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| **DANIEL A.R. CABRAL, Ph.D.** | Curriculum Vitae |
| 880 Plantation rd 106, Blacksburg, VA 24060 e| danielaranhacabral@gmail.comp| +1(334) 444-3426orcid| https://orcid.org/0000-0002-1858-8610 |  |

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| **EDUCATION AND TRAINING** |
| 2023 – present2019 - 20222015 - 2018 | Postdoctoral Associate, Fralin Biomedical Research Institute at Virginia Tech, Roanoke, VA – USAThe Bickel labSupervisor: Warren Bickel, Ph.D.Ph.D., KinesiologyAuburn University, Auburn, AL - USA Advisor: Matthew W. Miller, Ph.D. Dissertation: *The effects of implicit learning, Practicing with the expectation of teaching and anxiety training on motor performance under pressure*Bachelor of Science, Physical Education Federal University of Rio Grande do Norte, Natal, RN - BrazilAdvisor: Eduardo Bodnariuc Fontes, Ph.D.Project: The e*ffect of stress on the autonomic cardiac control of patients with substance use disorder with different levels of cardiorespiratory fitness* |

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| **ACADEMIC APPOINTMENTS** |
| ***Fralin Biomedical Research Institute***2023 – present Postdoctoral Researcher at Fralin Biomedical ResearchInstitute, Virginia Tech Carilion |
| ***Auburn University*** |  |
| 2019 – 2022 | Graduate Teaching Assistant for the School of Kinesiology, College of Education |
| 2019 – 2022 | Graduate Research Assistant, Performance and Exercise Psychophysiology Lab, School of Kinesiology |
| **ACADEMIC PUBLICATIONS** |

**┼** Indicates shared first authorship

## Manuscripts in Preparation

3. **Cabral, D**., da Costa., K, Rego, M., Fontes, E., Tavares, V., Schuch, F. Investigating the Relationship between Physical Exercise and Executive Functions in Individuals with Substance Use Disorder: A Systematic Review. *In preparation.*

2. **Cabral, D**., Tegge, A., Bickel, W. Associations of Delay Discounting, Temptation and Unhealthy Behaviors Among Individuals in Recovery from Substance Use Disorder, *In preparation.*

1. Dwyer, C., Yeh, Y., Tegge, A., **Cabral, D**., Athamneh, L., Craft, W., Bickel, W**.** The Interplay of Pain, Delay Discounting, Remission, and Quality of Life in Substance Use Disorder Recovery (2023). *Under review, Journal of Pain.*

## Peer-reviewed Publications

23. **Cabral, D. A.,** Parma, J., Morris, D., Miller, M (2023). Conquering Pressure! The effects of mild-anxiety training on motor performance under pressure during early motor learning. *Accepted Manuscript.* Journal of Experimental Psychology: Human Perception and Performance.

22. **Cabral, D. A.,** Rego, M. L., Fontes, E. B., & Tavares, V. D. (2023). An overlooked relationship in recovery from substance use disorder: Associations between body mass index and negative emotional states. Physiology & Behavior, 114383. https://doi.org/10.1016/j.physbeh.2023.114383

21. Parma, J. O., Bacelar, M. F., **Cabral, D. A.,** Recker, R, J., Orsholits, D., Renaud, O., Sander, D., Krigolson, O., Miller, M., Cheval, B., Boisgontier, M. (2023) Relationship between reward-related brain activity and opportunities to sit. *Cortex*. https://doi.org/10.1016/j.cortex.2023.06.011

20. Parma, J. O., Bacelar, M. F., **Cabral, D. A.,** Lohse, K. R., Hodges, N. J., & Miller, M. W. (2023). That looks easy! Evidence against the benefits of an easier criterion of success for enhancing motor learning. *Psychology of Sport and Exercise*, *66*, 102394. <https://doi.org/10.1016/j.psychsport.2023.102394>

19. **Cabral, D. A. R┼.,** Daou, M**┼**., Bacelar; M. F. B., Parma, J. O., & Miller, M. W. (2023). Does learning a skill with the expectation of teaching it impair the skill’s execution under psychological pressure if the skill is learned with analogy instructions? Psychology of Sport and Exercise (In principle acceptance), 51, 101757. <https://doi.org/10.1016/j.psychsport.2022.102323>20. Costa, K., Bortolotti, H.,

18. **Cabral, D.,** Rêgo, M., Brito, K., Medeiros, G., Price, M., Palhano-Fontes, F., Araujo, D., Fontes, F., (2022). Insular cortex activity during food-specific inhibitory control is associated with academic achievement in children. Physiology & Behavior, 114001. https://doi.org/10.1016/j.physbeh.2022.114001.

17. Quirino, W., **Cabral, D.,** Bigliassi, Bortolotti, H., M., Hussey, E., Ward, N., Fontes, Ed., (2022). The mediating role of inhibitory control in the relationship between prefrontal cortex hemodynamics and exercise performance in adults with overweight or obesity. Physiology & Behavior, 113966.

https://doi.org/10.1016/j.physbeh.2022.113966.

16. **Cabral, D. A**., Wilson, A. E., & Miller, M. W. (2022). The effect of implicit learning on motor performance under psychological pressure: A systematic review and meta- analysis. Sport, Exercise, and Performance Psychology. https://doi: 10.1037/spy0000286

15. Bacelar, M. F., Parma, J. O., **Cabral, D.,** Daou, M., Lohse, K. R., & Miller, M. W. (2022). Dissociating the contributions of motivational and information processing factors to the self-controlled feedback learning benefit. Psychology of Sport and Exercise, 59, 102119. https://doi.org/10.1016/j.psychsport.2021.102119

14. Vagner D.O. Tavares, Felipe B. Schuch, Davy Vancampfort, Matthew Jenkins, Maria Luiza M. Rego, Nicole L. Galvão-Coelho, **Daniel A.R. Cabral** (2021): Does being overweight play a role in the reduced inhibitory control of patients receiving treatment for substance use disorder? Physiology & Behavior, 113587, https://doi.org/10.1016/j.physbeh.2021.113587.

13. Cheval, B., Cabral, D. A. R., Daou, M., Bacelar, M. F. B., Parma, J. O., Forestier, C., Orsholits, D., Maltagliati, S., Sander, D., Boisgontier, M. P., & Miller, M. W. (2021). Inhibitory control elicited by physical activity and inactivity stimuli: An electroencephalography study. *Motivation Science, 7*(4), 386–

399. https://doi.org/10.1037/mot0000236.

12. Evanilson F. Moura, **Daniel A. R. Cabral**, Maria Luiza M. Rêgo, Rodrigo A. V. Browne, Geovani A. D. Macêdo, Ludmila L. P. Cabral, Andres Vivas, Gledson T. A. Oliveira, Bruno E. B. Lucena, Hassan M. Elsangedy, Eduardo C. Costa & Eduardo B. Fontes (2021): Associations of objectively measured movement behavior and cardiorespiratory fitness with mental health and quality of life in older adults with hypertension: an exploratory analysis during the COVID-19 pandemic, Aging & Mental Health, doi: 10.1080/13607863.2021.1942436

11. de Medeiros Rêgo, M. L**┼**., **Cabral, D. A. R┼.,** da Costa, K. G., Bortolotti, H., Price, M., Fernandes, G. A., & Fontes, E. B. (2020). Systolic blood pressure mediates the association between body mass index and inhibitory control in children. Biological Psychology, 157C, 107988. <http://doi.org//>10.1016/j.biopsycho.2020.107988

10. Cheval, B., Daou, M., **Cabral, D. A. R.,** Bacelar; M. F. B., Parma, J. O., Forestier, C., Orsholits, D., Sander, D., Boisgontier, M. P., & Miller, M. W. Higher inhibitory control is required to escape the innate attraction to effort minimization. Psychology of Sport and Exercise, 51, 101781. https://doi.org/10.1016/j.psychsport.2020.101781

9. Tavares, V. D., da Costa, K. G., **Cabral, D. A.,** Rego, M. L., Price, M., & Fontes, E. B. (2020). Cardiorespiratory Fitness Predicts Higher Inhibitory Control in Patients with Substance Use Disorder. Journal of Clinical Sport Psychology, 1(aop), 1-16.

8. da Costa, K. G., Price, M., Bortolotti, H., de Medeiros Rêgo, M. L., **Cabral, D. A. R.**, Langer, R. D., & Fontes, E. B. (2019). Fat mass predicts food-specific inhibitory

control in children. Physiology & behavior, 204, 155-161.

7. **Cabral, D. A. R**., da Costa, K. G., Tavares, V. D. D. O., Rêgo, M. L. D. M., Faro, H. K. C., & Fontes, E. B. (2019). Cardiorespiratory fitness predicts greater vagal autonomic activity in drug users under stress. Substance abuse: research and treatment, 13, 1178221819862283.

6. Rêgo, M. L., **Cabral, D. A.,** Costa, E. C., & Fontes, E. B. (2019). Physical exercise for individuals with hypertension: It is time to emphasize its benefits on the brain and cognition. Clinical Medicine Insights: Cardiology, 13, 1179546819839411.

5. Costa, K. G., **Cabral, D. A.**, Hohl, R., & Fontes, E. B. (2019). Rewiring the addicted brain through a psychobiological model of physical exercise. Frontiers in Psychiatry, 10, 600.

4. Rêgo, M. L. D. M., **Cabral, D. A. R**., & Fontes, E. B. (2018). Cognitive deficit in heart failure and the benefits of aerobic physical activity. Arquivos Brasileiros de Cardiologia, 110(1), 91-94.

3. **Cabral, D. A.,** Tavares, V. D., da Costa, K. G., Nascimento, P. H., Faro, H. K., Elsangedy,

H. M., & Fontes, E. B. (2018). The benefits of high intensity exercise on the brain of a drug abuser. *Glob J Health Sci*, *10*, 123-135.

2. **Cabral, D. A.,** da Costa, K. G., Okano, A. H., Elsangedy, H. M., Rachetti, V. P., & Fontes,

E. B. (2017). Improving cerebral oxygenation, cognition and autonomic nervous system control of a chronic alcohol abuser through a three-month running program. Addictive behaviors reports, 6, 83-89.

1. Grandjean da Costa, K., Soares Rachetti, V., Quirino Alves da Silva, W., **Aranha Rego Cabral, D.,** Gomes da Silva Machado, D., Caldas Costa, E., & Bodnariuc Fontes,

E. (2017). Drug abusers have impaired cerebral oxygenation and cognition during exercise. PLoS One, 12(11), e0188030.

# ABSTRACT/ CONFERENCE PRESENTATIONS

\* Indicates presenter

\*\* Indicates mentee

Indicates presentation received award

 41. Nguyen, J\*\*., Cabral, D., Bickel, W. (2023). The associations of chronic pain and obesity with delay discounting and unhealthy behaviors in individuals in recovery from substance use disorder. Summer Research Symposium at Virginia Tech.

40. **Cabral, D\*.,** Tegge, A., Dwyer, C., Bickel, W. (2023). A preliminary analysis of delay discounting and unhealthy behaviors among individuals in recovery from alcohol use disorder. Fralin Biomedical Research Institute Annual Retreat. Poster Presentation.

39. Morris, D\*\*., Parma, J., Green, K., Kamburis, G., Lewis, D., Young, A., Miller, M., **Cabral, D.** (2023). The effects of anxiety training on performance under pressure: Investigating the psychological mechanisms. Auburn University Research Symposium – Second Place on the Category of Oral Presentation in Human Sciences, Social Sciences, Creative Arts, Nursing, and Humanities.

38. Parma, J., Bacelar, M., **Cabral, D.,** Fernandez, A., Gann, J., Green, K., Holmes, W., Messikomer, K., Morris, D., Lohse, K., Hodges, N., Miller, M., (2022). Evidence Against Target Zone Benefits for Enhancing Motor Learning: A High-Powered Study Comparing Large and Small Targeted Aiming. North American Society for the Psychology of Sport and Physical Activity (NASPSPA). Annual Meeting. National Conference. Verbal presentation.

37. **Cabral, D\*.,** Daou, M., Parma, J., Bacelar., M., Holmes, W., Green, K., Morris, D., Gann, J., Messikomer, K., Franklin, W., Miller, M (2022). Does learning a skill with the expectation of teaching it impair the skill’s execution under psychological pressure if the skill is learned implicitly? (2022). North American Society for the Psychology of Sport and Physical Activity (NASPSPA). Annual Meeting. National Conference. Verbal presentation.

36. Ellis, D., Miller, M., Bacelar, M., **Cabral, D.,** Parma, J (2022). How your brain's perception of task performance is making you lazy: Reward positivity and its effect on energy expenditure. Auburn Research Symposium. Oral presentation.

35. Morris, D\*\*., Parma., J., Bacelar, M., Green, K., Holmes, W., Gann, J., Messikomer, K., Miller, M., **Cabral, D** (2022). The effect of implicit learning and movement reinvestment on performance under pressure. Auburn University Research Symposium – College Of Education Undegraduate Poster Presentation Winner.

34. **Cabral, D\***., Daou, M., Parma, J., Bacelar., M., Holmes, W., Green, K., Morris, D., Gann, J., Messikomer, K., Franklin, W., Miller, M (2022). Does learning a skill with the expectation of teaching it impair the skill’s execution under psychological pressure if the skill is learned with analogy instruction. Auburn University Research Symposium – College Of Education Graduate Oral Presentation Winner.

33. Bacelar, M, Parma, J., **Cabral, D**., Lohse, K., & Miller, M. (2021). Beyond correct vs. Incorrect: investigating graded feedback processing in a more naturalistic skill

learning paradigm. *Annual Meeting of the Society for Psychophysiological Research*. International Conference. Virtual poster presentation

32. Cheval, B., **Cabral, D. A. R.,** Daou, M., Bacelar, M. F. B., Parma, J. O., Forestier, C., Orsholists, Maltagliati, S., Sander, D., Boisgontier, M. P., & Miller, M. W. (2021). Sedentary Behaviors and Cognitive Control: An EEG Study. North American Society for the Psychology of Sport and Physical Activity (NASPSPA). Virtual Annual Meeting. National Conference. Verbal presentation.

31. **Cabral, D.A.R\*.**, Wilson., A & Miller, M. (2021). The Effect of Implicit Learning on Motor Performance Under Psychological Pressure: A Meta-Analysis. *North American Society for the Psychology of Sport and Physical Activity (NASPSPA)*. Virtual Annual Meeting. National Conference. Verbal presentation.

30. Bacelar, M., Parma, J., McClure, M., Holley, J., Barnes, B., **Cabral, D.A.R.**, Daou, M., Lohse, K., & Miller, M. (2020). Error estimation during practice may hinder motor learning: evidence from a self-controlled feedback paradigm. *North American Society for the Psychology of Sport and Physical Activity (NASPSPA)*. Virtual Annual Meeting. National Conference. Verbal presentation.

29. Parma, O. P., Zona, V., Bacelar, M**., Cabral, D.A.R.,** & Miller, M. (2020). The effect of distinct settings and types of physical activity images on the automatic processing of sedentary people. *North American Society for the Psychology of Sport and Physical Activity (NASPSPA)*. Virtual Annual Meeting. National Conference. Verbal presentation

28. Cheval, B., Daou, M., **Cabral, D. A. R.**, Bacelar, M. F. B**.**, Parma, J. O., Forestier, C., Orsholists, Sander, D., Boisgontier, M. P., & Miller, M. W. (2020). Response inhibition to physical inactivity stimuli in an affective go/no-go task. *North American Society for the Psychology of Sport and Physical Activity (NASPSPA)*. Virtual Annual Meeting. National Conference. Verbal presentation.

27. **Cabral, D. A. R\***., Vagner D.O Tavares., Kell G. Costa., & Eduardo B. Fontes., Cardiorespiratory Fitness Moderates the Relation Between Years of Drug Use and Stress in Drug Abusers. *American College of Sports Medicine Annual Meeting*, 2019, Orlando. Medicine & Science in Sports & Exercise (Supplement), 2019. v. 51.

26. Eduardo B. Fontes., Kell G. Costa., Henrique Bortolotti., **Cabral, D. A. R**., Andrés Vivas., Erika Hussey., Nathan Ward., Campos, B. M., Noakes, & T. D., Min, L. L., Cyclists’ Brain Cycling: An fMRI Study. American College of Sports Medicine Annual meeting, 2019, Orlando. Medicine & Science in Sports & Exercise (Supplement), 2019. v. 51.

25. Kell G. Costa., Henrique Bortolotti., Kaline. B. Santos., Medeiros, G., Fontes, F. P**., Cabral,**

**D. A. R.**, Rego, M. M., Gleydiciane A. Fernandes., Menna Price., & Eduardo B. Fontes. Brain Activity For Food Inhibition In Children With Higher Cardiorespiratory Fitness: An fMRI Study. American College of Sports Medicine Annual Meeting, 2019, Orlando. Medicine & Science in Sports & Exercise (Supplement), 2019. v. 51.

24. Rego, M. M., **Cabral, D. A. R.,** Henrique Bortolotti., Kell G. Costa., Gleydiciane A. Fernandes., Menna Price., & Eduardo B. Fontes. Systolic Blood Pressure Mediates the Relationship Between Body Mass Index and Inhibitory Control in Children. American College of Sports Medicine Annual Meeting, 2019, Orlando. Medicine & Science in Sports & Exercise (Supplement), 2019. v. 51.

23. Quirino, W.A.S., Hassan M. Elsangedy., **Cabral, D. A. R.**, Nathan Ward., Erika Hussey., Henrique Bortolotti., & Eduardo B. Fontes. The role of inhibitory control on the relationship between pré-frontal córtex hemodynamics and exercise performance in sedentary adults. II SIMBRACE, 2019, João Pessoa: Physical Exercise and Human Performance, 2019.

22. Rego, M. M., **Cabral, D. A. R.,** Henrique Bortolotti., Kell G. Costa., Raquel D. Langer., Gleydiciane A. Fernandes., & Eduardo B. Fontes. Blood pressure mediates the relationship between body mass and food-specific inhibitory control in children. *73° Brazilian Congress of Cardiology*, 2018, Brasília. Jornal of Brazilian Society of Cardiology, 2018. v. 111. p. 285-285.

21. **Cabral, D. A. R\*.,** Vagner D.O Tavares., Heloiana K.C. Faro., Kell G. Costa., & Eduardo

B. Fontes. Drug users have impaired cardiac autonomic control and stress recovery. *73° Brazilian Congress of Cardiology*, 2018, Brasília. Jornal of Brazilian Society of Cardiology, 2018. v. 111. p. 163-164.

20. Kell G. Costa., Henrique Bortolotti., Rego, M. M., **Cabral, D. A. R.,** Gleydiciane A. Fernandes., Kaline. B. Sanros., Raille Silva., & Eduardo B. Fontes. Effect of fat mass and blood pressure on fitness level and food-specific inhbitory control in children. *VII Brazilian Congress of Metabolism, Nutrition and Exericse.* Londrina, 2018.

19. **Cabral, D. A. R\*.,** Kell G. Costa., Adolfo M.C Neto., Alexandre H. Okano., Hassan M. Elsangedy., Vanessa P.S Rachetti., & Eduardo B. Fontes. Alcohol Addiction - Improving Brain Oxygenation and Cognition Through a Three-Month Running Program. *American College of Sports Medicine Annual Meeting*, 2017. Medicine & Science in Sports & Exercise (Supplement), 2017. v. 49.

18. Costa, K.G., Da Silva, W.Q.A., **Cabral**, **D.A.R**., Okano, A. H., Elsangedy, H., Costa, E. C., Rachetti, V. P. S., Hussey, E., Ward, N., & Fontes, E. B. (2017). Lower cognition and prefrontal cortex oxygenation during high intensity exercise in individuals with substance addiction. *American College of Sports Medicine Annual Meeting*, 2017. Medicine & Science in Sports & Exercise (Supplement), 2017. v. 49.

17. **Cabral, D. A. R\*.,** Heloiana K.C. Faro., Vagner D.O Tavares., Kell G. Costa., Petrus G.

M. Dias., Rego, M. M., & Eduardo B. Fontes. Cold pressor test to identify changes in autonomic control of drug users: Benefits of physical activity. *VI Congress of Physical Education of Vale do São Francisco*, 2017, Petrolina. VI CEFIVASF. Petrolina, 2017. v. 6.

16. Rego, M. M., **Cabral, D. A. R.,** Marilia P. M. Tavares., Henrique Bortolotti., Kell G. Costa., Hassan M. Elsangedy., & Eduardo B. Fontes. Influence of body fat percentage and fitness level on autonomic control of children and their relationship with cognition. *VI Congress of Physical Education of Vale do São Francisco*, 2017, Petrolina. VI CEFIVASF. Petrolina, 2017. v. 6.

15. Marilia P. M. Tavares., Heloiana K.C. Faro., Paulo H. D. Nascimento., Kell G. Costa., Henrique Bortolotti., Gleydiciane A. Fernandes., **Cabral, D. A. R.,** Daniel G.S. Machado., Eduardo B. Fontes., & Hassan M. Elsangedy. Do children who better perceive bodily information have worse fitness level? *VI Congress of Physical Education of Vale do São Francisco*, 2017, Petrolina. VI CEFIVASF. Petrolina, 2017. v. 6.

14. Vagner D.O Tavares., Paulo H. D. Nascimento., **Cabral, D. A. R.,** Kell G. Costa., Hassan

M. Elsangedy., Alexandre H. Okano., & Eduardo B. Fontes. Chronic drug consumption: Harms for autonomic cardiac control and benefits of fitness level. *VI*

*Congress of Physical Education of Vale do São Francisco*, 2017, Petrolina. VI CEFIVASF, 2017. v. 6.

13. Rego, M. M., **Cabral, D. A. R.,** Henrique Bortolotti., Kell G. Costa., João H. Souza., Marilia P. M., Tavares., Hassan M. Elsangedy., & Eduardo B. Fontes. Relationship between body fat percentage, fitness level, autonomic control and cognition in children - A pilot study. *XI Brazilian Congress of Physical Activity and Health*, 2017, Florianópolis. v. 22.

12. Paulo H. D. Nascimento., Vagner D.O Tavares., **Cabral, D.A.R**., Heloiana K.C. Faro., Kell

G. Costa., & Eduardo B. Fontes., Chronic drug consumption: Harms on cardiac autonomic control under stress. *IV Brazilian Congress of Mental Health and Drug Use.*, 2017, João Pessoa.

11. **Cabral, D.A.R\***., Vagner D.O Tavares., Paulo H. D. Nascimento., Kell G. Costa., Hassan

M. Elsangedy., & Eduardo B. Fontes. Effect of high-intensity physical exercise on brain function, autonomic control and psychosocial responses in a drug user. *IV Brazilian Congress of Mental Health and Drug Use.*, 2017, João Pessoa.

10. **Cabral, D.A.R\***., Kell G. Costa., Vagner D.O Tavares., Rego, M. M., Hassan M. Elsangedy., & Eduardo B. Fontes. Cold pressor test to identify changes on autonomic control in drug users. *XIX Norteriograndense Congress of Cardiology*, 2017, Natal. 108.

9. **Cabral, D.A.R\***., & Rego, M. M. Effect of Physical Exercise on Cardiac Rehabilitation post heart attack: a review. *International Convention of Sport, Fitness and Health*, 2016. v. 11. p. 388-388.

8. **Cabral, D.A.R\***., Kell G. Costa., Adolfo M.C Neto., & Eduardo B. Fontes. Effect of a running program n motor performance, cognition and psychosocial profile in an alcoholic. *VIII Brazilian Congress of Motor Behavior*, 2016, João Pessoa. Brazilian Journal of Motor Behaviour, 2016. v. 10.

7. Kell G. Costa., Wesley Q. A Silva., **Cabral, D.A.R**., Adolfo M.C Neto., Marcus V.C. Silva., & Eduardo B. Fontes. Effect of physical exercise intensity on inhibitory control in drug users. *VIII Brazilian Congress of Motor Behavior*, 2016, João Pessoa. Brazilian Journal of Motor Behavior, 2016. v. 10.

6. Adolfo M.C Neto., **Cabral, D.A.R.,** Kell G. Costa., Maria V. Nogueira., & Vanessa P.S Rachetti., Relationship between motor and cognitive performance in drug users. *VIII Brazilian Congress of Motor Behavior*, 2016, João Pessoa. Brazilian Journal of Motor Behavior, 2016. v. 10.

5. Marcus V.C. Silva., Kell G. Costa., **Cabral, D.A.R.,** Adolfo M.C Neto., & Vanessa P.S Rachetti. Exhausted aerobic motor performance diminishes drug craving in drug users. *VIII Brazilian Congress of Motor Behavior*, 2016, João Pessoa. Brazilian Journal of Motor Behavior, 2016. v. 10.

4. Eduardo B. Fontes., **Cabral, D.A.R**., Kell G. Costa., Adolfo M.C Neto., Marcus V.C. Silva., Vagner D.O Tavares., Alexandre H. Okano., Hassan M. Elsangedy., & Vanessa P.S Rachetti. Enhancing brain oxygenation and cognition in an alcoholic through acute and chronic exercise: A case study. *VI Brazilian Congress of Metabolism, Nutrition and Exercise*, 2016, Londrina. VI CONBRAMENE, 2016.

3. Alexandre H. Okano., Adolfo M.C Neto., Eduardo B. Fontes., **Cabral, D.A.R**., Kell G. Costa., Marcus V.C. Silva., Vagner D.O Tavares., Hassan M. Elsangedy., Eduardo

C. Costa., & Vanessa P.S Rachetti. The relationship between cognitive and motor

performance in drug users. *VI Brazilian Congress of Metabolism, Nutrition and Exercise*, 2016, Londrina. VI CONBRAMENE, 2016.

2. Vagner D.O Tavares., Hassan M. Elsangedy., Eduardo B. Fontes., Alexandre H. Okano., Kell G. Costa., **Cabral, D.A.R**., Adolfo M.C Neto., Texeira, R. C., & Agricola, P.

M. D. Effect of resistance training on affective responses. *VI Brazilian Congress of Metabolism, Nutrition and Exercise*, 2016, Londrina. VI CONBRAMENE,

1. Kell G. Costa., Wesley Q. A Silva., **Cabral, D.A.R**., Alexandre H. Okano., Hassan M. Elsangedy., Eduardo C. Costa., Vanessa P.S Rachetti., & Eduardo B. Fontes. Drug users have lower cognitive performance and prefrontal cortex oxygenation during high-intensity exercise. *VI Brazilian Congress of Metabolism, Nutrition and Exercise*, 2016, Londrina. VI CONBRAMENE, 2016.

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| **ACADEMIC AWARDS AND HONORS** |
| 2022 | Auburn University research symposium – College of Education graduate oral presentation winner.Presentation: *Does learning a skill with the expectation of teaching it impair the skill’s execution under psychological pressure if the skill is learned with analogy instruction?* Awarded: $100. |
| 2022 | College of Education Travel Award. Awarded $500 |
| 2021 | Auburn University’s Outstanding First-Year Experience Mentors for 2020-2021. |
| 2021 | Graduate Student Travel Award, School of Kinesiology, Auburn University. Awarded $750. |
| 2020 | Graduate Student Travel Award, School of Kinesiology, Auburn University. Awarded $300. |
| 2019 | Graduate Student Travel Award, School of Kinesiology, Auburn University. Awarded $750. |
| 2018 | Research/Extension Assistant Scholarship (PROEX – UFRN). Awarded R$4,800 over one year.**Project:** “*Motivation: Pleasure and well-being during an active life-style*”**Role:** Conducting exercise training sessions with old individuals in the University Campus.Mentor: Eduardo Fontes, PhD |
| 2017 | Outstanding Physical Education Student Award, Norteriograndense Conference of Physical Education. Awarded by the Federal University of Rio Grande do Norte. |
| 2017 | Research/Extension Assistant Scholarship (PROEX – UFRN). Awarded R$4,800 over one year. |

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|  | **Project:** “*Running Against Drugs: Treatment of Patients through Physical Activity*”**Role:** Conducting exercise training sessions with substance use disorder patients in a psychiatric hospital.Mentor: Eduardo Fontes, PhD |
| **INVITED LECTURES** |
| 20222020 | Specialization Program in Exercise Physiology. Promoted by the Federal University of Rio Grande do Norte.**Presentation:** *From Brazil to the US: My Experience as a graduate Student Abroad.*1st Circuit of Lectures in Physical Activity and Sports Science, Virtual Event. Promoted by the Federal University of Rio Grande do **Presentation**: *Negative emotional states during isolation and the benefits of physical exercise.* |
| 2020 | Specialization Program in Exercise Physiology: Theoretical and Practical Bases of Fitness and Personal Trainer. Promoted by the Federal University of Rio Grande do Norte.**Presentation**: *Neurophysiological Mechanisms of Motor Learning* |

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| **RESEARCH, MENTORING, AND TEACHING EXPERIENCE** |
| ***Research Experience*** |
| 2023 - present2019 - 2022 | **Postdoctoral Associate |** Bickel LabFralin Biomedical Research Institute, Roanoke. VA* *Role: Research design, data analysis, interpretation, and dissemination of results; mentoring high-school, undergraduate, and graduate students*

**Graduate Research Assistant** | Performance and Exercise Psychophysiology LabAuburn University, Auburn, AL* *Role: Research design, data collection, analysis, interpretation, and dissemination of results.*
 |
| 2016 - 2018 | **Undergraduate Research Assistant** | Research Group in Physical Activity, Cognition and Behavior |
|  | Federal University of Rio Grande do Norte, Natal, Brazil |
|  | * *Role: Data collection and data management.*
 |

## Mentoring Experience

*Mentees*

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| *Summer 2023* |  |
| Zachary Hubshman | Center for Health Behaviors Research Program, Fralin Biomedical Research Institute |
| Daniel Sane | Center for Health Behaviors Research Program, FralinBiomedical Research Institute |
| Jenny Nguyen | Center for Health Behaviors Research Program, FralinBiomedical Research Institute |
| Charlie Moser | Summer Research Assistant, Cornel University |
|  *Spring 2023 – Summer 2023* |
| Bruna Franca | Psychology Ph.D. student from Brazil who was doing an exchange program at the Fralin Biomedical Research Institute |
| *Fall 2021 – Spring 2022* |  |
| Matthew Bucci | Master’s student (Exercise Science), Auburn University |
| Gage Ellis | Master’s student (Exercise Science), Auburn University |
| Katherine Messikomer | Exercise Science, Auburn University |
| Daniel Morris | Biomedical Science, Auburn University |
| Kaila Green | Exercise Science, Auburn University |
| *Fall 2021* |  |
| Josh Gann | Biomedical Science, Auburn University |
| Will Holmes | Biomedical Science, Auburn University |
| *Spring 2021* |  |
| Will Franklin | Chemistry & Biochemistry, Auburn University |
| Ella Walker | Biomedical Sciences, Auburn University |

***Teaching Experience***

**Fralin Biomedical Research Institute**

*Lead Instructor*

* **Research & Methods Club:** The Research & Methods Club is not a formal course. Instead, it was created to familiarize high-school and undergraduate students with basic aspects of research, such as research validity, how to read a paper, presentations, and reproducibility. The idea is to prepare these students for their research assistant role in our lab, which often requires them to present posters and help Ph.D. students and postdocs run their studies. The club is currently on its second edition (Fall 2023) and will happen throughout the Semester.
* **R Workshop:** The R workshop is not a formal university course. During my current position, I launched an R workshop for high-school and undergraduate students. In this workshop, we discuss how to implement data cleaning and processing procedures using programming, as well as how to analyze data. Additionally, I encourage the students to critically think about research questions, come up with hypotheses, and test those hypotheses. The R workshop is much more than a programming class. It is an environment where we all discuss science as a whole, from the conception of an idea to disseminating results in a format often encountered in both conferences and published papers.
* **Reading Club:** The reading club is not a formal university course. During the reading club, high school and undergraduate students gather to discuss important papers on the topics of cognitive/behavioral psychology, and neuroscience.

**School of Kinesiology, Auburn University**

*Lead Instructor*

* + KINE 1103 – Wellness (Undergraduate Level)
	+ KINE 1003 – Active Auburn (Undergraduate Level)
	+ KINE 3651 – Motor Learning and Performance Lab (Undergraduate Level)
	+ KINE 3823 – Principles of Sports Coaching (Undergraduate Level)
	+ KINE 3843 – Coaching the Mental Side of Sports (Undergraduate Level)

# PROFESSIONAL AND ACADEMIC SERVICE

### Scientific and Professional Memberships

* + North American Society for the Psychology of Sport and Physical Activity (active)

### Professional Service

* + Volunteer mentor for the Graduate Student First Year Experience Peer Mentorship Program at Auburn University (2021)

### Reviewer for the Following Journals

* + Substance Abuse: Research and Treatment (2021 – present)
	+ Research Quarterly for Exercise and Sport (2021 – present)
	+ Frontiers in Cardiovascular Medicine (2021 – present)
	+ Journal of Motor Behavior (2021 – present)
	+ Psychology of Sport and Exercise (2022 – present)
	+ Psychophysiology (2022 – present)
	+ Neuroscience Letters (2023 – present)
	+ Behavioral Brain Research (2023 - present)
	+ Mental Health and Physical Activity (2023 – present)
	+ Experimental Clinical Psychopharmacology (2023 – present)
	+ Tobacco Control (2023 – present)

# TRAINING

* + **Python**
		- **Supervised Learning with sckit-learn –** DataCamp (2023)
		- **Machine Learning with Python** – IBM (2023)
		- **Python for Data Science –** Alura Online (2023)
		- **Python for Data Science: Language and Numpy –** Alura Online (2023)
	+ **R**
		- **Meta-Analysis -** Coursework from Ph.D. degree, Auburn University, AL (2020)
		- **Advanced Analysis for Ecology -** Coursework from Ph.D. degree, Auburn University, AL (2020)
		- **Programming in R -** Coursework from Ph.D. degree, Auburn University, AL (2020)
		- **Multilevel Modeling –** Coursework from Ph.D. degree, Auburn University, AL (2020)
	+ **Neuroscience Analysis -** Coursework from Ph.D. degree, Auburn University, AL (2020)
	+ **Biostatistics -** Coursework from Bachelor’s degree, Federal University of Rio Grande do Norte, Brazil (2018)

# TECHNICAL SKILLS

Programming Python and R

Data Analysis SPSS; R

Heart Rate Variability Kubios software

Qualtrics Development of surveys and survey workflows

Excel Organizing and managing data

Zotero Management of references for manuscripts

# REFERENCES

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* **Warren Bickel, Ph.D.,** Researcher Professor, Fralin Biomedical Research Institute at Virginia Tech Carilion, Roanoke, VA

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