

Konrad Lorenz Fundación Universitaria

2017 – 2019. Coordinator of the Behavior Analyst Certification Board (BACB) Verified Course Sequence.

2015 – 2017. Committee for the development and proposal of a course sequence approved by the Behavior Analyst Certification Board (BACB).

2015. Committee for the curriculum development and proposal of a PhD program in psychology.

2013 – 2014. Psychology research committee (as representative of the Institutional Animal Care and Use Committee - IACUC).

2012 – 2014. Chair of the Institutional Animal Care and Use Committee (IACUC).

University of Manitoba

2010 – 2011. Faculty of Graduate Studies Appeals Committee.

2009. Assistant Professor search committee.

2009. Psychology Teaching Evaluation Committee.

SOFTWARE DEVELOPMENT FOR PSYCHOLOGICAL RESEARCH

2017 – present. Computerized Task for studying effects of aversive and appetitive stimuli on self-control and impulsive behavior.

Hurtado-Parrado, C., Bohórquez, M. C., & Sánchez, C.

Keywords: verbal behavior, self-control, impulsivity, aversive control.

Knowledge area: Behavior Analysis, Psychology

Platform: Macromedia Authorware 7.01

Environment: Windows.

2015 - present. Computerized matching-to-sample task for studying the acquisition and maintenance of conditional discrimination via appetitive and aversive contingencies.

Hurtado-Parrado, C., Arias, M., & Cifuentes, J.

Keywords: verbal behavior, conditional discrimination, matching to sample, aversive contingencies.

Knowledge area: Behavior Analysis, Psychology

Platform: Macromedia Authorware 7.01

Environment: Windows.

2016. Translation and Adaptation of the Computer-Aided Personalized System of Instruction (webCAPSI) to Spanish.

Hurtado-Parrado, C., Arias, M., & González, C.

2012 – present. Computerized Task for automatic shaping of written verbal reports of performance during a multiple schedule of reinforcement.

Hurtado-Parrado, C., Arias, M., González, C.

Keywords: verbal behavior, shaping, schedules of reinforcement.

Knowledge area: Behavior Analysis, Psychology

Platform: Macromedia Authorware 7.01

Environment: Windows.

2008. Computerized Task for training and evaluating referential behavior.

Hurtado-Parrado, C. & Ortiz, G.

Keywords: behavior analysis, second order matching to sample, conditional discriminations, experimental psychology, learning, language, transference tests.

Knowledge area: Symbolic behavior (Behavior Analysis, Psychology)

Platform: Macromedia Authorware 7.01

Environment: Windows.

2005. Computerized Task for training stimulus equivalence phenomena

Hurtado-Parrado, C. & Robayo, M.

Keywords: behavior analysis, second order matching to sample, conditional discriminations, experimental psychology, learning, language, transference tests.

Knowledge area: Symbolic behavior (Behavior Analysis, Psychology)

Country: Colombia (Bogotá) – Universidad Nacional de Colombia.

Platform: Macromedia Authorware 7.01

Environment: Windows.

2003 – 2004. Second order matching to simple computerized task.

Hurtado-Parrado, C. & Robayo, M.

Keywords: behavior analysis, second order matching to sample, conditional discriminations, experimental psychology, learning, language, transference tests.

Knowledge area: Symbolic behavior (Behavior Analysis, Psychology)

Platform: Macromedia Authorware 6.0

Environment: Windows.
