

# Jeremy Davidson Bailoo

## Curriculum Vitae

Texas Tech University Health Sciences Center  
3601 4th St. STOP 6540, Lubbock, TX 79430  
Department of Cell Biology & Biochemistry

Office: 5A164 | Lab: 5B138, BB159, BB112VA, BB113VA  
Email: jeremy.d.bailoo@ttuhsc.edu or @ttu.edu  
Tel: 806-543-9890 | Lab: 806-743-9109

## ACADEMIC APPOINTMENTS

Texas Tech University Health Sciences Center

*Assistant Professor*, Department of Cell Biology & Biochemistry 10/2022 – present

*Research Assistant Professor*, Department of Cell Biology & Biochemistry 10/2021 – 9/2022

*Adjunct Assistant Professor*, Department of Cell Biology & Biochemistry 9/2019 – 9/2021

*Adjunct Assistant Professor*, Department of Pharmacology & Neuroscience 1/2019 – 8/2019

University of Bern, Switzerland, Veterinary Public Health Institute, Division of Animal Welfare

*Post-Doctoral Fellow* 9/2013 – 7/2018

University of North Carolina at Greensboro,

*Research Assistantship* 2006 – 2011

## EDUCATION

Ph.D., Developmental Psychology, University of North Carolina at Greensboro, Greensboro, NC 5/2011

M.A., Developmental Psychology, University of North Carolina at Greensboro, Greensboro, NC 12/2008

B.A., Developmental Psychology, Florida International University, Miami, FL 12/2005

## PROFESSIONAL INTERESTS

I am a [Developmental Psychobiologist](#) who studies animals to gain insight into how genetic and environmental factors contribute to individual differences in health and welfare across lifespan. My research is organized under three core areas. The first evaluates how exposure to environmental toxins in diet, such as arsenic, are associated with presentation of behavioral and physiological correlates of neurodevelopmental disorders and neurodegenerative diseases. The second evaluates whether the manner in which we house and care for laboratory animals affects their welfare, the validity of the models for which they are used, and the generalizability and reproducibility of experimental results derived from such use. The third is focused on the refinement of existing as well as the development of novel behavioral phenotyping tasks for use in health-related biomedical research and for assessments of animal welfare. As a mentor and educator, I am committed to providing access to opportunities for groups underrepresented in science. As an academic, I am committed to engaging in public education and dialogue with the goal of contributing to local and broad efforts to improve understanding and protect public interests in humane and ethical scientific research.

## PRIZES, AWARDS AND HONORS

Best Negative Data Prize 2020 (10,000 €) 2020

Prix Jean-Pierre Miéville 2017 (5,000 CHF) 2017

NIH Travel Award - ISDP Conference – San Sebastian, Spain 2015

NIH Travel Award - ISDP Conference – Washington, DC 2011

NIH Travel Award - ISDP Conference – San Diego, CA 2010

Rob and Debbie Guttentag Summer Stipend Award (\$2,000 USD) 2010

NIH Travel Award - ISDP Conference - Chicago, IL 2009

UNC-Greensboro Psychology Department Summer Assistantship (\$2,000 USD) 2009

NIH Travel Award - ISDP Conference - Washington, DC 2008

NIH Travel Award - ISDP Conference - San Diego, CA 2007

## GRANTS

### CURRENT

1U01AA028957-01 (**Bailoo, Co-I**, w/ Bergeson & Shen (PIs); Effort: 10% 9/23 – 8/25

Medication Development for the Treatment of Alcohol Use Disorder, **\$7,251,682**

R03ES034194-02S1 ( <b>Bailoo, Mentor</b> w/Deonarine, Co-Mentor) <i>Research Supplement to Promote Diversity in Health-Related Research. Candidate: Aarthi Annamalai</i> Arsenicals in Infant Foods; <b>\$17,206</b>	6/23 – 2/25
R01AG071859-01A1 ( <b>Bailoo, Co-I</b> , w/Lawrence, PI); Effort: 10% Transcriptional Dysfunction in Dentate Gyrus Cell Types: Roles of Retinoic Acid Responsive Genes in Protection Against Alzheimer's Disease Pathogenesis. <b>\$1,872,220</b>	1/22 – 12/26
<i>The John Templeton Foundation</i> ( <b>Bailoo, Co-I</b> w/Cornwall, PI); Effort: 10% Sperm Amyloids: Epigenetic Carriers of Inheritance, <b>\$3,081,396</b>	9/21 – 8/24
R03ES034194 ( <b>Bailoo, PI</b> w/Deonarine, Co-PI); Effort: 5% Evaluation of the timing and duration of low level dimethylarsinic acid exposure to its fate, metabolism, and development of neurodevelopmental and neurodegenerative biomarkers. <b>\$146,657</b>	3/22 – 2/25
R03ES033333 ( <b>Bailoo, PI</b> w/Deonarine, Co-PI); Effort: 5% Synthesis, quantification and <i>in vivo</i> assessment of arsenolipids prevalent in seafoods, <b>\$147,553</b>	7/21 – 6/25

## COMPLETED

Office of Research & Innovation Research Seed Funding ( <b>Bailoo, PI</b> w/Deonarine, Co-PI) Transcriptomic changes induced by chronic low-level arsenolipid exposure, <b>\$4000</b>	1/22 – 7/22
R03NS116433-02S1 ( <b>Bailoo, Mentor</b> w/Artigas, Co-Mentor) <i>Research Supplement to Promote Diversity in Health-Related Research. Candidate: Alexandria Padro</i> Production and evaluation CMT2 mouse models of ATP1A1 loss-of-function-mutation using Cre-LoxP technology. <b>\$60,441</b>	6/21 – 1/22
R03NS116433 ( <b>Bailoo, Co-I</b> w/Artigas, PI); Effort: 5% Mouse models of ATP1A1 mutation-linked neuropathies. <b>\$153,000</b>	2/20 – 1/22
Minds of Animals Workshop <i>Funding from:</i> Swiss National Science Foundation; Kontaktgruppe für Forschungsfragen; Schweizerische Akademie der Medizinischen Wissenschaften; Bürgergemeinde. <b>17,900 CHF</b>	Sept. 27-28 <sup>th</sup> 2016

## PUBLICATIONS Key: \*Student supervision, ✉ As Corresponding Author

### PEER-REVIEWED ARTICLES (*n* = 23; *h-index* = 16; *i10-index* = 17)

- Liu, X. \*, Panthagani, P. \*, Gutierrez, A. G. \*, Vega, A. \*, Shaik, A. A. \*, Aguilera, M. G. \*, Sanchez, J. \*, Willms, J. O. \*, Backus, B., Blough, B., Pauli, E., Reid, T. W., Benton, T., **Bailoo, J. D.** ✉, Bergeson, S. ✉ (2024). A Pilot Study: Treatment of high alcohol consumption in a novel minipig model of Alcohol Use Disorder. *Alcoholism Treatment Quarterly*, 1-11. DOI: [10.1080/07347324.2024.2355931](https://doi.org/10.1080/07347324.2024.2355931)
- Liu, X. \*, Gutierrez, A. \*, Vega, A. G. \*, Willms, J. O. \*, Driskill, J., Panthagani, P. \*, Sanchez, J. \*, Aguilera, M. G. \*, Backus, B., **Bailoo, J. D.** ✉, Bergeson, S. ✉ (2024). The Horizontal Ladder Test (HLT) protocol: A novel, optimized, and reliable means of assessing motor coordination in *Sus scrofa domestica*. *Frontiers in Behavioral Neuroscience (Pathological Conditions)*, 18:1357363. DOI: [10.3389/fnbeh.2024.1357363](https://doi.org/10.3389/fnbeh.2024.1357363). *Special Research Topic: Preclinical Research in Neurodegenerative Diseases: Biochemical, Pharmacological, and Behavioral Bases*
- Spontarelli, K. \*, Young, V. C., Sweazey, R. \*, Padro, A. \*, Lee, J., Bueso, T., Hernandez, R. M., Kim, J., Katz, A., Rossingol, F., Turner, C., Wilczerski, C. M., Maxwell, G. L., Holmgren, M., **Bailoo, J. D.** ✉, Yano, S. T. ✉, Artigas, P. ✉ (2023). ATP1A1-linked diseases require a malfunctioning protein product from one allele. *Biochimica et Biophysica Acta (BBA) - Molecular Cell Research*. 1871(1) 119572. DOI: [10.1016/j.bbamcr.2023.119572](https://doi.org/10.1016/j.bbamcr.2023.119572)
- Chacon-Teran, M., Bhattacharjee, S. \*, **Bailoo, J. D.**, Deonarine, A., Findlater, M. (2023). Improved Syntheses of an Arseno-fatty acid (As-FA 362) and an Arseno-Hydrocarbon (As-HC 444). *Synthesis*, 55(24): 4091-4095. DOI: [10.1055/a-2122-4287](https://doi.org/10.1055/a-2122-4287)

\*Varholick, J. A., **Bailoo, J. D.**, Jenkins, A., Voekl, B., & Würbel, H. (2021). A systematic review and meta-analysis of the relationship between social dominance status and common behavioral phenotypes in male laboratory mice. *Frontiers in Behavioral Neuroscience*, 14:624036. DOI: [10.3389/fnbeh.2020.624036](https://doi.org/10.3389/fnbeh.2020.624036). *Special Research Topic: Looking at the Complete Picture: Tackling Broader Factors Important for Advancing the Validity of Preclinical Models in Disease*.

Deonaraine, A., Kolker, A., Doughten, M., \*Holland, J., & **Bailoo, J. D.** (2021). Mobilization of arsenic from bituminous coal fly ash in the presence of dissolved organic matter. *Applied Geochemistry*, 104950. DOI: [10.1016/j.apgeochem.2021.104950](https://doi.org/10.1016/j.apgeochem.2021.104950)

**Bailoo, J. D.** ✉, Voekl, B., \*Varholick, J. A., Novak, J., Murphy, E., \*Russo, M., Palme, R., & Würbel, H. (2020). Effects of weaning age and housing conditions on phenotypic differences in mice. *Scientific Reports*, 10(11684). DOI: [10.1038/s41598-020-68549-3](https://doi.org/10.1038/s41598-020-68549-3). Collection: [Improving Reproducibility in Animal Research](#)

\*Varholick, J. A., Pontiggia, A., Murphy, E., Daniele, V., Palme, R., Voelkl, B., Würbel, H., & **Bailoo, J. D.** (2019). Social dominance hierarchy type and rank contributes to phenotypic variation within cages of laboratory mice. *Scientific Reports*, 9(13650). DOI: [10.1038/s41598-019-49612-0](https://doi.org/10.1038/s41598-019-49612-0)

**Bailoo, J. D.**, Quinius, B., Schapiro, S. J., Hopkins, W. D., & Bennett, A. J. (2019). Free-standing bipedal posture and coordinated bimanual manipulation significantly influence lateralized hand use in rhesus monkeys (*Macaca mulatta*) and chimpanzees (*Pan troglodytes*). *Journal of Comparative Psychology*, 133(2), 171-182. DOI: [10.1037/com0000137](https://doi.org/10.1037/com0000137)

**Bailoo, J. D.** ✉, Murphy, E., \*Boada-Saña, M., \*Varholick, J. A., \*Hintze, S., \*Baussier, C., Hahn, K. C., Göpfert, C., Palme, R., Voelkl, B., & Würbel, H. (2018). Effects of cage enrichment on behaviour, welfare and outcome variability in female laboratory mice. *Frontiers in Behavioral Neuroscience*, 12:232. DOI: [10.3389/fnbeh.2018.00232](https://doi.org/10.3389/fnbeh.2018.00232). *Special Research Topic: Environmental Enrichment: Enhancing Neural Plasticity, Resilience, and Repair*

\*Varholick, J. A., **Bailoo, J. D.**, Palme, R., & Würbel, H. (2018). Phenotypic variability between social dominance ranks in laboratory mice. *Scientific Reports*, 8(6593). DOI: [10.1038/s41598-018-24624-4](https://doi.org/10.1038/s41598-018-24624-4)

Hintze, S., Melotti, L., Colosio, S., **Bailoo, J. D.**, \*Boada-Saña, M., Würbel, H., & Murphy, E. (2018). A cross-species judgement bias task: integrating active trial initiation into a spatial go/no-go task. *Scientific Reports*, 8(5104). DOI: [10.1038/s41598-018-23459-3](https://doi.org/10.1038/s41598-018-23459-3)

**Bailoo, J. D.** ✉, Murphy, E., \*Varholick, J. A., \*Novak, J., Palme, R., & Würbel, H. (2018). Evaluation of the effects of space allowance on measures of animal welfare in laboratory mice. *Scientific Reports*, 8(713). DOI: [10.1038/s41598-017-18493-6](https://doi.org/10.1038/s41598-017-18493-6). \*\*Selected for the 2017 Prix Jean-Pierre Miéville for outstanding contribution to the field of Animal Welfare Science\*\*. \*\*Selected for the 2020 Best Negative Data Prize for advancing knowledge in Neuroscience by publishing negative results\*\*

Deonaraine, A., Kolker, A., Foster, A., Doughten, M., \*Holland, J., & **Bailoo, J. D.** (2016). Arsenic speciation in bituminous coal fly ash and transformations in response to redox conditions. *Environmental Science & Technology*, 50(11), 6099-6106. DOI: [10.1021/acs.est.6b00957](https://doi.org/10.1021/acs.est.6b00957)

**Bailoo, J. D.** ✉, \*Varholick, J. A., \*Garza, X. J., \*Jordan, R. L., & \*Hintze, S. (2016). Maternal separation followed by isolation-housing differentially affects prepulse inhibition of the acoustic startle response in C57BL/6 mice. *Developmental Psychobiology*, 58(8), 937-944. DOI: [10.1002/dev.21422](https://doi.org/10.1002/dev.21422)

\*Novak, J., **Bailoo, J. D.**, Melotti, L., & Würbel, H. (2016). Effect of cage-induced stereotypies on measures of affective state and recurrent perseveration in CD-1 and C57BL/6 mice. *PLoS ONE*, 11(5), e0153203. DOI: [10.1371/journal.pone.0153203](https://doi.org/10.1371/journal.pone.0153203)

\*Novak, J., **Bailoo, J. D.**, Melotti, L., Rommen, J., & Würbel, H. (2015). An exploration based cognitive bias test for mice: effects of handling method and stereotypic behaviour. *PLoS ONE*, 10(7), e01030718. DOI: [10.1371/journal.pone.0130718](https://doi.org/10.1371/journal.pone.0130718)

**Bailoo, J. D.**, Reichlin, T. S. A., & Würbel, H. (2014). Refinement of experimental design and conduct in Laboratory Animal Research. *Institute for Laboratory Animal Research*, 55(3), 383-391. DOI: [10.1093/ilar/ilu037](https://doi.org/10.1093/ilar/ilu037)

Melotti, L., **Bailoo, J. D.**, Murphy, E., Burman, O., & Würbel, H. (2014). Play in rats: association across contexts and types, and analysis of structure. *Animal Behavior and Cognition*, 1(4), 489-501. DOI: [10.12966/abc.11.06.2014](https://doi.org/10.12966/abc.11.06.2014)

Bohlen, M. O., Hayes, E. R., Bohlen, B., **Bailoo, J. D.**, Wahlsten, D. L., & Crabbe, J. C. (2014). Experimenter effects on behavioral test scores of eight inbred mouse strains under the influence of ethanol. *Behavioural Brain Research*, 272, 46-54. DOI: [10.1016/j.bbr.2014.06.017](https://doi.org/10.1016/j.bbr.2014.06.017)

**Bailoo, J. D.**✉, \*Jordan, R. L., \*Garza, X. J., & Tyler A.N. (2013). Brief and long periods of maternal separation affect maternal behavior and offspring behavioral development in C57BL/6 mice. *Developmental Psychobiology*, 56(4), 674-685. DOI: [10.1002/dev.21135](https://doi.org/10.1002/dev.21135)

Bohlen, M. O., **Bailoo, J. D.**, \*Jordan, R. L., & Wahlsten, D. L. (2012). Hippocampal Commissure defects in crosses of Four Inbred Mouse Strains with Absent Corpus Callosum. *Genes Brain & Behavior*, 7, 757-766. DOI: [10.1111/j.1601-183X.2012.00802.x](https://doi.org/10.1111/j.1601-183X.2012.00802.x)

**Bailoo, J. D.**, Bohlen, M. O., & Wahlsten, D. L. (2010). The precision of video and photocell tracking systems and the elimination of tracking errors with infrared backlighting. *Journal of Neuroscience Methods*, 188, 42-52. DOI: [10.1016/j.jneumeth.2010.01.035](https://doi.org/10.1016/j.jneumeth.2010.01.035)

## THESES

**Bailoo, J. D.** (2011). A Re-Evaluation of the Effects of Maternal Care on Offspring Behavioral Development. *North Carolina Digital Online Collection of Knowledge and Scholarship*. [Link](#).

**Bailoo, J. D.** (2008). Manipulation of the Pre- and Post-Weaning Social Environment and its Effects on Prepulse Inhibition of the Acoustic Startle Response in C57BL/6. *North Carolina Digital Online Collection of Knowledge and Scholarship*. [Link](#).

## PRE-PRINT & SUBMITTED ARTICLES

Bennett, A. J., **Bailoo, J. D.**, Dutton, M. B., Warkins, E., Michel, G.F., & Pierre, P. J. (2018). Psychological Science Applied to Improve Captive Animal Care: A Model for Development of a Systematic, Evidence-Based Assessment of Environmental Enrichment for Nonhuman Primates. (*PsyArXiv*). DOI: [10.17605/OSF.IO/79XKY](https://doi.org/10.17605/OSF.IO/79XKY)

Dutton, M. B., Pierre, P. J., **Bailoo, J. D.**, Warkins, E., Michel, G.F., & Bennett, A. J. (2018). A Model Quantitative Assessment Tool for Nonhuman Primate Environmental Enrichment Plans. (*BioRxiv*). DOI: [10.1101/341206](https://doi.org/10.1101/341206)

## PUBLISHED ABSTRACTS

\*Varholick, J. A., **Bailoo, J. D.**, Jenkins, A., Voelkl, B., Würbel, H. (2020). How social dominance affects pre-clinical measures of behavior: A systematic review of studies on male laboratory mice. *Research Reproducibility 2020, Educating for Reproducibility: Pathways of Research Integrity*. University of Florida. Virtual Meeting. December 2020.

\*Varholick, J. A., Pontiggia, A., Murphy, E., Daniele, V., Palme, R., Voelkl, B., Würbel, H., & **Bailoo, J. D.** (2018). Social relationships contribute to phenotypic variation within cages of laboratory mice. *Developmental Psychobiology*, 60(S2), 65. Presented at the 51<sup>st</sup> Annual Meeting of the International Society for Developmental Psychobiology.

\*Varholick, J. A., **Bailoo, J. D.**, Palme, R., & Würbel, H. (2016). Phenotypic variability and its relation to social dominance rank within and between cages of laboratory mice. *Louis-Jeantet Symposium: LS2 Satellite Meeting-The Future of Developmental Biology and Genetics*, pp. 35-36.

\*Varholick, J. A., **Bailoo, J. D.**, & Würbel, H. (2016). Stability of dominance rank differentially affects exploratory behaviour in male and female mice. *Proceedings of the 50th International Congress of the International Society for Applied Ethology*, pp. 164.

- \*Novak, J., **Bailoo, J. D.**, Melotti, L., & Würbel, H. (2016). Relation between cage-induced stereotypies and recurrent perseveration in laboratory mice depends on the form of stereotypy. *Proceedings of the 50th International Congress of the International Society for Applied Ethology*, pp. 123.
- \*Varholick, J. A., \*Garza, X. J., \*Jordan, R. L., Michel, G. F., & **Bailoo, J. D.** (2015). Manipulation of the Pre- and Post-Weaning Social Environment and its effects on Prepulse Inhibition of the Acoustic Startle Response in C57BL/6. *Developmental Psychobiology*, 57(7), 883. Presented at the 48<sup>th</sup> Annual Meeting of the International Society for Developmental Psychobiology.
- Bailoo, J. D.**, Reichlin, T. S., \*Varholick, J. A., & Würbel, H. W. (2015). At the Intersection of Animal Welfare, Reproducibility, and Policy. *Developmental Psychobiology*, 57(7), 862.
- Bailoo, J. D.**, \*Garza, X. J., \*Jordan, R. L., & Michel, G. F. (2014). The unit of measurement matters: An example from observations of maternal care in C57BL/6 mice. *Proceedings of the 48th International Congress of the International Society for Applied Ethology*, pp. 230.
- \*Novak, J., Melotti, L., **Bailoo, J. D.**, & Würbel, H. (2014). An exploration-based test for assessing affective state in mice. *Proceedings of the 48th International Congress of the International Society for Applied Ethology*, pp. 204.
- Melotti, L., **Bailoo, J. D.**, Murphy, E., Burman, O., & Würbel, H. (2014). Play in rats: association across contexts and types, and analysis of structure. *Proceedings of the 48th International Congress of the International Society for Applied Ethology*, pp. 81.
- Bailoo, J. D.**, Bohlen, M. O., \*Jordan, R. L., & Wahlsten, D. L. (2012). Hippocampal Commissure defects in crosses of Four Inbred Mouse Strains with Absent Corpus Callosum. *Developmental Psychobiology*, 54(7), 746. Presented at the 45<sup>th</sup> Annual Meeting of the International Society for Developmental Psychobiology.
- Bailoo, J. D.**, \*Garza, X. J., & \*Jordan, R. L. (2011). Individual Differences in Dam Response to Brief and Long Periods of Maternal Separation in C57BL/6 Mice. *Developmental Psychobiology*, 53(7), 740. Presented at the 44<sup>th</sup> Annual Meeting of the International Society for Developmental Psychobiology.
- Marcinowski, E. C., **Bailoo, J. D.**, & Michel, G. F. (2011). A Hand Use Preference Predicts Successful Building in Infants 10-14 months. *Developmental Psychobiology*, 53(7), 756. Presented at the 44<sup>th</sup> Annual Meeting of the International Society for Developmental Psychobiology.
- Bailoo, J. D.**, & \*Jordan, R. L. (2010). The Unit of Measurement: Frequencies versus Duration of Maternal Behavior as a consequence of Maternal Separation in C57BL/6 mice. *Developmental Psychobiology*, 52(7), 693. Presented at the 43<sup>rd</sup> Annual Meeting of the International Society for Developmental Psychobiology.
- \*Campbell, J., \*Garza, X. J., \*Jordan, R. L., & **Bailoo, J. D.** (2009). Consequences of Maternal Separation on Patterns of Maternal Nest Attendance in C57BL/6. *Developmental Psychobiology*, 51(7), 582. Presented at the 42<sup>nd</sup> Annual Meeting of the International Society for Developmental Psychobiology.
- Bailoo, J. D.**, \*Garza, X. J., & \*Jordan, R. L. (2009). The Consequences of Maternal Separation on Maternal Care in C57BL/6. *Developmental Psychobiology*, 51(7), 579. Presented at the 42<sup>nd</sup> Annual Meeting of the International Society for Developmental Psychobiology.
- Bailoo, J. D.**, \*Jordan, R. L., \*Garza, X. J., & Tyler, A. N. (2008). Paradoxical consequences of maternal separation in C57BL/6. *Developmental Psychobiology*, 50(7), 721. Presented at the 41<sup>st</sup> Annual Meeting of the International Society for Developmental Psychobiology.
- Bailoo, J. D.**, Tyler, A. N., & Michel, G. F. (2007). Early dam-offspring separation and its effects on pre-pulse inhibition in C57BL/6. *Developmental Psychobiology*, 49(7), 721. Presented at the 40<sup>th</sup> Annual Meeting of the International Society for Developmental Psychobiology.

## INVITED TALKS

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- Bailoo, J. D.,** Osaji, J., McLaughlin, B., Killough, J. (March 1<sup>st</sup> 2024). FOMO sapiens: Cutting through the noise in the age of excess. Student Research Week Interprofessional Education Event.
- Bailoo, J. D.** (May 3<sup>rd</sup> 2023). You are what you eat: A closer look at the diets of preclinical animal models. Obesity Research Institute 8<sup>th</sup> Annual Meeting.
- Bailoo, J. D.** (October 26<sup>th</sup> 2021). The many paths of a career in Psychology. Illinois State University, Department of Psychology.
- Bailoo, J. D.** (September 9<sup>th</sup> 2021). To enrich or not to enrich: why is that the question? Laboratory Animal Science Association/Universities Federation for Animal Welfare, 3RS Section Meeting "Enrichment and Science: A Match Made in Heaven? Virtual Meeting.
- Bailoo, J. D.** (August 12<sup>th</sup> 2021). Standards for housing, care and use—Pitfalls, Possibilities and Potential Paths forward. American Psychological Association 2021. Virtual Meeting.
- Bailoo, J. D.** (May 5<sup>th</sup> 2021). Considering the lab animal within its context: a view on reproducibility. Department of Biological Sciences, Texas Tech University.
- Bailoo, J. D.** (September 9<sup>th</sup> 2020). Effects of space allowance on measures of animal welfare in laboratory mice. 33rd European College of Neuropsychopharmacology programme. Invited talk for the Best Negative Data Prize 2020.
- Bailoo, J. D.** (February 18<sup>th</sup> 2020). Some ethical considerations for why animals are used in research. Students for Sensible Drug Policy, Illinois State University.
- Bailoo, J. D.** (April 5<sup>th</sup> 2019). How husbandry procedures affect the welfare of laboratory mice: Why this matters for your experimental results. Department of Biological Sciences, NEURO Club, Texas Tech University.
- Bailoo, J. D.** (March 11<sup>th</sup> 2019). Behavioral phenotyping of mice: Possibilities, pitfalls and paths forward. Cell Biology & Biochemistry Department Seminar Series, Texas Tech Health Sciences Center, School of Medicine.
- Bailoo, J. D.** (June 15<sup>th</sup> 2017). Is more better? Effects of environmental enrichment on measures of welfare and variation of laboratory mice. Applied Ethology and Animal Welfare Seminar Series. The University of Bern, Switzerland.
- Bailoo, J. D.** (June 30<sup>th</sup> 2016). Does size matter? Evaluating the space needs of laboratory rodents. Applied Ethology and Animal Welfare Seminar Series. The University of Bern, Switzerland.
- Bailoo, J. D.** (December 3<sup>rd</sup> 2015). Assessing the space needs of laboratory mice. Veterinary and Public Health Institute Annual Conference. The University of Bern, Switzerland.
- Bailoo, J. D.** (October 15<sup>th</sup> 2015). Enriching the environment of laboratory mice: Does the answer depend on the question? Applied Ethology and Animal Welfare Seminar Series. The University of Bern, Switzerland. The University of Bern, Switzerland.
- Bailoo, J. D.** (August 10<sup>th</sup> 2015). The reproducibility crisis in laboratory animal research: crossroads and paths forward. Institute of Virology and Immunology. The University of Bern, Switzerland.
- Bailoo, J. D.** (July 21<sup>st</sup> 2015). At the Intersection of Animal Welfare, Reproducibility, and Policy. 48<sup>th</sup> Annual Meeting of the International Society for Developmental Psychobiology. San Sebastian, Spain.
- Bailoo, J. D.,** Reichlin, T. A., Vogt, L., & Varholick, J. A. (August 11<sup>th</sup> 2015). How do we improve the quality and validity of animal experiments? Veterinary and Public Health Student Seminar. The University of Bern, Switzerland.

**Bailoo, J. D.** (February 20<sup>th</sup> 2014). Effects of housing conditions on mouse welfare and variation in outcome measures. Applied Ethology and Animal Welfare Seminar Series. The University of Bern, Switzerland.

**Bailoo, J. D.** (December 4<sup>th</sup> 2013). Refinement: From Theory to Practice. Veterinary and Public Health Institute Annual Conference. The University of Bern, Switzerland.

**Bailoo, J. D.** (October 22<sup>nd</sup> 2010). An Analysis of Patterns of Maternal Behavior as a Consequence of Separation of the Mother from Offspring in C57BL/6 Mice. Department of Psychology, Developmental Psychology Colloquium Series. The University of North Carolina at Greensboro, NC.

Wahlsten D. L., Bohlen, M. B., **Bailoo, J. D.**, & Jordan R. L. (May 14<sup>th</sup> 2010). Crosses among four mouse strains afflicted with absent corpus callosum: Searching for major gene effects and behavioral correlates. 12<sup>th</sup> Annual Meeting of the International Behavioural and Neural Genetics Society, Halifax, Canada.

**Bailoo, J. D.** (September 7<sup>th</sup> 2007). Early Dam-Offspring Separation and its Effects on Prepulse Inhibition of the Acoustic Startle Response in C57BL/6. Graduate Research Colloquium, Department of Psychology, The University of North Carolina at Greensboro, NC.

**Bailoo, J. D.** (August 24<sup>th</sup> 2007). The effects of Early Dam-Offspring Separation on Prepulse Inhibition of the Acoustic Startle Response in C57BL/6. Developmental Psychology Fall Brown-Bag Series, Department of Psychology, The University of North Carolina at Greensboro, Greensboro, NC.

#### **CONFERENCE PRESENTATIONS AND POSTERS** (see also Published Abstracts). Key: \*Student supervision

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Panthagani, P.\*, Shaik, A. A.\*, Liu, X.\*, Aguilera, M. G., Sanchez. J. N., Vega, A., Shanmugam, S., Castro-Piedras, I., Kisby, B. R., Medina, D., Adjei, P., Blough, B., Pauli, E., Henderson. G. E., Ponomarev, I., **Bailoo, J. D.**, & Bergeson, S. E. (2024). A multifaceted approach to evaluate BEM as a treatment for Alcohol Use Disorder. 16<sup>th</sup> Annual Behavior, Biology and Chemistry (BBC): Translational Research in Substance Use Disorders.

Panthagani, P.\*, Shaik, A. A.\*, Aguilera, M. G., Sanchez. J. N., Vega, A., Liu, X.\*, Shanmugam, S., Castro-Piedras, I., Medina, D., Adjei, P., Kisby, B. R., Blough, B., Pauli, E., Henderson. G. E., Ponomarev, I., **Bailoo, J. D.**, & Bergeson, S. E. (2024). Butyl Ether Minocycline Reduced Alcohol Consumption in Multiple Animal Models of Alcohol Use Disorder. 47<sup>th</sup> Annual Royal Society on Alcohol Scientific Meeting.

Bergeson, S. E., Panthagani, P.\*, Shaik, A. A., Liu, X.\*, **Bailoo, J. D.**, Reid, T., Blough, B., & Pauli, E. (2024). Butyl Ether Minocycline as a medication for Alcohol Use Disorder. 47<sup>th</sup> Annual Royal Society on Alcohol Scientific Meeting.

Panthagani, P.\*, Shaik, A. A.\*, Liu, X.\*, Aguilera, M. G., Sanchez. J. N., Vega, A., Shanmugam, S., Castro-Piedras, I., Kisby, B. R., Medina, D., Adjei, P., Blough, B., Pauli, E., Henderson. G. E., Ponomarev, I., **Bailoo, J. D.**, Reid, T. W., & Bergeson, S. E. (2024). Exploring the Potential of 10-Butylether Minocycline (BEM) in Alleviating Alcohol Use Disorder: Insights from Varied Models. Graduate School of Biomedical Sciences Student Research Week 2024.

Gomez, A.\*, **Bailoo, J. D.**, & Cornwall, G. (2024). CRES in the Brain Extracellular Matrix – A Key Player in Neuroplasticity and PNN Remodeling. Graduate School of Biomedical Sciences Student Research Week 2024.

**Bailoo, J. D.**, Annamalai, A.\*, Battacharjee, S.\*, & Deonarine, A. (2024). Arsenic in food: An understudied causal risk factor for neuro- and other- developmental disorders. 2024 USA Exposome Symposium: Children's Health, Environmental Justice, and the Exposome.

Annamalai, A.\*, Battacharjee, S.\*, **Bailoo, J. D.**, & Deonarine, A. (2024). Infants are chronically exposed to arsenic in their food: Implications for deleterious health outcomes. 2024 USA Exposome Symposium: Children's Health, Environmental Justice, and the Exposome.

Battacharjee, S.\*, Chacon-Teran, M., **Bailoo, J. D.**, Findlater, M., Louie, S. M., & Deonarine, A. (2024). A Protocol for the Identification of Arsenolipids in Marine Standard Reference Materials. 34<sup>th</sup> Sanibel Conference on Mass Spectrometry.

Tran, U., Garza, K.\*, Gomez, A.\*, Hewtson, A., **Bailoo, J. D.**, Cornwall, G. (2023). Sperm amyloids: Epigenetic carriers of inheritance? Epigenetic Inheritance Symposium 2023: Impact for Biology and Society. ETH Zurich, Switzerland.

Hernandez, M., Ponomarev, I., **Bailoo, J. D.**, Manczak, M. & Lawrence, J. J. (October 6th-7th, 2023). Transcriptional Dysfunction in Dentate Gyrus Cell Types: Roles of Retinoic Acid Responsive Genes in Protection Against Alzheimer's Disease Pathogenesis. Seventh Annual Translational Neuroscience Research Retreat, Dept. of Pharmacology and Neuroscience and Garrison Institute on Aging.

Battacharjee, S.\*, Wanjiru, S.\*, **Bailoo, J. D.**, Findlater, M., & Deonarine, A. (2023). The optimization of arsenolipid detection methods in seafood: identification and quantification of prevalent arsenolipid species. Society of Environmental Toxicology and Chemistry (SETAC) North America, 44<sup>th</sup> Annual Meeting.

Gomez, A.\*, Hewtson, A., Grozdanov, P., **Bailoo, J. D.**, Cornwall, G. (2023). The role of the highly amyloidogenic CRES in learning and memory. FASEB Protein Aggregation Conference 2023.

Battacharjee, S.\*, Panthagani, P.\*, Onubogu, S.\*, Annamalai, A.\*, Findlater, M., Trasti, S., Bergeson, S. E., Deonarine, A. & **Bailoo, J. D.** (2023). Exposure and bio-accumulation of Arsenic from Diet: Implications for the validity of pre-clinical mouse models. Center of Excellence for Translational Neuroscience and Therapeutics (CTNT) 7th Annual Symposium.

Hernandez, M.\*, Hindle, A.\*, Medina, J., Ponomoreva, O., Burroughs, E., **Bailoo, J. D.**, Lawrence, J. J. (2023). Retinoic acid signaling in the hippocampal dentate gyrus and its association with learning. Center of Excellence for Translational Neuroscience and Therapeutics (CTNT) 7th Annual Symposium.

Annamalai, A.\*, Battacharjee, S.\*, Wanjiru, S.\*, **Bailoo, J. D.**, & Deonarine, A. (2023). Evaluation of Arsenic content in rice-based infant food: Implications for mental health outcomes. Center of Excellence for Translational Neuroscience and Therapeutics (CTNT) 7<sup>th</sup> Annual Symposium.

Liu, X.\*, Gutierrez, A.\*, Willms, J. O.\*, Aguilera, M.\*, Shaik, A. A., Panthagani, P.\*, Vega, A., Backus, B., Driskill, J., Sanchez, J., **Bailoo, J. D.**, Bergeson, S. (2023). A novel DSM-V based model of Alcohol Use Disorder in Mini Pigs: An Update. Graduate School of Biomedical Sciences Student Research Week 2023.

Gomez, A.\*, Grozdanov, P., Hewtson, A., **Bailoo, J. D.**, Cornwall, G. (2023). The role of CRES amyloids in sex-specific learning and memory. Graduate School of Biomedical Sciences Student Research Week 2023.

Liu, X.\*, Gutierrez, A.\*, Willms, J. O.\*, Aguilera, M.\*, Shaik, A. A., Panthagani, P.\*, Vega, A., Backus, B., Driskill, J., Sanchez, J., **Bailoo, J. D.**, Bergeson, S. (2023). A Mini Pig Model of Alcohol Use Disorder Developed Based on DSM-V. 15th Annual Behavior, Biology and Chemistry (BBC): Translational Research in Substance Use Disorder.

Gutierrez, A.\*, Aguilera, M.\*, Liu, X. B.\*, Willms, J.\*, Shaik, A. A., Panthagani, P.\*, Vega, A., Backus, B., Driskill, J., Sanchez, J., **Bailoo, J. D.**, Bergeson, S. (2023). Evaluation of a miniature swine model of Alcohol Use Disorder using DSM-V criteria. TTU 15th Annual Undergraduate Research Conference.

Annamalai, A.\*, Onubogu, S.\*, Battacharjee, S.\*, Panthagani, P.\*, Findlater, M., Bergeson, S. E., Bailoo, J. D., & Deonarine, A. (2023). Accumulation of Arsenic in Mouse Brain after exposure through food. TTU 15th Annual Undergraduate Research Conference.

Gomez, A.\*, Grozdanov, P., Hewtson, A., **Bailoo, J. D.**, Cornwall, G. (2022). The role of the highly amyloidogenic cystatin-related epididymal spermatogenic (CRES) and CRES subgroup members in sex-specific learning and memory. Society for Neuroscience (SfN) 2022. *\*\*A. Gomez recipient of the SFN Trainee Professional Development Award\*\**

Battacharjee, S.\*, Wanjiru, S.\*, Findlater, M., **Bailoo, J. D.**, & Deonarine, A. (2022). Arsenic Species Distribution in Commercially Canned Seafood Samples. Society of Environmental Toxicology and Chemistry (SETAC) North America, 43<sup>rd</sup> Annual Meeting.

Liu, X.\*, Gutierrez, A.\*, Willms, J.\*, Backus, B., Driskill, J., Sanchez, J., Panthagani, P.\*, Rodriguez, A. L., **Bailoo, J. D.**, Susan Bergeson, S. (2022). Development of a DSM-V Miniature Porcine Model of Alcohol Use Disorder. 11th Annual Gender-Specific Medicine and Women's Health Symposium, held in collaboration with the 5th Annual Integrative Medicine Symposium.

Spontarelli, K.\*, Sweazey, R.\*, Padro, A.\*, Lee, J., Bueso, T., Hernandez, R., Kim, J., **Bailoo, J. D.**, Artigas, P. (2022). Heterozygous ATP1A1 knockout mice do not develop neuropathies. 16th International Conference on Na,K-ATPase and Related Transport ATPases.

Bhattacharjee, S.\*, **Bailoo, J. D.**, Findlater, M. and Deonarine, A. (2022). Optimization of an arsenic sequential extraction method and its application to arsenic species distribution in seafoods. Graduate Student Research Conference, Lubbock, TX, USA. March 2022.

Almaguer, J., Kisby, B. R., Castaneda, K., Pascullo, A. J., Barnes, R., Manczak, M., **Bailoo, J. D.**, Ponomarev, I. & Lawrence, J. J. (2022) All-trans Retinoic Acid Deficiency in Alzheimer's Disease: Evidence from Human Transcriptomics and a Novel Mouse Model. Graduate School of Biomedical Sciences Student Research Week 2022.

Spontarelli, K.\*, Sweazey, R.\*, Padro, A.\*, Lee, J., Bueso, T., Hernandez, R., Kim, J., **Bailoo, J. D.**, Artigas, P. (2022). Heterozygous ATP1A1 knockout mice do not develop neuropathies. Graduate School of Biomedical Sciences Student Research Week 2022.

Liu, X.\*, Willms, J.\*, **Bailoo, J. D.**, Backus, B., Gutierrez, A.\*, Driskill, J., Sanchez, J., Rodriguez, A. L., Panthagani, P.\*, Bergeson, S. (2022). Development of a DSM-V Miniature Porcine Model of Alcohol Use Disorder. Graduate School of Biomedical Sciences Student Research Week 2022.

Gomez, A.\*, Hewetson, A., Grozdanov, P., **Bailoo, J. D.**, Cornwall, G. (2022). CRES and CRES subgroup members as functional amyloids in the brain. Graduate School of Biomedical Sciences Student Research Week 2022.

Gutierrez, A.\*, Liu, X.\*, Willms, J.\*, **Bailoo, J. D.**, Backus, B., Driskill, J., Sanchez, J., Rodriguez, A. L., Panthagani, P.\*, Susan Bergeson, S. (2022). Development of a DSM-V model of Alcohol Use Disorder in Miniature Swine. TTU 14th Annual Undergraduate Research Conference.

Battacharjee, S.\*, Wanjiru, S.\*, **Bailoo, J. D.**, Findlater, M., & Deonarine, A. (2022). Optimization of Arsenic Sequential Extraction Methods and Application to the Evaluation of Arsenic Species Distribution in Seafoods. 2022 Winter Conference on Plasma Spectrochemistry.

Lawrence, J. J., Manczak, M., **Bailoo, J. D.**, & Ponomarev, I. (2021). Transcriptional Dysfunction in Dentate Gyrus Cell Types: Roles of Retinoic Acid Responsive Genes in Protection Against Alzheimer's Disease Pathogenesis. Translational Research in Nervous System Health Related Issues.

\*Almageur, J., \*Krisby, B., \*Castaneda, K., \*Pascullo, A. J., Barnes, R., Manczak, M., **Bailoo, J. D.**, Ponomarev, I. & Lawrence, J. J. (2021). All-trans retinoic acid deficiency in Alzheimer's disease: evidence from human transcriptomics and a novel mouse model. Society for Neuroscience (SfN) 2021.

Grozdanov, P., **Bailoo, J. D.**, & MacDonald, C. C. (2021). Mechanism of polyadenylation site selection by CSTF2 in the brain. 2021 Cold Spring Harbor meeting: Eukaryotic mRNA Processing (Virtual).

\*Castaneda, K., \*Krisby, B., \*Pascullo, A. J., Almaguer, J., Barnes, R., **Bailoo, J. D.**, Ponomarev, I. & Lawrence, J. J. (2021). All-trans retinoic acid deficiency in Alzheimer's disease: evidence from human transcriptomics and a novel mouse model. Center of Excellence for Translational Neuroscience and Therapeutics (CTNT) 5th Annual Symposium.

\*Castaneda, K., \*Krisby, B., \*Pascullo, A. J., Barnes, R., **Bailoo, J. D.**, Ponomarev, I. & Lawrence, J. J. (2020). Sex-specific protection from inhibitory circuit disruption by retinoic acid signaling in a novel mouse model of Alzheimer's disease. Graduate School of Biomedical Sciences Student Research Week.

**Bailoo, J. D.** (2019). Behavioral biomarkers of restrictive repetitive behavior. Translational Research in Nervous System Health Related Issues.

\*Varholick, J. A., Lawrence, J. J., & **Bailoo, J. D.** (2019). Evaluation of the confounding influence of stereotypic behavior on common behavioral tests. Translational Research in Nervous System Health Related Issues.

Melotti, L., \*Varholick, J. A., Lawrence, J. J., Trasti, S., Dorsett, M., **Bailoo, J. D.** (2019). Refinement of euthanasia of mice using isoflurane and breathing air. Translational Research in Nervous System Health Related Issues.

\*Varholick, J. A., Lawrence, J. J., Trasti, S., Dorsett, M., & **Bailoo, J. D.** (2019). Using structural enrichment to improve the welfare of breeding mice. Translational Research in Nervous System Health Related Issues.

\*Krisby, B., \*Pascullo, A. J., Wang, R., **Bailoo, J. D.**, Barnes, R., \*Selina, F., \*Anderson, T., \*Xiaobo, L., \*Barnes, R., Ponomarev, I., & Lawrence, J. J. (2019). Retinoic Acid-Induced Protection of Inhibitory Circuit Dysfunction during Alzheimer's Disease Pathogenesis: A Combined Behavioral Histological, and Transcriptomic Approach. Translational Research in Nervous System Health Related Issues.

**Bailoo, J. D.**, Wang, R., Gaither, B., & Lawrence, J. J. (2019). Evaluation of loss of acetylcholine-GABA interactions and behavioural deficits in a novel transgenic "autism" mouse model. Translational Research in Nervous System Health Related Issues.

\*Pascullo, A. J., Wang, R., **Bailoo, J. D.**, Selina, F., Anderson, T., Xiaobo, L., Barnes, R., & Lawrence, J. J. (2019). Protection of Inhibitory Circuit Dysfunction during Alzheimer's Disease Pathogenesis through Preservation of Retinoic Acid Signaling. Alzheimer's Disease & Related Disorders: Basic, Translational & Clinical Advances.

**Bailoo, J. D.** (2018). Weighing in on Discriminatory Policies Against Immigrants: Breaking the Cycle of Misinformation. Part of Symposium on "*The Role of Psychologists in Social Justice—Advances and Advice from the Frontline*". APA 2018.

**Bailoo, J. D.**, Chiodo, K. A., Quinius, B., Schapiro, S. J., Hopkins, W. D., & Bennett, A. J. (2018). Free-standing bipedal posture and coordinated bimanual manipulation significantly influence lateralized hand use in rhesus monkeys (*Macaca mulatta*) and chimpanzees (*Pan troglodytes*). APA 2018.

**Bailoo, J. D.**, Murphy, E., \*Varholick, J. A., \*Novak, J., Palme, R., & Würbel, H. (2017). Does size matter? Effects of space allowance on measures of animal welfare in laboratory mice. 35<sup>th</sup> International Ethological Conference.

\*Varholick, J. A., **Bailoo, J. D.**, Murphy, E., Varastegani, A., & Würbel, H. (2017). The effect of cage and social dominance on behavioural phenotypes in *Mus musculus*. 35<sup>th</sup> International Ethological Conference.

Hintze, S., Melotti, L., Colosio, S., **Bailoo, J. D.**, \*Boada-Saña, M., Würbel, H., & Murphy, E. (2017). Measuring optimistic and pessimistic biases across species: towards a universal task design. 35<sup>th</sup> International Ethological Conference.

Vögeli, S., Völkl, B., Murphy, E., Melotti, L., **Bailoo, J. D.**, Gebhardt-Henrich, S. G., Stratmann, A., & Toscano, M. J. (2017). The ranging behaviour of laying hens in relation to their personality. 51<sup>st</sup> International Congress of the International Society for Applied Ethology.

\*Varholick, J. A., **Bailoo, J. D.**, & Würbel, H. (2017). Phenotypic Variability and its relation to Social Dominance Rank within and between cages of Laboratory Mice. Graduate School for Cellular and Biomedical Sciences Symposium 2017.

Deonaraine, A., Kolker, A., Foster, A., Doughten, M., Holland, J.T., & **Bailoo, J.D.** (2016). Arsenic speciation in bituminous coal fly ash and transformations in response to redox condition. 2016 Goldschmidt Conference.

\*Varholick, J. A., **Bailoo, J. D.**, & Würbel, H. (2016). Stability of dominance rank differentially affects exploratory behaviour in male and female mice. 50<sup>th</sup> International Congress of the International Society for Applied Ethology.

\*Novak, J., **Bailoo, J. D.**, Melotti, L., & Würbel, H. (2016). The relation between cage-induced stereotypies and recurrent perseveration in laboratory mice depends on the form of stereotypy. 50<sup>th</sup> International Congress of the International Society for Applied Ethology.

**Bailoo, J. D.**, \*Garza, X. J., \*Jordan, R. L., & Michel, G. F. (2014). The unit of measurement matters: An example from observations of maternal care in C57BL/6 mice. 48<sup>th</sup> International Congress of the International Society for Applied Ethology.

\*Novak, J., Melotti, L., **Bailoo, J. D.**, & Würbel, H. (2014). An exploration-based test for assessing affective state in mice. 48<sup>th</sup> International Congress of the International Society for Applied Ethology.

Melotti, L., **Bailoo, J. D.**, Murphy, E., Burman, O., & Würbel, H. (2014). Play in rats: association across contexts and types, and analysis of structure. 48<sup>th</sup> International Congress of the International Society for Applied Ethology.

Bohlen, M. O., **Bailoo, J. D.**, & Wahlsten, D. L. (2009). The Precision of Video Tracking Systems and Elimination of Tracking Errors with Infrared Backlighting. 11<sup>th</sup> Annual Meeting of the International Behavioral and Neural Genetics Society.

## TEACHING

### COURSES, WORKSHOPS, AND LECTURES

An Introduction to Applied Animal Welfare	Lecturer
An Introduction to Applied Ethology	Lecturer
Biological Psychology	Teaching Assistant/Lecturer
Biomedical Statistics	Director/Lecturer
Developmental Psychology	Teaching Assistant
General Biology	Lecturer
General Psychology	Teaching Assistant
Core 3: Genes	Lecturer
History and Systems of Psychology	Teaching Assistant
Humans and Other Primates: The Minds of Animals	Workshop
Introduction to Biotechnology	Lecturer
Psychology & Law	Teaching Assistant
Research Methods	Teaching Assistant/Lecturer
Stereotypic Animal Behavior	Lecturer

## STUDENT MENTORING

### Doctoral Students

Kimberly Garza, <i>Committee Member (Texas Tech University Health Sciences Center)</i>	2022 – 2026
Alejandra Gomez, <i>Committee Member (Texas Tech University Health Sciences Center)</i>	2021 – 2025
Kerri Spontarelli, <i>Committee Member (Texas Tech University Health Sciences Center)</i>	2020 – 2024
Shubhra Bhattacharjee, <i>Co-Primary Mentor (Texas Tech University)</i>	2019 – 2024
Xiaobo Liu, <i>Co-Primary Mentor (Texas Tech University Health Sciences Center)</i>	2019 – 2024
Justin A. Varholick, <i>Co-Primary Mentor (University of Bern, Switzerland)</i>	2015 – 2018
Janja Novak, <i>Co-Primary Mentor (University of Bern, Switzerland)</i>	2013 – 2015

### Masters Students

Caroline Baussi�re, <i>Co-Primary Mentor (University of Bern, Switzerland)</i>	2016 – 2017
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### Undergraduate Students

Reanna Colaco, <i>Co-Primary Mentor (Texas Tech University)</i>	2024 – Present
Aarthi Annamalai, <i>Co-Primary Mentor (Texas Tech University)</i>	2022 – Present
Sochinenyenwa Onubogu, <i>Co-Primary Mentor (Texas Tech University)</i>	2022 – 2023
Sharon Wanjiru, <i>Co-Primary Mentor (Texas Tech University)</i>	2021 – 2022
Alexandria Padro, <i>Co-Primary Mentor (Texas Tech University)</i>	2021 – 2022

**External Examiner (PhD)**Jessica Cait, Supervisor Georgia Mason, (*University of Guelph, Canada*)Sept. 6<sup>th</sup> 2023**PROFESSIONAL SERVICE**

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**EDITORIAL**

Frontiers in Behavioral Neuroscience: Learning and Memory

*Associate Editor*

2024 – current

Frontiers in Behavioral Neuroscience

*Guest Editor, Special Issue: Improving Reproducibility in Behavioral Neuroscience*

2023

Frontiers in Veterinary Science: Animal Welfare and Behavior

*Review Editor*

2015 – current

Wiley Science Advisors

2010 – 2016

**AD HOC JOURNAL REVIEWER**

Acta Neurobiologiae Experimentalis — Alcoholism: Clinical and Experimental Research — Animal Behaviour — Applied Animal Behaviour Science — Behavioural Brain Research — Behavioural Processes — Biology Open — Biology Letters — Cerebral Cortex — Communications Biology — Developmental Psychobiology — Frontiers in Animal Science — Frontiers in Behavioral Neuroscience — Frontiers in Neuroscience — Frontiers in Veterinary Science — Journal of the American Association for Laboratory Animal Science — Journal of Alzheimer's Disease — Journal of Behavioral and Brain Science — Journal of the Experimental Analysis of Behavior — Journal of Visualized Experiments — Lab Animal — Laboratory Animals — Nature Communications — Neuroscience Letters — PLoS One — Pharmacology, Biochemistry and Behavior — Psychiatry Research — Scientific Reports — Royal Society Interface

**AD HOC GRANT REVIEWER**

Austrian Science Fund/FWF Der Wissenschaftsfonds

National Science Foundation

**SCIENTIFIC SOCIETIES**

Society for Behavioral Neuroscience and Comparative Psychology, APA, Division 6

*Early Career Psychologist Representative*

2017 – 2018

*International Relations Division Liaison*

2018 – 2020

*Elected Secretary*

2018 – 2024

International Society for Developmental Psychobiology

*Student Representative*

2010 – 2012

Brain Awareness Council

2010 – 2011

**SCIENCE ADVOCACY**

*Advisory Board Member*; nexus monARC: A Horizon 2020 Project (agreement #101079156) which applies a holistic approach to environmental monitoring of the marine environment of the Hellenic Volcanic Arc in the Mediterranean Sea.

2023– current

*Senior Editor*; Speaking of Research: An international advocacy group that provides accurate information about the importance of animal research in the biomedical, behavioral, and life sciences.

2015 – 2022

Forschung für Leben (Research for Life): A Swiss advocacy group that informs the public about the importance of biological medical and agricultural research and the creation of foundations for the ethical management of the progress associated with this area.

2014 – 2018

## MEMBERSHIPS

American Association for Laboratory Animal Science (AALAS)  
International Society for Developmental Psychobiology (ISDP)  
The Society for Behavioral Neuroscience and Comparative Psychology (APA, Division 6)  
The Society for Experimental Psychology and Cognitive Science (APA, Division 3)

## INSTITUTIONAL

Graduate School of Biomedical Sciences (GSBS)  
*Full Member, Biochemistry, Cellular & Molecular Biology (BCMB)* 2022 – current  
*Adjunct Member, Biochemistry, Cellular & Molecular Biology (BCMB)* 2021 – 2022  
*Affiliate Member, Biotechnology* 2022 – current

Institutional Animal Care and Use Committee, TTUHSC  
*Full Member* 2023 – current  
*Ad hoc member with expertise in Animal Behavior and Welfare* 2020 – 2023

Center of Excellence for Translational Neuroscience and Therapeutics (CTNT)  
*Full Member* 2022 – current  
*Judge for Student Presentations* 2021 – current  
*Associate Member* 2019 – 2022

Annual Student Research Week  
*Presenter: Interprofessional Education Event* 2024  
*Judge for Student Presentations* 2020 – current  
*Associate Member* 2019 – 2022

The University of Bern, Switzerland, Division of Animal Welfare  
*Laboratory Animal Welfare Officer* 2016 – 2018

## COMMUNITY

Planned Parenthood of Texas 2023 – current  
National Society of Collegiate Scholars Graduate 2005  
North Carolina State Science Fair Judge 2006 – 2011

## REPRESENTATIVE PRINT AND ONLINE SCIENCE MEDIA

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### SCIENCE MEDIA

What would head or partial brain transplants do to consciousness? Mind Matters. ([April 4th, 2022](#))

Staying power by Judith Hochstrasser ([March 4th 2021](#)).

Coverage of the 2020 Best Negative Data Prize.

Best Negative Prize by Eva Furrer ([October 2nd 2020](#)).

Coverage of the 2020 Best Negative Prize by the Swiss Reproducibility Network.

Global Preclinical Data Forum and European College of Neuropsychopharmacology Announce the Winner of the 2020 Best Negative Data Prize ([September 14th 2020](#)).

[About Weaning Time](#) by Ellen P. Neff (2020). *Lab Animal*, 49, 253.

Coverage of [paper](#) titled "Effects of weaning age and housing conditions on phenotypic differences in mice."

[Enrichment and outcomes in female lab mice](#) by Christopher Cheleuitte-Nieves (2019). *Lab Animal*, 48, 53–54.

Coverage of [paper](#) titled "Effects of cage enrichment on behaviour, welfare and outcome variability in female laboratory mice."

[Don't overlook enrichment, says a systematic look](#) by Ellen P. Neff (2019). *Lab Animal*, 48, 49.

Coverage of [paper](#) titled "Effects of cage enrichment on behaviour, welfare and outcome variability in female laboratory mice."

[A Space Evaluation](#) by Ellen P. Neff (2018). *Lab Animal*, 47, 104.

Coverage of [paper](#) titled "Evaluation of the effects of space allowance on measures of animal welfare in laboratory mice."

## BLOG ARTICLES

Regular contributor of education and opinion articles published on the Speaking of Research website [www.speakingofresearch.com]. *Examples:*

2015 – 2022

[4/28/22](#): What is failure? Shelved cancer treatment becomes first effective AIDS/HIV treatment. Bennett, A. J., **Bailoo, J. D.**, & Panicker, S.

[2/12/22](#): Bans and borders: Switzerland's referendum on animal research. **Bailoo, J. D.**, Bennett, A. J., Dettmer, A., Varholick, J. & Panicker, S.

[11/17/21](#): Animal protection: Animal research yields new Valley fever vaccine for dogs. Bennett, A. J. & **Bailoo, J. D.**

[4/26/21](#): #WorldImmunizationWeek 2021: Everything you need to know about COVID-19 Vaccines. Bennett, A. J. Panicker, S., Dettmer, A., & **Bailoo, J. D.**

[4/14/21](#): #FactCheckNeeded: Non-human animals cannot have a gender identity. Lewis, K., Bennett, A. J. Panicker, S., Dettmer, A., **Bailoo, J. D.**, & Varholick, J. A.

[3/31/21](#): Should animal testing be used to produce safe medicines for other animals? Bennett, A. J. & **Bailoo, J.D.**

[3/9/21](#): Prioritizing human life in a pandemic ≠ unnecessary. Panicker, S., Bennett, A. J., Dettmer, A. M., Varholick, J. A., & **Bailoo, J. D.**

[2/24/21](#): Progress in Parkinson's disease depends on Primate and other #AnimalResearch. Emborg, M., **Bailoo, J. D.**, & Doudet, D.

[1/12/21](#): #FactCheckNeeded: How are mice and rats accounted for in the balance of science, medicine, and animal welfare? Faulty assumptions lead to faulty conclusions. **Bailoo, J. D.**, Panicker, S., & Bennett, A. J.

[4/22](#), [4/23](#), [4/24](#), [4/25](#); 2019: Celebrating #WorldImmunizationWeek. **Bailoo, J. D.**

[1/15/18](#): Does size matter? Evaluating the space requirements for laboratory mice. **Bailoo, J. D.**

[9/19/17](#): The Fact Check: PETA vs. Christine Lattin. **Bailoo, J. D.**

[3/1/17 to 3/1/19](#): Research Roundup: A weekly summary of animal research. **Bailoo, J. D.**, Dettmer, A., Varholick, J. A., Clifford, P., Henley, K., & Holder, T.

[8/8/16](#): Why we haven't cured the common cold - a response to PETA's "science advisor", Dr. Julia Baines. **Bailoo, J. D.**

[1/22/16](#): Ethics, PR and the science of the head transplant. **Bailoo, J. D.**, & Varholick, J. A.

[9/15/15](#): Why science needs to improve. **Bailoo, J. D.**