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# ALEJANDRO RODRIGO GUTIÉRREZ TREJO

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## PROFILE

Professional with more than **8 years of experience in basic and applied research**. Current student of the **Ph.D. in Behavioral Sciences option Experimental Analysis of Behavior**. Graduated from the **Master's in Behavioral Sciences option Experimental Analysis of Behavior**. My current research line is focused on studying the **mechanisms of spatial navigation** in multiple species of vertebrates. The research I carried out during the Master's studies was aimed at evaluating the performance of environmentally enriched rats on various learning tasks. At the same time, I am a **Founding Partner and Chief Operation Officer**, and Marketing Manager of the company **Walden Modular Equipment**. The company's objective is to develop personalized experimental laboratory equipment used mainly in areas related to the study of behavior.

## ACADEMIC TRAINING

- **Ph.D. in Behavioral Sciences: option Experimental Analysis of Behavior.**

**Thesis project:** "Computation of multiple landmarks in humans." University of Guadalajara; Jalisco Mexico. August 2017 to the present.

Director: Dr. Jonathan Buriticá Buriticá. Laboratory of Learning and Comparative Cognition, Center for Studies and Research in Behavior, University of Guadalajara.

Supervisor: Dr. Debbie M. Kelly. Comparative Cognition Laboratory, Department of Psychology, University of Manitoba.

- **Master in Behavioral Sciences: option Experimental Analysis of Behavior.**

**Thesis:** "Effect of Environmental Enrichment on Successive Negative Operating Contrast." University of Guadalajara; Jalisco Mexico. July 03, 2017. DOI 10.13140 / RG.2.2.14830.92487

Director: Dr. Carlos de Jesus Torres Ceja. Laboratory of Behavioral Processes and Animal Models, Center for Studies and Research in Behavior, University of Guadalajara.

Co-Director: Dr. Carlos Javier Flores Aguirre. Laboratory of Behavioral Processes and Animal Models, Center for Studies and Research in Behavior, University of Guadalajara.

- **Bachelor of Veterinary Medicine and Animal Husbandry**

**Social Service Report:** "Environmental Enrichment Program and behavioral management in Asian elephants (*Elephas maximus*) at the Africam Safari zoo." Autonomous Metropolitan University; Mexico City, Mexico. September 2012.

## JOB TRAINING

- **Founding partner and chief operating officer and marketing manager**, Walden Modular Equipment; Jalisco, Mex. September 2018 - Present.
- **External consultant for the animal welfare department**, Zacango Zoo; Toluca, Mex. April 2013.
- **Coordinator of the animal welfare department**, Africam Safari; Puebla, Mex. 2011-2013.

## ACADEMIC STAYS

- **Research stay.** African Elephant Department. Africam Safari; Puebla, Mex. October 2020 - Present. Research in collaboration with BVSc Gerardo Martínez del Castillo.
- **Research stay (Ph.D.).** Comparative Cognition Laboratory, University of Manitoba; Winnipeg, Canada. (May - November 2019). Research in the laboratory of Dr. Debbie M. Kelly.
- **Research stay.** Department of Animal Welfare, Zacango Zoo; Toluca, Mex. February 2019. Research in collaboration with BVSc Carlos Gómez Medina.

- **Research stay (Masters).** Animal Behavior Laboratory, Konrad Lorenz University Foundation; Bogotá, Col. (February - March 2015). Research in the laboratory of Dr. Javier Leonardo Rico Rodriguez.

#### SCHOLARSHIPS

- **Scholarship** awarded by The National Council of Science and Technology (Mexico) to carry out a research stay abroad (Call 291276 CVU 592580). May 15 to November 15, 2019.
- **Scholarship** awarded by The National Council of Science and Technology (Mexico) to carry out my Ph.D. studies (Call 291236 CVU 592580). September 28, 2017, to September 28, 2020.
- **Scholarship** awarded by The National Council of Science and Technology (Mexico) to carry out a research stay abroad (Call 290936 CVU 592580). February 20, 2015, to March 20, 2015.
- **Scholarship** awarded by The National Council of Science and Technology (Mexico) to carry out my Master's studies (Call 290840 CVU 592580). January 29, 2014, to January 29, 2016.
- **Scholarship** awarded by the Jacksonville Zoo & Gardens New World Conservation Training Scholarship in collaboration with the Zoo Conservation Outreach Group to attend the Association of Zoos and Aquariums Principles of Program Animal Management (West Virginia; USA) course. November 14 to 19, 2011.

#### PUBLICATIONS

- **Research article.** Harvie, H., **Rodrigo, A.**, Briggs, C., Thiessen, S. & Kelly, D.M. (2021). Does stress run through the leash? An examination of stress transmission between owners and dogs during a walk. *Anim Cogn* 24, 239–250 (2021). <https://doi-org.uml.idm.oclc.org/10.1007/s10071-020-01460-6>
- **Research article.** Mejía, D., **Rodrigo, A.**, Avila-Chauvet, L., & Bonin, L. (2021). Drug use as a coping style to social isolation by COVID-19 pandemic and its effects on the adherence to safety guidelines in Mexico. *Revista Internacional de Investigación en Adicciones*, 7(1), 25-32. <https://doi.org/10.28931/riiad.2021.1.04>
- **Master's Thesis.** **Rodrigo, A.** (July 2017) Effects of environmental enrichment in the negative successive operant contrast. Center for Studies and Research in Behavior, University of Guadalajara. DOI 10.13140 / RG.2.2.14830.92487.
- **Long abstract.** Barrón-Cruz, E., Avila-Chauvet, L., **Rodrigo, A.** & García-Leal, O. (2016). Sub-optimal choice in rats and the influence of environmental enrichment on choice tasks. In Padilla, M.A (Ed.), *Research in Basic and Applied Psychology: Advances and Perspectives* (pp.16-22). Mexico: Autonomous University of San Luis Potosi. *Research in Basic and Applied Psychology: Advances and Prospects*. Mexico: UASLP.

#### INVITED LECTURES

- **"Environmental Enrichment Assessment."** 1st Course - Workshop on Environmental Enrichment in Wild Fauna (Theoretical - Online); Veterinary and Ecology Institute. January 2021.
- **"Observation and analysis of animal behavior."** Online course: Welfare in wild animals ex-situ; FaunaVet-Peru. July 25, 2020.
- **"The study of animal behavior."** Online Diploma: Behavioral management of wildlife under human care; Latin American Center for Studies in Biological Sciences and Animal Health, Autonomous University of the State of Hidalgo. July 2020.
- **"Prototype phase I -" Walden - modular equipment. "** Reto Zapopan; Jalisco, Mexico. November 29, 2017.
- **"Environmental enrichment today, from the zoo to the laboratory."** National Institute of Health; Bogota Colombia. February 26, 2015.
- **"Environmental Enrichment and its effects on Behavior."** Autonomous Metropolitan University campus Iztapalapa; Mexico City, Mexico. January 21, 2015.

- **" Ambassador animal program to promote zoo education."** Conferences on medicine and wildlife management. Autonomous Metropolitan University campus Xochimilco; Mexico City, Mexico. March 28, 2012.
- **"Managing the volunteer program at the zoo."** Conferences on medicine and wildlife management. Autonomous Metropolitan University campus Xochimilco; Mexico City, Mexico. March 28, 2012.

#### ORAL PRESENTATIONS

- **Rodrigo, A.;** & Fernández-Sordo, G. **"Reversal of environmental conditions in adult Wistar rats"**. July 2020. 2020 Virtual ABS Conference, Animal Behavior Society
- **Rodrigo, A.;** Longán, A., & Gómez-Medina, C. **"Evaluation of Zoo Animal Training Programs."** July 2020. 2020 Virtual ABS Conference, Animal Behavior Society.
- **Rodrigo, A.,** Sordo, G., & Torres, C. **"Effect of Environmental Enrichment in different periods of development."** September 2015. XXV Mexican Congress of Behavior Analysis. Veracruz University; Xalapa, Mexico.
- **Rodrigo, A.,** Rico-Rodriguez, J. L., Moreno, M., & Cardona, A. **"Effect of Environmental Enrichment on the performance of rats in an IF60s reinforcement program"**. September 2015. XXV Mexican Congress of Behavior Analysis. Veracruz University; Xalapa, Mexico.
- **Rodrigo, A.,** Gonzalez, I., & Martinez, G. **"Environmental Enrichment in Asian Elephants (*Elephas maximus*)"**. September 2009. 1st. Theoretical Practical International Congress of Clinical and Behavioral Management in Zoo Animals. University Antonio Narino; Bogota Colombia.
- **Rodrigo, A.** **"Environmental enrichment in green macaw (*Ara militaris*)"**. August 2009. XXVI Symposium on Wild Fauna. FMVZ. National Autonomous University of Mexico; Mexico City, Mexico.

#### POSTER PRESENTATION

- Harvie, H., **Rodrigo, A.,** & Kelly, D.M. **"Pigeon's reliance on Landmarks vs. Geometric Cues in Novel Environment."** Marzo 2020. Researchpalooza 2020. University of Manitoba; Winnipeg, Canada.
- **Rodrigo, A.,** Molina, J., Hernández, V., Soto, J., Miramontes, C., & Buriticá, J. **"Strategies to locate a goal through the use of landmarks in a virtual environment."** November 2018. First forum of basic psychological research. University Center for Health Sciences. University of Guadalajara; Jalisco Mexico.
- **Rodrigo, A.,** Corona, S., Estrada, A., & Buriticá, J. **"Computation of multiple landmarks to locate reinforcement area in Wistar rats."** November 2018. First forum of basic psychological research. University Center for Health Sciences. University of Guadalajara; Jalisco Mexico.
- **Rodrigo, A.,** Eudave Patiño, M., Serna, N., Lara, E., Avila-Chauvet, L., & Buriticá, J. **"Time patterns of foraging behavior in Great-tailed grackle (*Quiscalus mexicanus*) at an urban patch."** October 2018. XIX Biennial Meeting of the International Society for Comparative Psychology. University of California Los Angeles, Los Angeles, USA.
- **Rodrigo, A.,** Buriticá, J., & Avila-Chauvet, L. **"Can humans use local landmarks in a virtual environment."** April 2018. 25th Annual International Conference on Comparative Cognition. Melbourne Beach, Florida, USA.
- **Rodrigo, A.,** Avila-Chauvet, L., Moreno, J.N., & Ojeda, Y. **"Walden - a new way to make behavioral research at the laboratory."** April 2018. 25th Annual International Conference on Comparative Cognition. Melbourne Beach, Florida, USA.
- **Rodrigo, A.,** Buriticá, J., & Avila-Chauvet, L. **"Use of landmarks to locate a goal in a virtual environment."** November 2017. VI International Seminar on Behavior and Applications. Tlaxcala University; Tlaxcala, México.
- **Rodrigo, A.,** Sordo, G., & Torres, C. **"Behavioral changes in laboratory rats produced by environmental enrichment."** November 2014. XXIV Mexican Congress of Behavior Analysis. ITESO, Jesuit University of Guadalajara; Jalisco, México.

- **Rodrigo, A., & Torres, C. "Effects of the duration of the signal and the type of shaping in the adjustment of behavior in temporarily defined programs."** November 2014. XXIV Mexican Congress of Behavior Analysis. ITESO, Jesuit University of Guadalajara; Jalisco, México.

#### ORGANIZATION IN CONFERENCES

- **Secretary of the Organizing Committee:** Avila-Chauvet, L., Mejía, D., & **Rodrigo, A.** "First International Congress of the Cognition and Behavior Study Group." Cognition and Behavior Study Group. December 04, 2020. [www.ae-gec.com/Congreso/](http://www.ae-gec.com/Congreso/)

#### DEVELOPED APPLICATIONS

- Avila-Chauvet, L., & **Rodrigo, A.** "Spatial navigation task in a virtual environment." March 2018. [http://ae-gec.com/ARod/7\\_CAN/](http://ae-gec.com/ARod/7_CAN/)

#### NON-ACADEMIC COMPETITIONS

- **Top Ten: Rodrigo, A.,** Esparza, C., Moreno, J., & Ojeda, Y. **"RIS: Research Innovation Services"**. Talent Hackathon @Home: Jobs Challenge. November 8-12, 2020. <https://youtu.be/3wOnmdURk9A>
- **Top Ten:** Avila-Chauvet, L., Mejía, D., Moreno, J., & **Rodrigo, A.** **"NESYCO: Network System for the Construction Industry"**. Hacking Hub: Hackathon InnovaBrick. November 20-22, 2020. [https://youtu.be/MlmGLE3c\\_Y8](https://youtu.be/MlmGLE3c_Y8)

#### UNDER-DEVELOPMENT PROJECTS

- **Rodrigo, A. & Martinez, G. "Using artificial intelligence to determine and prevent foot problems in African elephants (*Loxodonta africana*)."**
- **Rodrigo, A. "The effects of group size and density on the locomotor patterns of apple snails"**
- **Rodrigo, A.,** Zeballos, A., Huanaco, R., Rojas, A., De la Mora, F., & Hernandez, M. **"Behavioral patterns of a White-tailed titi (*Plecturocebus discolor*) couple from Parque de las Leyendas Zoo (Lima, Peru)."**
- **Rodrigo, A.,** Avila-Chauvet, L., Buriticá, J., & Kelly D.M. **"The use of beaconing and configurational strategies to locate a goal"**
- **Rodrigo, A.,** Longán, A., Bonin, L., & Mayoral, Y. **"The effects of the Mexican COVID-19 lockdown on the emotional and behavioral health of dogs"**
- **Rodrigo, A.,** Harvie, H., & Kelly, D.M. **"Pigeons' Reliance on Landmark vs. Geometric Cues in Novel Environment"**
- **Rodrigo, A.,** Avila-Chauvet, L., & Buriticá, J. **"Daily Patterns of Foraging and Aggressive Behaviors in Great-tailed Grackle (*Quiscalus mexicanus*) at an Urban Patch with Availability or Absence of Resources."**
- **Rodrigo, A.,** Sordo, G. & Longán, A. **"Reversal of environmental conditions in adult Wistar rats."**
- Longán, A.; **Rodrigo, A.,** & Gómez-Medina, C. **"Evaluation of Zoo Animal Training Programs"**