

Leonardo A. **PEYRÉ-TARTARUGA**

CV Summary

Professor of Biomechanics and Bioenergetics of Terrestrial Locomotion; Efficiency and Economy of Human Movement (MSc and PhD) and Physical Training (undergraduation) in University of Pavia, Italy.

PhD in Human Movement Sciences at the UFRGS, Brazil.

Teaching experience: 'Professor temporário': UFRGS: Swimming; ULBRA: Exercise Physiology; FACOS: Human Anatomy, Kinesiology, Theory of Sport Training; FSG: Kinesiology, Measures and Evaluation in Sports.

Internationally based scientific activity: research fellow **CNPq-Brazil** (undergraduation, MSc and PhD) at UFRGS; visiting researcher **Capes-Brazil** with Prof. Alberto Minetti and Prof. Giovanni Cavagna at Istituto di Fisiologia Umana, **Univ. of Milan, Italy (UNIMI)**; research grant **CNR-Ev-K2** at Istituto di Fisiologia Umana, **UNIMI** (research expedition at Khumbu Valley, Nepal); visiting researcher short-duration with Prof. Jeanick Brisswalter at **Univ. of Toulon, France** **CNPq-Brazil; Agreement of Cooperation Brazil-Italy** with Prof. Alberto Minetti, Prof. Matteo Pecchiari, Prof. Cosme Buzzachera, and Prof. Federico Schena; **visiting researcher at Cerism/Rovereto, Italy**; Visiting Professor at Department of Biophysics at **Univ of the Republic, Uruguay**; PosDoc stage with Prof. Alberto Minetti (**UNIMI**) and Prof. Jonas Rubenson (**Penn State, USA**). Current international collaboration: Univ. of Louvain, Belgium; Univ. of Toulon, France; Univ. of Pavia, Verona and Milan, Italy; Univ. of Exeter, UK.

Ordinary Member: **European College of Sport Science, Brazilian College of Sport Sciences (CBCE)** and **Brazilian Society of Biomechanics.**

Editorial activity: Peer Community In – Registered Reports (recommender), **PeerJ** (Associate Editor), **Front Integr Physiol** (Associate Editor), **Plos One** (Academic Editor), **Gait Posture** (Editorial Board), **Front Exerc Physiol** (Review Editor), **Sport Sci Health** (Editorial Board), **Braz J Sport Sci** (Editorial Board), **Braz J Mot Behav** (Editorial Board), **J Exp Biol, Sports Med, BMJ Open, Int J Sports Med, J Sports Sci, Eur J Sport Sci, Scand J Med Sci Sports, J Sci Med Sport, Sports Med Int Open, Symmetry, Wilderness Environ Med, Sci Sports, J Aging Res, J Aging Phys Act, Int J Neurosci, Percept Mot Skills, Brain Cogn, Comput Biol Med, Hum Mov Sci, Eur J Physiother.**

MSc/PhD Thesis supervisor: PhD – 3 ongoing, 7 completed; MSc – 2 ongoing, 25 completed in Human Movement Sciences and Medicine: Respiratory Sciences, UFRGS.

Attracted funds (CNPq-Brazil, Capes-Brazil, Ministério do Esporte – Brazil, Fapergs-Brazil, Fipe-Hospital de Clínicas-Brazil, Ufrgs) - € **0.7 M.**

Supervisor Post-Doc: Human Movement and Respiratory Sciences (4), UFRGS.

Ex-President of Brazilian College of Sport Sciences (2009-2013), Ex-Director of Exercise Research Laboratory/ UFRGS (2014-2018).

PUBLICATIONS

- 102 articles (64 as 1st or last author, 1275 citations, h index = 21 WoS and Scopus).

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CURRICULUM VITAE ET STUDIORUM

January 2024

1 PERSONAL DATA

- Name:** Leonardo Alexandre Peyré Tartaruga
- Name in references:** Peyré-Tartaruga, L.A.
- Place and date of birth:** Porto Alegre (Brazil), July 13, 1976
- Electronic address:** leonardo.tartaruga@ufrgs.br and leonardo.tartaruga@unipv.it
- Personal web page:** https://sites.google.com/view/leotartaruga/initial_en
- Telephone:** +39 3533843286 (Italy, WhatsApp) // +55 51984063793
- Residence:** Via Luigi Giulotto 12, 27100, Pavia, Italy
Av. Francisco Trein, 868/102, 91350200, Porto Alegre, RS, Brazil
- Sci References:** Web of Science ResearcherID: C-7103-2013
ORCID: 0000-0003-1742-5016
- Current position:** Associate Professor at Department of Public Health, Experimental and Forensic Medicine; University of Pavia, Pavia, Italy
Professor of Biomechanics and Physiomechanics of Terrestrial Locomotion; Efficiency and Economy of Human Movement (MSc and PhD) at Graduate Program in Human Movement Sciences, Universidade Federal do Rio Grande do Sul (since 2008). Full Professor at PUCRS (Specialization in Biomechanics, 2017-current)
- National Scientific Qualification:** 28/01/2022 – 28/01/2032 “Abilitazione Scientifica Nazionale” (ANS)
(ASN, Italian) II Fascia - SC 06/N2 “Scienze dell’esercizio fisico e dello sport” – SSD M-EDF/02 “Metodi e didattiche delle attività sportive”
23/05/2023 AL 23/05/2034 “Abilitazione Scientifica Nazionale” (ANS)
I Fascia - SC 06/N2 “Scienze dell’esercizio fisico e dello sport” – SSD M-EDF/02 “Metodi e didattiche delle attività sportive”

2 EDUCATION

- 1995-2000 Undergraduation in Physical Education.
Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil.
- 2001-2003 Master in Human Movement Sciences- Physical activity and Performance.
Title: Physiologic and biomechanical effects of deep water running training on performance of elite runners
MSc course in Human Movement Sciences, Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil.
- 2005-2008 Doctor of Philosophy (PhD) in Human Movement Sciences: neuromechanics of movement.
Title: Energetics and Mechanics of Human Walking and Running: with special reference to gradient locomotion and aging effects.
PhD course in Human Movement Sciences, Universidade Federal do Rio Grande do Sul, Brazil. Tutor: Prof. Jefferson F. Loss.
Stage from March 2006 to February 2007 in the Istituto di Fisiologia Umana I, University of Milan, Italy. Tutors: Prof. Alberto E. Minetti and Prof. Giovanni A. Cavagna.
- 2009-2010 Pos-Doctor Stage at Center of Research: 'Sport, Montagna e Salute' (CERISM), University of Verona with Prof. Federico Schena and Prof. Alberto Minetti.
- 2015-2016 Pos-Doctor Stage at Locomotion PhysioMechanics Laboratory, University of Milan and Laboratory of Biomechanics, Penn State University with Prof. Alberto Minetti and Prof. Jonas Rubenson.
- 2021-2022 Visiting Professor at Locomotion PhysioMechanics Laboratory, University of Milan and Human Performance Laboratory, University of Pavia with Prof. Alberto Minetti and Prof. Cosme Buzzachera.

3 GENERAL DATA

Linguistic competences:

Mother tongue: **Portuguese**

Other idioms:

	Comprehension		Speaking		Written production
	listening	reading	interaction	oral production	oral
Spanish	Excellent	Excellent	Excellent	Excellent	Excellent
Italian	Excellent	Excellent	Excellent	Good	Very good
English	Very good	Excellent	Very good	Very good	Excellent

Programming languages: LabView (National Instruments), MatLab, R, Python and HTML.

Software used currently: Microsoft Office (Microsoft Corp), SPSS (SPSS Inc), Kaleidaphaph (Synergy Software), Keynote (Apple Inc), Jasp, Corel Draw (Graphics Suite), Labview (National Instruments), MatLab (MathWorks), Grapher (Apple Inc), R (R Core Team), Python (Python Software Foundation).

Fields of interests:

- Physiology and Biomechanics of Locomotion and Exercise
- Applied Physiology and Biomechanics of the Aquatic Exercise
- Biomechanics of Volleyball

Society affiliations:

- Brazilian College of Sport Science
- Brazilian Society of Biomechanics
- European College of Sport Science

Current international collaborations:

- Prof. Alberto E. Minetti, Università degli Studi di Milano, Italy
- Prof. Arthur Dewolf, Université Catholique de Louvain, Belgium
- Dr. Barbara Pellegrini, Università degli Studi di Verona, Italy
- Prof. Cosme F. Buzzachera, Università degli Studi di Pavia, Italy
- Prof. Dominic Farris, University of Exeter, UK
- Dr. Federico Formenti, King's College London, UK
- Prof. Federico Schena, Università degli Studi di Verona, Italy
- Prof. Gabriel Fabrica, Universidad de la República, Uruguay
- Dr. Gaspare Pavei, Università degli Studi di Milano, Italy
- Prof. Jean-Benoit Morin, University of Saint-Etienne, France
- Prof. Jonas Rubenson, Penn State University, USA
- Prof. Johnny Padulo, Università degli Studi di Milano, Italy
- Dr. Luca Paolo Ardigò, NLA University College, Norway
- Dr. Mathieu Gruet, University of Toulon, France
- Dr. Natalia A. Gomeñuka, Universidad Católica de Misiones, Argentina
- Prof. Paolo Cavallari, Università degli Studi di Milano, Italy
- Prof. Patrick Willems, Université Catholique de Louvain, Belgium
- Prof. Rodger Kram, University of Colorado, USA
- Dr. Woulter Hoogkamer, University of Colorado, USA

Current national collaborations:

- Prof. Alberito Carvalho, UNIOESTE, Cascavel
- Prof. Alessandro Zagatto, UNESP, Baurú
- Prof. Alexandro Andrade, UDESC, Florianópolis
- Prof. Aline N. Haas, UFRGS, Porto Alegre
- Prof. Aline Pagnussat, UFCSPA, Porto Alegre

- Prof. Elren P. Monteiro, UFPA, Castanhal
- Prof. Fernando Diefenthaler, UFSC, Florianópolis
- Prof. Flávia G. Martinez, UFRGS, Porto Alegre
- Prof. Gabriela Fischer, UFSC, Florianópolis
- Prof. Luiz Fernando M. Krueel, UFRGS, Porto Alegre
- Prof. Marco A. Vaz, UFRGS, Porto Alegre
- Prof. Marcus P. Tartaruga, UNICENTRO, Guarapuava
- Prof. Pedro Dall'ago, UFCSPA, Porto Alegre
- Prof. Rafael E. Baptista, PUCRS, Porto Alegre
- Prof. Regis G. Mestriner, PUCRS, Porto Alegre

4 ACADEMICAL HONORS

- 1999 **Award (principal author)** XI Undergraduation Research, Pro-Reitoria de Pesquisa da UFRGS.
- 1999 **Young researcher award (principal author)** from XI Undergraduation Research, Pro-Reitoria da UFRGS.
- 1999 **Vow of praise (principal author)**, Council of School of Physical Education / UFRGS.
- 2000 **Award (tutor)** from XI Undergraduation Research, Pro-Reitoria de Pesquisa da UFRGS.
- 2001 **Oral presentation award (co-author)** in Third position on "I Research in Physical Activity", from 30º ENAF.
- 2001 **Oral presentation award (co-author)** in First position on "Research in Physical Activity", from 30º ENAF.
- 2001 **II Award in Sport Literature Indesp (principal author)**, on Original articles category.
- 2009 **II CBCE award in scientific literature (principal author) - 2008/2009**, in First position on Biological and Health Sciences section, Brazilian College of Sport Sciences.
- 2010 **Award (tutor)** from XI Undergraduation Research, Pro-Reitoria de Pesquisa da UFRGS.
- 2014 **Award (tutor)** from XI Undergraduation Research, Pro-Reitoria de Pesquisa da UFRGS.
- 2015 **Award (tutor)** from XVII Undergraduation Research, Pro-Reitoria de Pesquisa da UFRGS.
- 2015 **Award (tutor)** from XVII Undergraduation Research, Pro-Reitoria de Pesquisa da UFRGS.
- 2016 **Oral presentation award (tutor)** with Honor Mention in VII Symposium in Applied Neuromechanics.
- 2017 **Oral presentation award (tutor)** with Honor Mention in XVII Brazilian Congress of Biomechanics. Effects of running speed on spectral content of vastus lateralis and gastrocnemius medialis muscles.
- 2017 **Oral presentation award (tutor)** with Honor Mention in XVII Brazilian Congress of Biomechanics. Effects of nordic and free Walking training on gait parameters in elderly: a RCT.
- 2017 **ERS Grant for Best Abstracts in Rehabilitation and Chronic Care (tutor)** in ERS International COngress 2017.
- 2017 **Third mission award (tutor)**, project: Running Group LOCOMOTION, Pro-Reitoria de Extensão, Universidade Federal do Rio Grande do Sul.
- 2017 **Tribute for the 10 years of the research group LOCOMOTION/UFRGS**, First Symposium in Physiomechanics of Terrestrial Locomotion.
- 2018 **Banner presentation award (tutor)**, XIV International Symposium on Physical Activity for aging.
- 2018 **Third mission award (tutor)**, project: TriLOCOMOTION Triathlon team, Pro-Reitoria de Extensão, Universidade Federal do Rio Grande do Sul.
- 2019 **Oral presentation award (tutor)** in II Symposium of PhysioMechanics of Terrestrial Locomotion -

- FISIOME2019. Effects of photobiomodulation therapy on the metabolic cost of distance runners.
- 2019 **Third mission award (participant)**, project: Dance & Parkinson, Pro-Reitoria de Extensão, Universidade Federal do Rio Grande do Sul.
- 2021 **Oral presentation award (tutor)** in II Brazilian Congress of Neurogenetics. Natural history of gait in hereditary spastic paraparesis: SPRS and timed functional tests.
- 2021 **Oral presentation award (tutor)** in XIX Brazilian Congress of Biomechanics. Comparison between two evaluation methods of shallow water Walking: conventional and neural networks of deep learning.
- 2023 **Top cited paper award from Clarivate Analytics 2021-2022**. Top cited articles published in an issue between 1 Jan 2021-15 Dec 2022. Peyré-Tartaruga et al., Exp Physiol, 2021.

5 PRODUCTION

a) *Articles published in international journals with peer review*

- 1 HAAS, A.N., DOS SANTOS DELABARY, M., PASSOS-MONTEIRO, E., WOLFFENBUTTEL, M., DONIDA, R.G., CASAL, M.Z., ZANARDI, A.P.J., RODRIGUES, L.P., MARTINEZ, F.G., **PEYRÉ-TARTARUGA, L.A.** The effects of Brazilian dance, deep-water exercise and nordic walking, pre-and post-12 weeks, on functional-motor and non-motor symptoms in trained PwPD. Archives of Gerontology and Geriatrics, 118: 105285, 2024. DOI: 10.1016/j.archger.2023.105285
- 2 IVANISKI-MELLO, A., ARCILA, D.M.C., DELLANNA, S., ALVES, L.L., MARTINEZ, F.G., BUZZACHERA, C.F., SAUTE, J.A.M., **PEYRÉ-TARTARUGA, L.A.** Postural adjustments and perceptual responses of Nordic running: Concurrent effects of poles and irregular terrain. European Journal of Applied Physiology, 2023. DOI: 10.1007/s00421-023-05397-9
- 3 ZAGATTO, A.M., GONZALEZ, J.A.M., POLI, R.A.B., BARBIERI, F.A., BLOEDOW, L.L.S., **PEYRÉ-TARTARUGA, L.A.** Mechanical energy on anaerobic capacity during a supramaximal treadmill running: is there influence between runners and active individuals? Physiological Reports, 11(5): e15564, 2023. DOI: 10.14814/phy2.15564
- 4 COERTJENS, M., COERTJENS, P.C., TARTARUGA, M.P., GORSKI, T., LIMA-SILVA, A.E., CARMINATTI, L.J., BEYER, P.O., DE ALMEIDA, A.P.V., GEREMIA, J.M., **PEYRÉ-TARTARUGA, L.A.**, KRUEL, L.F.M. Energetic responses of head-out water immersion at different temperatures during post-exercise recovery and its consequence on anaerobic mechanical power. European Journal of Applied Physiology, 1: 1-10, 2023. DOI: 10.1007/s00421-023-05265-6
- 5 **PEYRÉ-TARTARUGA, L.A.**, OLIVEIRA, H.B., DEWOLF, A.H., BUZZACHERA, C.F., MARTINEZ, F.G., IVANISKI-MELLO, A. Pendular mechanism determinants and elastic energy usage during walking of obese and non-obese children. Experimental Physiology, 1: 1-10, 2023. DOI: 10.1113/EP091408
- 6 ARCILA, D.M.C., MACHADO, G.D., MARTINS, V.F., LEOTTI, V.B., SCHULE, R., **PEYRÉ-TARTARUGA, L.A.**, SAUTE, J.A.M. Long-term progression of clinician-reported and gait performance outcomes in hereditary spastic paraplegias. Frontiers in Neuroscience, 17: 1-10, 2023. DOI: 10.3389/fnins.2023.1226479

- 7 HAAS, A.N., MARTINEZ, F.G., **PEYRÉ-TARTARUGA, L.A.** The effects of Brazilian Dance, Deep-water Exercise and Nordic Walking, pre- and post-12 weeks, on functional-motor and non-motor symptoms in trained PwPD. *Archives of Gerontology and Geriatrics*, 105285, 2023. DOI: 10.1016/j.archger.2023.105285
- 8 IVANISKI-MELLO, A., MULLER, V.T., ALVES, L.L., CASAL, M.Z., HAAS, A.N., CORREALE, L., KANITZ, A.C., MARTINS, V.F., GONCALVES, A.K., MARTINEZ, F.G., **PEYRÉ-TARTARUGA, L.A.** Determinants of dual-task gait speed in older adults with and without Parkinson's disease. *International Journal of Sports Medicine*, 1: 1-10, 2023. DOI: 10.1055/a-2085-1429
- 9 PADULO, J., BUGLIONE, A., LARION, A., ESPOSITO, F., DORIA, C., CULAR, D., DI PRAMPERO, P.E., **PEYRÉ-TARTARUGA, L.A.** Energy cost differences between marathon runners and soccer players: constant versus shuttle running. *Frontiers in Physiology*, 14: 1, 2023. DOI: 10.3389/fphys.2023.1159228
- 10 GRUET, M., BEHRENS, M., **PEYRÉ-TARTARUGA, L.A.** Improving exercise testing methods and interpretation in human health and diseases. *Frontiers in Physiology*, 14, p.573. 2023. DOI: 10.3389/fphys.2023.1188429
- 11 MARTINS, V.F., GOMEÑUKA, N.A., CORREALE, L., MARTINEZ, F.G., BUZZACHERA, C.F., GONÇALVES, A.K., **PEYRÉ-TARTARUGA, L.A.** Effects of aging on arm coordination at different walking speeds. *Gait & Posture*. 2023. DOI: 10.1016/j.gaitpost.2023.04.012
- 12 CULAR, D., BABIC, M., ZUBAC, D., KEZIC, A., MACAN, I., **PEYRÉ-TARTARUGA, L.A.**, CECCARINI, F., PADULO, J. Tensiomyography: from muscle assessment to talent identification tool. *Frontiers in Physiology*, 14: 1-10, 2023. DOI: 10.3389/fphys.2023.1163078
- 13 CUBILLOS ARCILA, D.M.C., MARTINS, V.F., ZANARDI, A.P.J., MACHADO, G.D., SEHNEM, L., BURGUEZ, D., GOMEÑUKA, N.A., **PEYRÉ-TARTARUGA, L.A.**, SAUTE, J.A.M. Static balance in hereditary spastic paraplegias: a cross-sectional study. *Cerebellum*, 2023. DOI: 10.1007/s12311-023-01518-4
- 14 MARTINS, V.F., TESIO, L., SIMONE, A., GONCALVES, A.K., **PEYRÉ-TARTARUGA, L.A.** Determinants of age-related decline in walking speed in older women. *PeerJ*, 11:e14728, 2023. DOI: 10.7717/peerj.14728
- 15 BERRIEL, G.P., CARDOSO, A.S., COSTA, R.R., DA ROSA, R.G., OLIVEIRA, H.B., KRUEL, L.F.M., **PEYRÉ-TARTARUGA, L.A.** Relationship between knee extensor and flexor muscle strength and age in professional volleyball players. *Sports Biomechanics*, 28: 1-12, 2022. DOI: 10.1080/14763141.2022.2146530
- 16 CORREALE, L., MONTOMOLI, C., BERGAMASCHI, R., IVANISKI-MELLO, A., **PEYRÉ-TARTARUGA, L.A.**, BUZZACHERA, C.F. Bilateral coordination of gait at self-selected and fast speed in patients with multiple sclerosis: a case-control study. *Multiple Sclerosis and Related Disorders*, 65: 104027-1, 2022.
- 17 MIGLIACCIO, G.M., FILIPPO, G., RUSSO, L., ORGIANA, T., ARDIGÒ, L.P., CASAL, M.Z., **PEYRÉ-TARTARUGA, L.A.**, PADULO, J. Effects of Mental Fatigue on Reaction Time in Sportsmen. *International Journal of Environmental Research and Public Health*, 19(21): 14360, 2022. DOI: 10.3390/ijerph192114360.
- 18 **PEYRÉ-TARTARUGA, L.A.**, BOCCIA, G., MARTINS, V.F., ZOPPIROLI, C., BORTOLAN, L., PELLEGRINI, B. Margins of stability and trunk coordination during Nordic walking. *Journal of Biomechanics*, 134: 111001, 2022. DOI: 10.1016/j.jbiomech.2022.111001
- 19 BERRIEL, G.P., CARDOSO, A.S., COSTA, R.R., DA ROSA, R.G., OLIVEIRA, H.B., KRUEL, L.F.M., **PEYRÉ-TARTARUGA, L.A.** Does complex training enhance vertical jump performance and muscle power in elite male volleyball players? *International Journal of Sports Physiology and Performance*, 17(4): 586-593, 2022. DOI: 10.1123/ijsp.2021-0187
- 20 **PEYRÉ-TARTARUGA, L.A.**, MARTINEZ, F.G., ZANARDI, A.P.J., CASAL, M.Z., DONIDA, R.G., PASSOS-MONTEIRO, E., COERTJENS, M., HAAS, A.N. Samba, deep water and poles: a framework for exercise

- prescription in Parkinson's disease. *Sport Sciences for Health*, 18(4): 1118-1127, 2022. DOI: 10.1007/s11332-022-00894-4
- 21 LANFERDINI, F.J., DIEFENTHAELER, F., ARDIGÒ, L.P., **PEYRÉ-TARTARUGA, L.A.**, PADULO, J. Editorial: Structural and mechanistic determinants of endurance performance. *Frontiers in Physiology*, 13:1035583, 2022. DOI: 10.3389/fphys.2022.1035583
 - 22 BERRIEL, G.P., CARDOSO, A.S., COSTA, R.R., DA ROSA, R.G., OLIVEIRA, H.B., **PEYRÉ-TARTARUGA, L.A.**, KRUEL, L.F.M. Effects of postactivation performance enhancement on vertical jump in high-level volleyball athletes. *Journal of Human Kinetics*, 82: 145-153, 2022. DOI: 10.2478/hukin-2022-0041
 - 23 LAZIĆ, A., KOCIC, M., TRAJKOVIĆ, N., POPA, C., **PEYRÉ-TARTARUGA, L.A.**, PADULO, J. Acute Effects of Caffeine on Overall Performance in Basketball Players: A Systematic Review. *Nutrients*, 14: 1930, 2022. DOI: 10.3390/nu14091930
 - 24 HAAS, A.N., PASSOS-MONTEIRO, E., DELABARY, M.S., MORATELLI, J., SCHUCH, F.B., CORREA, C.L., SONZA, A., GUIMARAES, A.C.A., **PEYRÉ-TARTARUGA, L.A.** Association between mental health and physical activity levels in people with Parkinson's disease during the COVID-19 pandemic: an observational cross-sectional survey in Brazil. *Sport Sciences for Health*, 14: 1-7, 2022. DOI: 10.1007/s11332-021-00868-y.
 - 25 MORATELLI, J.A., SONZA, A., HAAS, A.N., PASSOS-MONTEIRO, E., CORRÊA, C.L., **PEYRÉ-TARTARUGA, L.A.**, DELABARY, M.S., GUIMARÃES, A.C.A. Physical activity of individuals with Parkinson's in social isolation before and during the pandemic COVID-19. *Revista Brasileira de Atividade Física e Saúde*, 26: 1-8, 2022. DOI: 10.12820/rbafs.26e0237
 - 26 IVANISKI-MELLO, A., CASAL, M.Z., COSTA, R.R., ALBERTON, C.L., MARTINEZ, F.G., **PEYRÉ-TARTARUGA, L.A.** Quantifying physiological and biomechanical responses of shallow water walking: a systematic review and meta-analysis. *Research in Sports Medicine: An International Journal*, 1: 1-15, 2022. DOI: 10.1080/15438627.2021.2020786
 - 27 MACHADO, E., LANFERDINI, F.J., DA SILVA, E.S., GEREMIA, J.M., SONDA, F.C., FLETCHER, J.R., VAZ, M.A., **PEYRÉ-TARTARUGA, L.A.** Triceps Surae Muscle-Tendon Properties as Determinants of the Metabolic Cost in Trained Long-Distance Runners. *Frontiers in Physiology*, 12: 767445, 2022. DOI: 10.3389/fphys.2021.767445
 - 28 ESATBEYOGLU, F., KIN-ISLER, AYSE, **PEYRÉ-TARTARUGA, L.A.** Examination of the relationship among balance, physical activity and anthropometry in athletes with visual impairment. *Journal of Visual Impairment & Blindness*, 116:103-109, 2022. DOI: 10.1177/0145482X211073584
 - 29 **PEYRÉ-TARTARUGA, L.A.**, DEWOLF, A.H., DI PRAMPERO, P.E., FÁBRICA, G., MALATESTA, D., MINETTI, A.E., MONTE, A., PAVEI, G., SILVA-PEREYRA, V., WILLEMS, P.A., ZAMPARO, P. Mechanical work as a (key) determinant of energy cost in human locomotion: recent findings and future directions. *Experimental Physiology*, 106(9): 1897-1908, 2021. DOI: 10.1113/EP089313
 - 30 LEAL-NASCIMENTO, A.H., SILVA, E.S., ZANARDI, A.P.J., IVANISKI-MELLO, A., PASSOS-MONTEIRO, E., MARTINEZ, F.G., DE CARVALHO, A.R., BAPTISTA, R.R., **PEYRÉ-TARTARUGA, L.A.** Biomechanical responses of Nordic walking in people with Parkinson's disease. *Scandinavian Journal of Medicine & Science in Sports*, 32(2): 290-297, 2022. DOI: 10.1111/sms.14095
 - 31 CASAL, M Z., **PEYRÉ-TARTARUGA, L.A.**, ZANARDI, A.P.J., MELLO, A.I., ALVES, L.L., HAAS, A.N., MARTINEZ, F.G. Postural Adjustments and Biomechanics During Gait Initiation and Obstacle Negotiation: A Comparison Between Akinetic-Rigid and Hyperkinetic Parkinson's Disease. *Frontiers in Physiology*, v. 12, p. 1-1, 2021. DOI: 10.3389/fphys.2021.723628
 - 32 SCHONS, P., DA SILVA, E.S., COERTJENS, M., OLIVEIRA, H.B., FISCHER, G., COSTA, R.R., PREISSLER, A.A.B., KNORST, M.M., **PEYRÉ-TARTARUGA, L.A.** The relationship between height of

vertical jumps, functionality and fall episodes in patients with chronic obstructive pulmonary disease: A case-control study. *Experimental Gerontology*, 152: 111457, 2021. DOI: 10.1016/j.exger.2021.111457

- 33 DE OLIVEIRA, G.S., PINHEIRO, G.S., PROENÇA, I.C.T., BLEMBEEL, A., CASAL, M.Z., POCHMANN, D., **PEYRÉ-TARTARUGA, L.A.**, MARTINEZ, F.G., ARAÚJO, A.S., ELSNER, V., DANI, C. Aquatic exercise associated or not with grape juice consumption-modulated oxidative parameters in Parkinson disease patients: A randomized intervention study. *Heliyon*, 7: e06185, 2021. DOI: 10.1016/j.heliyon.2021.e06185
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f) **book translation**

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6 ACADEMIC ACTIVITY

a) **university teaching roles and assignments**

- 1 02/13/2016 - current: **Associate Professor (Professor Associado)** in the Universidade Federal do Rio Grande do Sul, responsible by the following courses:
 - Physical training (240 hours per year totaling 1280 hours) at the undergraduation course in Physical Education.
 - Physiomechanics of walking and running (totaling 200 hours) at the undergraduation course in Physical Education.
- 2 2017-current: **Lecturer in the course 'Gait Analysis'**, School of Specialization in Biomechanics in the Pontifícia Universidade Católica do Rio Grande do Sul (2017-2021, totaling 90 hours).
- 3 11/07/2013 - current: **Permanent Professor** of the Post-Graduate Program (Master Science and Philosophy Doctor) in Medicine: Respiratory Sciences of the Universidade Federal do Rio Grande do Sul responsible by the following course:
 - Exercise physiology (2 hours by year totaling 14 hours) on muscular evaluation and gait.
- 4 May 2009: **Lectures in the course 'Biomechanics of the soccer'**, School of Specialization in Soccer in the Universidade Federal do Rio Grande do Sul (totaling 16 hours).
- 5 From 08/04/2008 - current: **Permanent Professor** of the Post-Graduate Program (Master Science and Philosophy Doctor) in Human Movement Sciences of the Universidade Federal do Rio Grande do Sul responsible by the following courses:
 - Physiomechanics of the terrestrial locomotion (2017-2020, 60 hours per year totaling 240 hours).
 - Introduction to calculus and programation in Labview (2018, totaling 60 hours).
 - Mechanics and energetics of terrestrial locomotion (2008-2016, 30 hours in 2008, from 2009 onwards 60 hours per year, totaling 510 hours).

- Theoretical and experimental approaches in mechanics and energetics of terrestrial locomotion (2008-2009, 60 hour per year, totaling 120 hours).
 - Efficiency and economy of human movement (2011-2015, 60 hours per year, totaling 300 hours).
- 6 From 02/13/2008 to 02/12/2016: **Adjunct Professor (Professor Adjunto)** in the Universidade Federal do Rio Grande do Sul, responsible by the following courses:
 - Physical training (2008-2015, 180 hours in 2008, from 2009: 240 hours per year, totaling 1620 hours) in undergraduation course of Physical Education.
 - Introduction to Biomechanics (2007, totaling 60 hours) in undergraduation course of Physical Education.
 - 7 From 06/20/2006 to 02/12/2008: **Assistant Professor (Professor Assistente)** in the Universidade Federal do Rio Grande do Sul, responsible by the following courses:
 - 8 - Introduction to Biomechanics (2008, totaling 120 hours) in undergraduation course of Physical Education.
 - Athletics: techniques of learning (2007, totaling 180 hours) in undergraduation course of Physical Education.
 - Athletics: techniques of high level (2007, totaling 60 hours) in undergraduation course of Physical Education.
 - 9 2004: **Lecturer** in the School of Physical Education of Faculdade da Serra Gaúcha responsible by the following courses:
 - Functional measures and valuation (2004, totaling 120 hours) in undergraduation course of Physical Education.
 - Fitness programs (2004, totaling 60 hours) in undergraduation course of Physical Education.
 - Functional anatomy (2004, totaling 120 hours) in undergraduation course of Physical Education.
 - Professional stage in fitness (2004, totaling 60 hours) in undergraduation course of Physical Education.
 - 10 2004: **Lecturer** in the School of Physical Education of Universidade Luterana do Brasil, in the course of exercise physiology (totaling 120 hours).
 - 11 2003-2005: **Lectures** in the School of Physical Education of Faculdade Cenecista de Osório responsible by the following courses:
 - Human Anatomy (2003, totaling 60 hours) in undergraduation course of Physical Education.
 - Theory and methodology of sport training (2004-2005, totaling 180 hours) in undergraduation course of Physical Education.
 - Functional anatomy (2003, totaling 60 hours) in undergraduation course of Physical Education.
 - 12 From 06/03/2002 to 02/09/2004: **Lecturer** in the Universidade Federal do Rio Grande do Sul, responsible by the following courses:
 - Swimming-fundamentals (2002-2003, 240 hours per year, totaling 480 hours) in undergraduation course of Physical Education.
 - Swimming-techniques of learning (2002-2003, 240 hours per year, totaling 480 hours) in undergraduation course of Physical Education.

b) assignments and activities abroad

- 1 From december 2021 to July 2022: **Visiting Professor** in the Laboratorio di Fisiomeccanica della Locomozione of the University of Milan, Italy, and Human Performance Laboratory, University of Pavia, Italy, with Prof. Alberto E. Minetti and Prof. Cosme Buzzachera (full time).
- 2 January, February and July 2019: **Visiting Researcher** at the Center of Research 'Sport, Mountain and Health' of the University of Verona, Italy. Project: Biomechanics and Intergirdles control of Nordic walking, full-time. Call PIA-UNIVR-2018 (with Prof. Barbara Pellegrini).

- 3 From August 2015 to February 2016: **Pos doc** in the Laboratorio di Fisiomeccanica della Locomozione of the University of Milan, Italy, and Laboratory of Biomechanics, Penn State University, US, with Prof. Alberto E. Minetti and Prof. Jonas Rubenson (full time).
- 4 July 2015: **Visiting Professor** in the University of Toulon and University of Nice, France. Seminary: Biomechanics and bioenergetics of human locomotion (6 hours, totaling 1 month of work).
- 5 From December 2009 to February 2010: **Pos doc at the Center of Research 'Sport, Mountain and Health'** of the University of Verona, Italy with Prof. Federico Schena and Prof. Alberto E. Minetti (full time).
- 6 July 2009: **Visiting Professor** of the Department of Biophysics of the University of the Republic, Uruguay. Course: Efficiency and energetics of walking and running (totaling 30 hours).
- 7 From 2 to 5 February 2007: **Short-term visit** in the Locomotion Unit of the Catholic University of Leuven with Prof. Norman Heglund, Belgium (full time).
- 8 From 2 to 26 October 2006: **Scientific expedition in the Kumbu Valley/Nepal**, as researcher of the project 'EMG and metabolic cost of loaded walking in Nepalese porters', Committee Ev-K2-CNR/Italy and Nepal Academy of Science & Technology, Nepal (full time).
- 9 From March 2006 to February 2007: **PhD student Stage abroad in the Istituto di Fisiologia Umana I** of the University of Milan, Italy, with Prof. Giovanni A. Cavagna and Prof. Alberto E. Minetti (full time).
- 10 Direction to the activities of the research group LOCOMOTION - Mechanics and energetics of terrestrial locomotion characterized by collaborations at national (University of Piau , Santa Catarina, Centro-Oeste and Oeste do Estado do Paran , do Paran , S o Paulo, and Par ) and internationally (University of Milan, University of Pavia, University of Verona (Cerism, Rovereto), University of Toulon (France), Colorado University - Boulder (USA), Penn State University (USA), Universidad de la Republica del Uruguay, Universidad Catolica de la Misiones (Argentina). The research group is registered in the Brazilian National Research System (<http://dgp.cnpq.br/dgp/espelhogrupo/1110671514763311>) and has as its main objective to study the mechanical determinants of walking and running, using techniques from biomechanics and physiology. As part of these projects, motor activity courses are organized and run for people with diseases, mainly Parkinson's, based on aquatic running, dancing and Nordic walking activities and for healthy adult subjects (e.g., running and triathlon). Research results have been published in international indexed journals (Scopus and ISI) of which I list only the most representative: BERRIEL, G. P., CARDOSO, A. S., COSTA, R. R., DA ROSA, R. G., OLIVEIRA, H. B., KRUEL, Luiz Fernando Martins, PEYR -TARTARUGA, LEONARDO A. . Does Complex Training Enhance Vertical Jump Performance and Muscle Power in Elite Male Volleyball Players?. *International Journal of Sports Physiology and Performance*, v. 1, p. 1-8, 2022. IVANISKI-MELLO, A., CASAL, M. Z., COSTA, R. R., ALBERTON, Cristine Lima, MARTINEZ, F. G., PEYR -TARTARUGA, L. A. . Quantifying physiological and biomechanical responses of shallow water walking: a systematic review and meta-analysis. *Research in Sports Medicine*, v. 1, p. 1-15, 2022. STORNILOLO, J.L.L., FISCHER, G., BONA, R. L., PINHO, A. S., MOORHEAD, A. P., FINATTO, P., PEYR -TARTARUGA, L. A. . TRANSFER OF STRENGTH TRAINING TO RUNNING MECHANICS, ENERGETICS, AND EFFICIENCY. *BIOLOGY OF SPORT*, v. 39, p. 199-206, 2021. Gome uka, N.A., OLIVEIRA, H. B., SILVA, E. S., MONTEIRO, E. P., DA ROSA, R. G., DE CARVALHO, A.R., COSTA, R. R., PAZ, M. C. R., PELLEGRINI, BARBARA, Peyr -Tartaruga, Leonardo Alexandre . Nordic walking training in elderly, a randomized clinical trial. Part II: Biomechanical and metabolic adaptations. *SPORTS MEDICINE - OPEN (ONLINE)*, v. 6, p. 1, 2020.
- 11 Direction of an international scientific research team including Prof.s: Flavia G. Martinez, Aline N. Haas of the Universidade Federal do Rio Grande do Sul (UFRGS) - Porto Alegre - Brazil, Elren Passos-Monteiro from Universidade Federal do Par  (UFPA) - Castanhal - Brazil, Cosme Franklim Buzzachera, Cristina Montomoli and Roberto Bergamaschi from University of Pavia – Pavia – Italy, for a project regarding "Nordic Walking in People with Multiple Sclerosis (MUSCLE): Gait Biomechanical Outcomes of a Multicenter, Randomized Controlled Clinical Trial." This Activity resulted in the following publication: 1 - CORREALE, L., MONTOMOLI, C., BERGAMASCHI, R., IVANISKI-MELLO, A., PEYR -TARTARUGA, L.A., BUZZACHERA, C. F. Bilateral coordination of gait at self-selected and fast speed in patients with multiple sclerosis: a case-control study. *Multiple Sclerosis and Related Disorders*, p. 104027-1, 2022.

- 12 Direction of an international scientific research group including Profs: Fabio Lanferdini from Universidade Federal de Santa Maria (UFSM) – Santa Maria – Brazil, Fernando Diefenthaler and Gabriela Fischer from Universidade Federal de Santa Catarina (UFSC) – Florianópolis – Brazil, Jorge Storniolo from Università degli Studi di Milano – Milan – Italy, P. Rota from University of Trento – Trento – Italy, D.A. Low from Liverpool John Moores University – Liverpool – UK, M. Pühringer and S. Ring-Dimitriou from University of Salzburg, Salzburg, Austria, Laurent Mourot from University of Bourgogne Franche-Comté – Besançon – France, Luca Paolo Ardigo from University Hogskolen – Oslo – Norway, Marco Vaz e Alvaro Reischak-Oliveira from Universidade Federal do Rio Grande do Sul – Porto Alegre – Brazil, Natália Gomeñuka from Universidad Catolica de Misiones – Misiones - Argentina, for a project concerning the “Physiological determinants and the landing-takeoff asymmetries at different running patterns”. This activity has led to the publication of: 1 – LANFERDINI, FÁBIO J., DIEFENTHAELER, F., ARDIGÒ, L.P., PEYRÉ-TARTARUGA, L.A.; PADULO, J. . Editorial: Structural and mechanistic determinants of endurance performance. *Frontiers in Physiology*, v. 13, p. 1035583, 2022. 2 - STORNILOLO, J.L.L., FISCHER, G., BONA, R. L., PINHO, A. S., MOORHEAD, A. P., FINATTO, P., PEYRÉ-TARTARUGA, L. A. . Transfer Of Strength Training To Running Mechanics, Energetics, and Efficiency. *Biology of Sport*, V. 39, P. 199-206, 2021. 3 - LANFERDINI, F. J., SILVA, E. S., BOENO, F. P., SONDA, F. C., DA ROSA, R. G., QUEVEDO, R., BARONI, B. M., REISCHAK-OLIVEIRA, A., VAZ, M. A., PEYRÉ-TARTARUGA, L. A. Effect of photobiomodulation therapy on performance and running economy in runners: A randomized double-blinded placebo-controlled trial. *Journal of Sports Sciences*, v. 00, p. 1-8, 2021. 4 - LANFERDINI, FÁBIO J., SILVA, EDSON S., MACHADO, ESTHEVAN, FISCHER, GABRIELA, PEYRÉ-TARTARUGA, L.A. Physiological Predictors of Maximal Incremental Running Performance. *Frontiers in Physiology*, v. 11, p. 979, 2020. 5 - ZIGNOLI, A., FORNASIERO, A., ROTA, P., MUOLLO, V., PEYRÉ-TARTARUGA, L.A.; LOW, D. A., FONTANA, F. Y., BESSON, D., PUHRINGER, M., RING-DIMITRIOU, S., MOUROT, L. . Oxynet: a collective intelligence that detects ventilatory thresholds in cardiopulmonary exercise tests. *European Journal of Sport Science*, v. 00, p. 1-38, 2020. 6 - DA ROSA, R. G., OLIVEIRA, H. B., Gomeñuka, N.A., MASIERO, M. P. B., SILVA, E. S., ZANARDI, A. P. J., DE CARVALHO, A.R., SCHONS, P., PEYRÉ-TARTARUGA, L.A. Landing-Takeoff Asymmetries Applied to Running Mechanics: A New Perspective for Performance. *Frontiers in Physiology*, v. 10, p. 415, 2019. 7 – PAVEI, G., SEMINATI, E., STORNILOLO, J.L.L., PEYRÉ-TARTARUGA, L. A. . Estimates of Running Ground Reaction Force Parameters from Motion Analysis. *Journal of Applied Biomechanics*, v. 1, p. 1-21, 2016.
- 13 Direction of an international scientific research group including Profs: Flavia G. Martinez, Aline N. Haas and Carlos Rieder from Universidade Federal do Rio Grande do Sul (UFRGS) – Porto Alegre – Brazil, Elren Passos-Monteiro from Universidade Federal do Pará (UFPA) – Castanhal – Brazil, Felipe Schuch from Universidade Federal de Santa Maria (UFSM) – Santa Maria – Brazil, Aline Pagnussat from Universidade Federal de Ciências Médicas de Porto Alegre – Porto Alegre – Brazil, Jéssica Amaro Moratelli and Adriana Coutinho de Azevedo Guimarães from Universidade Federal de Santa Catarina – Florianópolis – Brazil, Clynton Lourenço Corrêa from Universidade Federal do Rio de Janeiro – Rio de Janeiro – Brazil, Rochelle R. Costa from Universidade de Brasília – Brasília – Brazil, Regis G. Mestriner and Rafael Reinmann Baptista from Pontifícia Universidade Católica do Rio Grande do Sul – Porto Alegre, Brazil, Marcelo Coertjens from Universidade Federal do Delta do Parnaíba – Parnaíba - Brazil, for a project concerning the "Effects of different physical therapies and dance on clinical-functional parameters, echographic muscle quality, pendulum gait mechanics and serum bdnf levels in older adults and parkinsonian disease patients with camptocormia or pisa syndrome." This activity has led to the publication of: 1 – PEYRÉ-TARTARUGA et al. *Sport Sciences for Health (Testo Stampato)*, p. 1, 2022. 2 – HAAS et al. *Sport Sciences For Health (Testo Stampato)*, v. 1, p. 1, 2022. 3 - MORATELLI, et al. *Revista Brasileira de Atividade Física e Saúde*, v. 26, p. 1-8, 2022. 4 - PEYRÉ-TARTARUGA et al. *Journal Of Biomechanics*, v. 1, p. 111001, 2022. 5 - CASAROTTO et al. *Scientia Medica (Porto Alegre. Online)*, v. 32, p. e39969-1, 2022. 6 – ZANARDI et al. *Scientific Reports*, v. 11, p. 00-0, 2021. 7 - DE OLIVEIRA et al. *HELIYON*, v. 7, p. e06185, 2021. 8 - CASAL et al. *Frontiers in Physiology*, v. 12, p. 1-1, 2021. 9 - NASCIMENTO et al. *Scandinavian Journal Of Medicine & Science In Sports*, v. 1, p. 1, 2021. 10 - GOMEÑUKA et al. *Sports Medicine - Open (Online)*, v. 6, p. 1, 2020. 11 - PASSOS-MONTEIRO et al. *Journal of Functional Morphology and Kinesiology*, v. 5, p. 82, 2020. 12 - GOMEÑUKA et al. *PLoS One*, v. 14, p. e0211472, 2019. 13 - MONTEIRO et al. *Clinical Biomechanics*, v. 1, p. 1, 2019. 14 - ZANARDI et al. *Symmetry-Basel*, v. 11, p. 1481, 2019. 15 - MONTEIRO et al. *Scandinavian Journal Of Medicine & Science In Sports*, v. 2016, p. n/a-n/a, 2016.
- 14 Direction of an international scientific research group including Profs: Jonas A.M. Saute from Universidade Federal do Rio Grande do Sul – Porto Alegre – Brazil, for a project concerning the "Natural History of Movement Disorders in Hereditary Spastic Paraparesis." This activity has led to the publication of: 1 – ARCILA, D. M. C., MARTINS, V. F., ZANARDI, A. P. J., MACHADO, G. D., SEHNEM, L., BURGUEZ, D.,

- Gomeňuka, N.A., PEYRÉ-TARTARUGA, L. A., SAUTE, J. A. M. . Static Balance in Hereditary Spastic Paraplegias: a Cross-sectional Study. *The Cerebellum*, v. 1, p. 1-15, 2023. 2 - ARCILA, D. M. C., MACHADO, G. D., SEHNEM, L., BURGUEZ, D., ZANARDI, A. P. J., MARTINS, V. F., PEYRÉ-TARTARUGA, LEONARDO, SAUTE, J. A. M. . Progression of Functional Gait in Hereditary Spastic Paraplegias. *Cerebellum*, p. 1, 2021.
- 15 Direction of an international scientific research group including Profs: Gabriela Fischer from Universidade Federal de Santa Catarina – Florianópolis – Brazil, Danilo Berton, Ricardo Gass, Bianca Feldman, Franciele Plachi, Debora Rutten, Nathalia Branco Schweitzer Mendes, Elisa Schroeder, Fernanda M Balzan, Marcelo B Gazzana and Marli Knorst from Universidade Federal do Rio Grande do Sul – Porto Alegre - Brazil, Matteo Pecchiari from Università degli Studi di Milano – Milano – Italy, Mathieu Gruet, Jean-Marc Vallier and Loui Mely from University of Toulon – Toulon – France, Natalia Andrea Gomeňuka from Universidad Catolica de Misiones – Posadas – Argentina, Alberito Rodrigo Carvalho from Universidade Estadual do Oeste do Paraná – Cascavel – Brazil, Marcelo Coertjens from Universidade Federal do Delta do Parnaíba – Parnaíba – Brazil, Rochelle R. Costa from Universidade de Brasília – Brasília – Brazil, for a project concerning the "Determinants of walking speed and jump in respiratory and metabolic diseases." This activity has led to the publication of: 1 – Oliveira, Henrique Bianchi, DA ROSA, RODRIGO GOMES, GOMEŃUKA, NATALIA ANDREA, CARVALHO, ALBERITO RODRIGO, DA COSTA, ROBERTO FERNANDES, PEYRÉ-TARTARUGA, LEONARDO ALEXANDRE . When mechanical work meets energetics: Obese versus non-obese children walking. *Experimental Physiology*, v. 1, p. EP088558, 2020. 2 - SCHONS, PEDRO, DA SILVA, EDSON SOARES, COERTJENS, Marcelo, Oliveira, Henrique Bianchi, FISCHER, GABRIELA, COSTA, ROCHELLE ROCHA, PREISSLER, ARTUR AVELINO BIRK, KNORST, MARLI MARIA, Peyré-Tartaruga, Leonardo Alexandre . The relationship between height of vertical jumps, functionality and fall episodes in patients with chronic obstructive pulmonary disease: A case-control study. *EXPERIMENTAL GERONTOLOGY*, v. 152, p. 111457, 2021. 3 - BERTON, D. C., GASS, R., FELDMANN, B., PLACHI, F., RUTTEN, D., MENDES, N. B. S., SCHROEDER, E., BALZAN, F. M., PEYRÉ-TARTARUGA, L.A., GAZZANA, M. . Responses to progressive exercise in subjects with chronic dyspnea and inspiratory muscle weakness. *Clinical Respiratory Journal*, v. 1, p. 1, 2020. 4 - SANSEVERINO, M. A., PECCHIARI, M., BERTON, D. C., BONA, R. L., QUEIROZ, F. B., GRUET, M., PEYRÉ-TARTARUGA, L.A. . Limiting Factors in Walking Performance of Subjects With COPD. *Respiratory Care*, v. 00, p. respcare.05768, 2017. 5 - GRUET, M., PEYRÉ-TARTARUGA, L.A., MELY, L., VALLIER, J. . The 1-Minute Sit-to-Stand Test in Adults With Cystic Fibrosis: Correlations With Cardiopulmonary Exercise Test, 6-Minute Walk Test, and Quadriceps Strength. *Respiratory Care*, v. 61, p. 00, 2016. 6 - FISCHER, G., QUEIROZ, F. B., BERTON, D. C., SCHONS, P., OLIVEIRA, H. B., COERTJENS, Marcelo, GRUET, M., PEYRÉ-TARTARUGA, LEONARDO ALEXANDRE . Factors influencing self-selected walking speed in fibrotic interstitial lung disease. *Scientific Reports*, v. 11, p. 12459, 2021. 7 - SILVA, P. F., RIBEIRO, P. A., BONA, R. L., PEYRÉ-TARTARUGA, L.A., RIBEIRO, J.P. . Ventilatory Determinants of Self-selected Walking Speed in Chronic Heart Failure. *Medicine and Science in Sports and Exercise*, v. 45, p. 415-419, 2013.
- 16 Direction of an international scientific research group including Profs: Daniel Boullousa dell'Universidad de Leon – Leon – Spagna, Marcus Peikriszwili Tartaruga dell'Universidade do Centro-Oeste do Paraná – Guarapuava – Brasile, Arthur H. Dewolf e Patrick A. Willems dell'Université Catholique de Louvain – Louvain-la-Neuve – Belgio, Pietro Enrico di Prampero dell'Università degli Studi di Udine – Udine – Italia, Carlos Gabriel Fábrica dell'Universidad de la Republica – Montevideo – Uruguay, Davide Malatesta dell'University of Lausanne – Lausanne – Svizzera, Alberto Enrico Minetti e Gaspare Pavei dell'Università degli Studi di Milano – Milano – Italia, Paola Zamparo dell'Università degli Studi di Verona – Verona – Italia, for a project concerning the "Mechanical determinants of gradient walking and running." This activity has led to the publication of: 1 – MELO, O. U., TARTARUGA, Marcus Peikriszwili, BORBA, E. F., BOULLOSA, D., SILVA, E. S., BERNARDO, R. T., COIMBRA, R., OLIVEIRA, H. B., DA ROSA, R. G., PEYRÉ-TARTARUGA, L. A. . Modelling 5-km Running Performance on Level and Hilly Terrains in Recreational Runners. *Biology*, v. 11, p. 789, 2022. 2 – PEYRÉ-TARTARUGA, LEONARDO A.; DEWOLF, ARTHUR H., DI PRAMPERO, PIETRO E., FÁBRICA, GABRIEL, MALATESTA, DAVIDE, MINETTI, ALBERTO E., MONTE, ANDREA, PAVEI, GASPARE, SILVA PEREYRA, VALENTINA, WILLEMS, PATRICK A., ZAMPARO, PAOLA . Mechanical work as a (key) determinant of energy cost in human locomotion: recent findings and future directions. *EXPERIMENTAL PHYSIOLOGY*, v. 1, p. EP089313, 2021. 3 - DA ROSA, R. G., OLIVEIRA, H. B., GOMEŃUKA, N.A., Peyré-Tartaruga, Leonardo Alexandre . Inclined Weight-Loaded Walking at Different Speeds: Pelvis-Shoulder Coordination, Trunk Movements and Cost of Transport. *JOURNAL OF MOTOR BEHAVIOR*, v. 1, p. 1-7, 2017. 4 - GOMEŃUKA, NATALIA ANDREA, BONA, RENATA LUISA, DA ROSA, RODRIGO GOMES, PEYRÉ-TARTARUGA, LEONARDO ALEXANDRE . The pendular mechanism does not determine the optimal speed of loaded walking on gradients. *Human Movement Science (Print)*, v. 47,

- p. 175-185, 2016. 5 - GOMEŇUKA, N. A., BONA, R. L., DA ROSA, R. G., PEYRÉ-TARTARUGA, L. A. . Adaptations to changing speed, load, and gradient in human walking: Cost of transport, optimal speed, and pendulum. *Scandinavian Journal of Medicine & Science in Sports*, v. 24, n. 3, p. e165-e173, 2013.
- 17 Direction of an international scientific research group including Profs: Luiz Fernando Martins Krueel and Eduardo L. Cadore from Universidade Federal do Rio Grande do Sul – Porto Alegre – Brazil, Rochelle R. Costa from Universidade de Brasília – Brasília – Brazil, Leonardo S. Fortes and Heloiana Faro from Universidade Federal da Paraíba – João Pessoa – Brazil, Alessandro M. Zagatto from Universidade Estadual de Baurú (UNESP) – Baurú – Brazil, Rodrigo Ramirez-Campillo from University of Los Lagos – Osorno – Chile, Javier Sanchez-Sanchez from Pontifical University of Salamanca – Salamanca – Spain, Fabio Y. Nakamura from Universidade da Maia – Maia – Portugal, Igor Setuain from Public University of Navarre – Pamplona – Spain, Ibai Garcia-Tabar from University of the Basque Country – Vitória – Spain, and Bruno Baroni from Universidade Federal de Ciências Médicas de Porto Alegre – Porto Alegre – Brazil, for a project concerning "Load training and jump biomechanics in elite volleyball players." This activity has led to the publication of: 1 – BERRIEL et al. Does Complex Training Enhance Vertical Jump Performance and Muscle Power in Elite Male Volleyball Players?. *International Journal of Sports Physiology and Performance*, v. 1, p. 1-8, 2022. 2 - BERRIEL et al. Luiz Fernando Martins, Peyré-Tartaruga, Leonardo Alexandre . Effects of postactivation performance enhancement on vertical jump in high-level volleyball athletes. *Journal of Human Kinetics*, v. 82, p. 145-153, 2022. 3 - FORTES et al. Can Prolongate Use of Social Media Immediately Before Training Worsen High Level Male Volleyball Players? Visuomotor Skills?. *Perceptual and Motor Skills*, v. 1, p. 1-14, 2022. 4 - BERRIEL et al. Relationship between knee extensor and flexor muscle strength and age in professional volleyball players. *Sports Biomechanics*, v. 1, p. 1-12, 2022. 5 - BERRIEL et al. Relationship between vertical jumping ability and endurance capacity with internal training loads in professional volleyball players during preseason. *Journal of Sports Medicine and Physical Fitness*, v. 00, p. 00-0, 2021. 6 - SETUAIN et al. Jump performance and mechanics after a regular training bout in elite volleyball players. *The Journal of Sports Medicine and Physical Fitness*, V. 1, p. 1, 2021. 7 - BERRIEL et al. Stress and recovery perception, creatine kinase levels, and performance parameters of male volleyball athletes in a preseason for a championship. *Sports Medicine - Open (Online)*, v. 6, p. 26, 2020. 8 - BERRIEL et al. Correlations Between Jump Performance in Block and Attack and the Performance in Official Games, Squat Jumps, and Countermovement Jumps of Professional Volleyball Players. *Journal of Strength and Conditioning Research*, v. Publish Ahead of Print, p. 00-00, 2020. 9 – SCHONS et al. The relationship between strength asymmetries and jumping performance in professional volleyball players. *Sports Biomechanics*, p. 1-12, 2018.

c) *referee and editorial activity*

- 1 **Editorial activity in indexed scientific journals:** Peer Community In – Registered Reports (Recommender), Plos ONE (Academic Editor), *Frontiers in Physiology: Integrative Physiology* (Associate Editor), *Gait & Posture* (Editorial Board), *Sport Science for Health* (Editorial Board), *Brazilian Journal of Sport Sciences* (Editorial Board), *Brazilian Journal of Motor Behavior* (Editorial Board).
- 2 **Reviewer in indexed scientific journals:**
 - Acta of Bioengineering and Biomechanics
 - Acta Scientiarum (UEM)
 - Aging Clinical and Experimental Research
 - American Journal of Human Biology
 - Archives of Physical Medicine and Rehabilitation
 - Biology
 - BMC Sports Science, Medicine and Rehabilitation
 - BMJ Open
 - Brain and Cognition
 - Brain Sciences
 - Brazilian Journal of Medical and Biological Research
 - Brazilian Journal of Motor Behavior
 - Clinical Trials in Degenerative Diseases

- Computers in Biology and Medicine
- Educational Gerontology
- European Journal of Physical and Rehabilitation Medicine
- European Journal of Physiotherapy
- European Journal of Sport Science
- Frontiers in Bioengineering and Biotechnology
- Frontiers in Medicine
- Frontiers in Neuroscience
- Frontiers in Physiology
- Frontiers in Psychology
- Frontiers in Sports and Active Living
- Gait & Posture
- Healthcare
- Human Movement
- Human Movement Science
- International Journal of Aquatic Research and Education
- International Journal of Chronic Obstructive Pulmonary Disease
- International Journal of Environmental Research and Public Health
- International Journal of Industrial Ergonomics
- International Journal of Molecular Sciences
- International Journal of Neuroscience
- International Journal of Sports Medicine
- International Journal of Sports Science & Coaching
- Journal of Aging and Physical Activity
- Journal of Aging Research
- Journal of Biomechanics
- Journal of Exercise Science & Fitness
- Journal of Experimental Biology
- Journal of Functional Morphology and Kinesiology
- Journal of Neurophysiology
- Journal of Neuroscience Research
- Journal of Personalized Medicine
- Journal of Rehabilitation and Assistive Technologies Engineering
- Journal of Science and Medicine in Sport
- Journal of Sports Medicine and Physical Fitness
- Journal of Sports Sciences
- Life
- Movement & Sport Sciences - Science & Motricité
- Motriz (Rio Claro)
- Nutrition Metabolism and Cardiovascular Diseases
- Obesity Facts
- Parkinsons Disease
- Peer Community In – Registered Reports
- PeerJ
- Perceptual and Motor Skills
- Plos One
- Psychiatry International
- Research in Sports Medicine
- Revista Brasileira de Ciências do Esporte
- Revista Brasileira de Fisioterapia
- Scandinavian Journal of Medicine & Science in Sports
- Science & Sports
- Scientific Reports
- Sensors
- Sports Biomechanics
- Sports Health
- Sports Medicine
- Sports Medicine International Open

- Sport Sciences for Health
- Symmetry
- Wilderness & Environmental Medicine (Print)

- 3 **Evaluator Ad Hoc** of the “Quacquarelli Symonds (QS) Global Academic Survey”. 2023.
- 4 **Evaluator** of abstracts in the special interest group: Elite Performance, in the XXI Brazilian Congress of Sports Sciences, Natal, Brazil, 2019.
- 5 **Evaluator Ad Hoc** of the “Comisión Sectorial de Investigación Científica”, Uruguay, from 2016, 2 projects.
- 6 **Evaluator Ad Hoc** of the “Fundação de Apoio à Pesquisa e à Inovação Tecnológica do Estado de Sergipe”, in the 2011, 1 project.
- 7 **Evaluator Ad Hoc** of the “Fundação de Amparo a Ciência e Tecnologia do Estado de Pernambuco”, from 2016 to current, 6 projects.
- 8 **Evaluator Ad Hoc** of the “European Commission - FP7-PEOPLE-2013-IEF”. 2013. European Commission. 1 project.
- 9 **Evaluator Ad Hoc** of the “Coordenação de Aperfeiçoamento de Pessoal de Nível Superior – CAPES”, from 2012, 15 applications of funding.
- 10 **Evaluation commission** of the “Premium Brazil of Sport, Leisure and Social Inclusion – 2nd edition”. 2010. Ministry of Sports, Brazilian Government.
- 11 **Evaluator of the “Prêmio Mérito Universitário**: Undergraduation level at Universidade de São Paulo – USP”, 2007. 1 study.
- 12 **Evaluator** of abstracts sent to 14^o Latin American Congress of Physical Education. **Coordinator** of the session of oral presentation, Capão da Canoa, Brazil, 2004.
- 13 **Coordinator and evaluator** of theme “Studies and debates on pedagogy at university: health sciences” in the III International Symposium of Superior Education, Caxias do Sul, Brazil, 2004.
- 14 **Member of scientific comission** of special interest group: high level performance of the Brazilian College of Sports Sciences, 2003-2005.
- 15 **Coordinator and member of scientific comission** of special interest group: elite performance of the Brazilian College of Sports Sciences during II South-Brazilian Congress of Sport Sciences, Criciúma, Brazil, 2004.
- 16 **Evaluator of** abstracts of the special interest group: Elite Performance, on XIII Brazilian Congress of Sports Sciences, Caxambu, Brazil, 2003.

d) Supervisor thesis/Director of studies

Undergraduation

From 2003 to current, tutor of 43 thesis of Physical Education in the Universidade Federal do Rio Grande do Sul, main arguments: Biomechanics and bioenergetics of human walking and running and exercise sciences.

Scientific initiation

From 2002 to current, tutor of 40 students of Physical Education in the Universidade Federal do Rio Grande do Sul, main arguments: Biomechanics and bioenergetics of human walking and running and exercise sciences.

Specialization level

From to current, tutor of 7 thesis of Specialization in the course of Kinesiology and Biomechanics, main arguments: Biomechanics and bioenergetics of human walking and running.

- Renan Coimbra (running speed at spontaneous cardiocomotor synchronism in long distance runners). 2017. Course of specialization in Biomechanics in the Pontifícia Universidade Católica do Rio Grande do Sul.
- Edson Soares da Silva (Gait in individuals with visual impairment – literature overview and new insights). 2017. Course of specialization in Biomechanics in the Pontifícia Universidade Católica do Rio Grande do Sul.
- Rodrigo Kessler (Estimates of speed for sprawling, pillar-erect and buttress erect postures of extinct archosauriforms). 2017. Course of specialization in Biomechanics in the Pontifícia Universidade Católica do Rio Grande do Sul.
- Renata Luiza Bona (Amputees walking in gradients: cost of transport and efficiency). 2009. Course of specialization in Kinesiology in the Universidade Federal do Rio Grande do Sul.
- Clarissa Pedrini Schuch (Mechanics and energetics of walking in children with cerebral palsy). 2008. Course of specialization in Kinesiology in the Universidade Federal do Rio Grande do Sul.
- Luciano Ferroni (Quantity of Physical Activity in HIV/AIDS subjects). 2009. Course of specialization in Kinesiology in the Universidade Federal do Rio Grande do Sul.
- Gustavo Soares (Parkinson Disease and Physical Activity). 2009. Course of specialization in Kinesiology in the Universidade Federal do Rio Grande do Sul.

Master of Science - MSc

From 2008 to current, main tutor of 26 thesis of Master of Science in Human Movement Sciences and Medicine: Respiratory Sciences in the Universidade Federal do Rio Grande do Sul, main arguments: Biomechanics and bioenergetics of human walking and running.

- Daiane Sandi. (Landing-takeoff asymmetries in different running patterns. 2021-current. MSc in Human Movement Sciences, UFRGS, Brazil.
- Leonardo Rossato Ribas. (Effects of downhill training on elastic mechanism and running economy in recreational runners). 2020-current. MSc in Human Movement Sciences, UFRGS, Brazil.
- Antonio Henrique Leal do Nascimento. (Pendular mechanism and external mechanical work during Nordic walking in people with Parkinson's disease). 2019-current. MSc in Human Movement Sciences, UFRGS, Brazil.
- Leonardo de los Santos Bloedow. (Validation of uphill sprint treadmill test for determining anaerobic power and capacity). 2018-current. MSc in Human Movement Sciences, UFRGS, Brazil.
- Edson Soares da Silva. (The effect of air resistance on mechanics and energetics of long distance running). 2018-current. MSc in Human Movement Sciences, UFRGS, Brazil.
- Marcela Zimmermann Casal. (Motor control and biomechanics of balance and locomotion in individuals with Parkinson's disease). 2018-current. MSc in Human Movement Sciences, UFRGS, Brazil.
- André Ivaniski Mello. (PhysioMechanics of shallow water walking: effects of immersion level). 2018-current. MSc in Human Movement Sciences, UFRGS, Brazil.
- Marcos P. Masiero (Responses of spring-mass model parameters during the continuous and interval running bouts at VO_{2max}). 2017-2019. MSc in Human Movement Sciences, UFRGS, Brazil.
- Ana Paula J. Zanardi (Analysis of walking mechanics in patients with femoropatellar pain in different speeds and gradients). 2017-2019. MSc in Human Movement Sciences, UFRGS, Brazil.
- Pedro Schons. (Explosive force in COPD individuals). 2015-2017. MSc in Respiratory Sciences, UFRGS, Brazil.
- Karen da Silva. (Effects of aquatic therapy on functional and gait biomechanics parameters in low back pain' subjects). 2014-2016. MSc in Human Movement Sciences, UFRGS, Brazil.
- Onécimo U.M. Mello. (Relationship between economy and performance running against biomechanical

- variables in long distance runners). 2014-2016. MSc in Human Movement Sciences, UFRGS, Brazil.
- Guilherme P. Berriel. (Potentiation pós-activation in high-level volleyball players: acute and chronic effects). 2014-2016. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Marcela Alves Sanseverino (Gait EMG cost, economy and kinematics in subjects with COPD). 2016-2018. MSc in Respiratory Sciences, UFRGS, Brazil.
 - Francisco Busolli de Queiroz (Metabolic and neuromuscular responses during walking in patients with interstitial pulmonar disease. 2015-2017. MSc in Respiratory Sciences, UFRGS, Brazil.
 - Paula Finatto (Effects of pilates training on running economy and biomechanics). 2013-2015. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Henrique Bianchi Oliveira. Effects of obesity on walking energetics and mechanics in children. 2012-2014. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Rodrigo Gomes da Rosa (Running efficiency and economy after cycling in elite triathletes). 2012-2014. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Elren Passos Monteiro (Clinical-functional and gait biomechanical aspects of Nordic walking in subjects with Parkinson' disease: a randomized controlled trial). 2012-2014. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Alex Fagundes (Effects of load on ventilatory threshold and VO_{2max} in runners). 2011-2013. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Jorge Luiz Lopes Storniolo Junior (Effects of concurrent training on efficiency and biomechanics of human running). 2011-2012. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Renata Luiza Bona (Effects of speed on cost of transport and efficiency walking in transfemural Amputees). 2010-2011. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Alberito Rodrigo (Pendular mecanism and energetic cost of walking in subjects with chronic lowback pain). 2010-2011. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Clarissa Pedrini Schuch (Mechanics and energetics of walking in people with encephalic vascular accident). 2009-2011. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Natalia Gomeñuka (Mechanical determinants of optimal speed during loaded walking in gradients). 2009-2011. MSc in Human Movement Sciences, UFRGS, Brazil.
 - Gabriela Fischer (Effect of fatigue on spring-mass parameters and landing-take-off asymmetries). 2008-2010. MSc in Human Movement Sciences, UFRGS, Brazil.

Doctor of Philosophy - PhD

From 2013 to current, tutor of 9 dissertations of Doctor of Philosophy in Human Movement Sciences and Medicine: Respiratory Sciences in the Universidade Federal do Rio Grande do Sul, main arguments: Biomechanics and bioenergetics of human walking and running.

- André Ivaniski Mello (Comparison of different physical-mathematical methods for determining mechanical work during human walking). 2021-current
- Marcela Zimmermann Casal. (Pendular mechanism and anticipatory postural adjustments during walking in Parkinson's disease). 2020-current. PhD in Human Movement Sciences, UFRGS, Brasile.
- Guilherme Pereira Berriel (Biomechanic determinants for the performance in attack and blocking jumps in volleyball players: the inverse dynamics approach). 2017-2021.
- Valeria Feijó Martins (Biomechanical responses active elderly gait for different training methods e for the fall history). 2017-2021.
- Marcelo Coertjens (Effects of apnea and muscle strength training on gait metabolic and mechanical parameters in COPD subjects. 2014-2018.
- Rodrigo Gomes da Rosa (Spring-mass Model and landing-takeoff asymmetries parameters in long-distance runners). 2014-2018.
- Alberito Rodrigo de Carvalho (Cardiolocomotor synchronization: repercussions on bioenergetic and biomechanic parameters in distance runners). 2014-2017.
- Patricia Dias Pantoja (Bioenergetics and biomechanics of resistive training (sled towing) in elite sprinters). 2014-2016.
- Natália Andrea Gomeñuka (Acute and chronic effects of Nordic and normal walking on mechanical, metabolic and neuromuscular parameters in elderly). 2013-2016.

f) *funds*

From 2009, recipient of research funds for the development of research projects, research internships abroad and support for scientific events in the area of sports sciences and exercise. Funds come mainly from the Brazilian National Research Council (CNPq), the Brazilian Ministry of Sports, the Rio Grande do Sul State Research Support Foundation (FAPERGS), and the Brazilian Higher Education Personnel Improvement Coordination (CAPES). The total amounts collected are approximately 620 thousand euros. I have been able (as a PI) to acquire a complete motion analysis system: Vicon, 8 infrared cams, 2 force platforms, one instrumented treadmill, EMG system (16 ch), and a portable gas analyzer (K5, Cosmed).

- Funds for internship in research projects under my supervision (walking and running science): 70 months payed to 12 undergraduate students – leader – PROPESQ-UFRGS 28000 (~€ 4590), 2013-2020.

- Funds for internship in outreach projects under my supervision (Nordic walking, running, and triathlon): 220 months payed to 20 undergraduate students – leader – PROREXT-UFRGS 92950.85 (~€ 15237), 2013-2020.

- Fund “Research Program for Brazilian Health System” – leader – PPSUS-FAPERGS 149750 (~ € 24549), 2020.

- Fund Print CAPES (Funding for internationalization of post graduation) – stage abroad for PhD candidate, senior visiting professor abroad, short-duration abroad visit – leader – (54600 reais, ~€ 13200), 2018/2019/2020.

- Fund “Gaucho Researcher” – leader – FAPERGS 25800 (~ € 6222), 2017.

- Fund for event organization: FISIOMECC2017: First Symposium on PhysioMechanics of Terrestrial Locomotion – leader – CNPq Brazil 30000,00 (~ € 5441). 2017.

- Fund “Research Program for Brazilian Health System” – leader – PPSUS-FAPERGS 92950.85 (~ € 22214,00), 2017.

- Fund “Research Universal” – leader – CNPq Brazil 11727,00 (~ € 2126,00) Project: The 3d trajectory of human body center of mass and muscular-tendon proprieties as predictors of effectiveness on long-distance running, 2016.

- Fund “Research projects in human locomotion applied to respiratory diseases”, Hospital de Clínicas Foundation 15000 reais (~ € 4355,00) – leader – 2013-2014.

- Fund per evento: “XVII Brazilian Congress of Sports Sciences” – leader – Ministry of Sport, Brazil 400000 reais (~ € 139485,00), 2011.

- Fund per evento “XVII Brazilian Congress of Sports Sciences” – leader – FAPERGS Brazil 40000 reais (~ € 13948,50), 2011.

- Fund “Research Project: Biomechanics of Tamandua mirim” – Collaborator – Pesquisador Gaúcho FAPERGS 92000 reais (~ € 30581,00), 2010.

- Fund “Editoration of Brazilian Journal of Sport Sciences FAPERGS Brazil” – leader – 23900 reais (~ € 8346,00), 2013.

- Fund for event organization: “XVIII Brazilian Congress of Sports Sciences” – leader – Ministry of Sport, Brazil 980000 reais (~ € 359238,00), 2013.

- Fund for event organization: “XVIII Brazilian Congress of Sports Sciences” – leader – CNPq Brazil 40000 reais (~ € 18948,00), 2013.

- Fund for event organization: “XVIII Brazilian Congress of Sports Sciences” – leader – CAPES Brazil 40000 reais (~ € 18948,00), 2013.
- Fund “Internationalization of post-graduation” FAPERGS Brazil - Collaborator – 91400 reais (~ € 30446,00), 2013.
- Fund “Research Universal” – leader – CNPq Brazil 22724 (~ € 7383,00) Project: Mechanics and energetics of human locomotion, 2013.
- Fund “Short duration stage” – leader – congress of ecss 2013 and visit to University of Toulon, France – CNPq Brazil 7600 reais (~ € 1700,00), 2013.
- Fund “Support Science Ufrgs – Prorext and Propesq” – leader – 3000 reais (~ € 971,00), 2010-2013.
- Fund “Recem Doutor” [early career researcher] – leader – FAPERGS 2500 reais (~ € 857,00), 2009.

g) *management assignments*

- **President of the Brazilian College of Sport Sciences** (2009-2013).

The Brazilian College of Sport Science is a scientific society that brings together Brazilian researchers linked to the area of Physical Education and Sport Sciences. and the society is made up of more than 2000 members, including researchers, coaches and students (undergraduate, MSc, PhD).

- **Director of Exercise Research Laboratory** at Universidade Federal do Rio Grande do Sul (2014-2018) and previously as vice-director (2011-2014).

The Exercise Research Laboratory is structured in the sectors of Physiology, Biochemistry, Biomechanics, Postural, Biodynamics, Plasticity and Neuromuscular occupying 200 square meters for 30 principal investigators, 300 undergraduate, MSc, PhD and 50 visiting researchers. Research projects are on average 200 per year. Furthermore, the Laboratory develops “third mission” projects for the community with biomechanical, physiological, neuromuscular and anthropometric evaluation and reaches approximately 300 people per year.

- **Coordinator of research group LOCOMOTION – Mechanics and energetics of terrestrial locomotion** (from 2008). The research group is registered in the Brazilian national research system (<http://dgp.cnpq.br/dgp/espelhogrupo/1110671514763311>) and has as its main objective to study the mechanical determinants of walking and running, using techniques of biomechanics and physiology. As part of these projects, motor activity courses are organized and managed for people with diseases, mainly Parkinson's, based on water running, dancing and Nordic walking activities and for healthy adults (eg running and triathlon).

- **Member of the research committee** of the Department of Physical Education, Physiotherapy and Dance of the Universidade Federal do Rio Grande do Sul (2012-2015).

- **Member of the teaching committee** of the Department of Physical Education, Physiotherapy and Dance of the Universidade Federal do Rio Grande do Sul (2012-2015).

- **National coordinator** of the Special Interest Group (elite performance) of the Brazilian College of Sport Sciences (2005-2009). I managed the coordination activities in the events (4 events) of the scientific society.

h) *organization of conferences and scientific events*

- **General coordinator** of the I Seminário on the Projeto de Pesquisa em Parkinson do Sistema Único de Saúde: PPSUS. 2018. 30 participants. (Local Congress).

- **Organizer** of the oral presentation session in the UFRGS Research Exhibition 2018: SIC - XXVIII SALÃO DE INICIAÇÃO CIENTÍFICA DA UFRGS. 110 participants. (Local Congress).
- **Organizer** of the oral presentation session in the UFRGS Research Exhibition 2017: SIC - XXIX SALÃO DE INICIAÇÃO CIENTÍFICA DA UFRGS. 100 participants. (Local Congress).
- **General coordinator** of the First Symposium of Physiomechanics of Locomotion - FISIOMECC2017. 92 participants. (National Congress).
- **General coordinator** of the First Regional Congress of Volleyball Coach [Primeiro Congresso Gaúcho de Treinadores de Voleibol]. 2016. 96 participants. (Regional Congress).
- **Organizer** of the oral presentation session in the UFRGS Research Exhibition 2016: SIC - XXVII SALÃO DE INICIAÇÃO CIENTÍFICA DA UFRGS. 92 participants. (Local Congress).
- **General coordinator** of the Mini-Symposium in Human Locomotion. 2016. 124 participants. (International Congress).
- **Coordinator** of the XVIII Congresso Brasileiro de Ciências do Esporte and V Congresso Internacional de Ciências do Esporte. 2013. 1886 participants. (International Congress).
- **Organizer** of the activities of the Brazilian College of Sport Sciences in the Annual Meeting of the Brazilian Society for the Advancement of Science [Reunião Anual da Sociedade Brasileira para o Progresso da Ciência]. 2012. 104 participants. (National Congress).
- **Coordinator** of the IV PERMANENT FÓRUM DE PÓS-GRADUAÇÃO EM EDUCAÇÃO FÍSICA DO CBCE - FPPGEF - CBCE. 2011. 117 participants. (National Congress).
- **General Coordinator** XVII CONGRESSO BRASILEIRO DE CIÊNCIAS DO ESPORTE AND IV CONGRESSO INTERNACIONAL DE CIÊNCIAS DO ESPORTE. 2011. 2304 participants. (International Congress).

i) third mission and outreach activities

- **Coordination** of the 'Regional Athletics Meeting' project [39567 - MEETING GAÚCHO DE ATLETISMO - LOCOMOTION / ESEFID / UFRGS 2019] with the participation of 150 athletes and 10 students.
- **Coordination** of the 'Nordic walking in people with Parkinson's disease and the elderly' project [Caminhada Nórdica em Pessoas com Doença de Parkinson and idosos]. 2013-2022. 30 participants a year and 6 students (4 undergraduate, 1 from MSc and 1 from PhD).
- **Coordination** of the 'Triathlon TriLocomotion Ufrgs' project [TRILOCOMOTION - TRIATLO UFRGS]. 2015-2022. 20 participants a year and 6 students (3 undergraduate, 2 from MSc and 1 from PhD).
- **Coordination** of the 'Biomechanical evaluation of the running' project [AVALIAÇÃO BIOMECÂNICA DA TÉCNICA DE CORRIDA]. 2013-2017. 50 participants a year and 6 students (3 undergraduate, 2 from MSc and 1 from PhD).
- **Coordination** of the project 'Locomotion running group' [Grupo de corrida Locomotion]. 2013-2022. 20 participants per year and 5 students (2 undergraduate, 2 from MSc and 1 from PhD).
- Aquatic cross-training training in runners and other sports modalities (soccer, fencing, judo). During 5 years, I **organized, periodized, applied and evaluated** aquatic training programs toward 100

athletes, with positive performance results. A summary of this experience and related scientific production is evident in my Master of Science thesis (Human Movement Sciences) . Such research led to the publication of: PEYRÉ-TARTARUGA, L.A.; TARTARUGA, Marcus Peikriszwili, LARRONDA, Ana Carolina Chaves, KRUEL, Luiz Fernando Martins . Comparação cinemática entre corrida em esteira rolante e corrida em piscina funda. *Lecturas Educación Física y Deportes*, Argentina - C INT, v. 10, n.79, 2004. PEYRÉ-TARTARUGA, L.A.; LARRONDA, Ana Carolina Chaves, LOSS, Jefferson Fagundes, KRUEL, Luiz Fernando Martins . Comparison of lower limb kinematics of middle-distance runners during treadmill running. In: XVIII Symposium International of Sports Biomechanics, 2000, Hong Kong. *Proceedings of XVIII Symposium International of Sports Biomechanics*, 2000. p. 89-93. PEYRÉ-TARTARUGA, L.A.; LARRONDA, Ana Carolina Chaves, TARTARUGA, Marcus Peikriszwili, KRUEL, Luiz Fernando Martins . Importance of the lower limbs for the horizontal velocity on treadmill running and on deep water running. In: XVIII Congress of the International Society of Biomechanics, 2001, Zurique. *Proceedings of XVIII Congress of the International Society of Biomechanics*. Zurique: ISB, 2001. PEYRÉ-TARTARUGA, L.A.; KRUEL, Luiz Fernando Martins . Deep water running: limits and possibilities to elite runners. *Revista Brasileira de Medicina do Esporte*, São Paulo, SP - A NAC, v. 12, p. 286-290, 2006. PEYRÉ-TARTARUGA, L.A.; TARTARUGA, Marcus Peikriszwili, COERTJENS, Marcelo, BLACK, Gabriela Lovis, OLIVEIRA, Álvaro Reischak, KRUEL, Luiz Fernando Martins . Physiologic and Kinematical Effects of Water Run Training on Running Performance. *International Journal of Aquatic Research and Education (Champaign, Ill.)*, v. 3, p. 135-150, 2009.

j) conferences and courses in scientific events

- **Invited conference** Youth in the perspective of the Olympic movement / YPOM2023 at Transilvania University of Brasov. Elastic mechanism and metabolic economy in distance runners. 2023. (Unitbv, Brasov, Romania).
- **Invited conference** Dipartimento di Sanità Pubblica, Medicina Sperimentale e Forense at University of Pavia. *PhysioMechanics of Nordic walking in the neurological diseases (FisioMeccanica della camminata Nordica nelle malattie neurologiche)*. 2023. (Unipv, Pavia, Italy).
- **Invited conference** Universidad de la Republica, Análisis 3D del movimiento de la rodilla para rehabilitación, evaluación perioperatoria y medicina del deporte. *Interjoint coordination during the gait (Coordinación interarticular durante la marcha)*. 2023. (Udelar, Montevideo, Uruguay).
- **Invited conference** International Congress of Human Movement Sciences – UFPA. *Jump biomechanics: findings in volleyball at real contexts*. 2022. (UFPA, Belém, Brazil).
- **Invited conference** Seminarium of the Locomotion Unit, Université Catholic de Louvain. *PhysioMechanical aspects of Nordic walking in people with Parkinson’s disease: Mechanistic insights and translational association*. 2022. (UCL, Louvain-la-Neuve, Belgium).
- **Invited conference** 1º Cycle of formation CBCE-SP – work group of sports training and physical activity and health [1º Ciclo de Formação do CBCE-SP - GTT’s Treinamento Esportivo e Atividade Física e Saúde]. *Professional practice and academic production [Prática profissional e produção acadêmica]*. 2022 (USP, São Paulo, Brazil).
- **Invited conference** Medical aspects of neurological diseases [Aspetti Medici delle malattie neurologiche]. *Nordic walking in people with Parkinson’s disease [Caminhada Nórdica em pessoas com doença de Parkinson]*. 2022. (UNIPV, Pavia, Italy).

- **Invited conference** Instrumentos de estimulación eléctrica neuro-muscular y rehabilitación de la rodilla. Evaluación neuromuscular mediante delay mecánico de fuerza isométrica del cuádriceps e Isquiosurales. 2022. (UDELAR, Montevideo, Uruguay).
- **Invited conference** Lives of Brazilian Society of Physical Activity and Health. Exercise & Parkinson: Recommendations in prescribing and controlling [Exercício e Parkinson: Recomendações para prescrição e controle]. 2022. (Rio de Janeiro, Brazil).
- **Invited conference** Youth in the perspective of the olympic movement. Nordic walking in people with Parkinson's disease as a kinesiotherapy modality. 2022. (UNITBV, Brasov, Romania).
- **Invited conference** 60 Cycle of conferences in physical activity, aging, and degenerative diseases. Nordic walking in Parkinson's disease: PhysioMechanics and adaptations to training. [Caminhada Nórdica na doença de Parkinson: Fisiomecânica e adaptações ao treinamento]. 2020. (UNESP-Baurú, Baurú, Brazil).
- **Invited conference** 'Lavori in Corso 2019' [Ongoing projects 2019] – UNIMI. Pelvic-scapular coordination on Nordic Walking. 2019. (Milan, Italy).
- **Invited conference** II Simpósio Anual da Liga de Neuroreabilitação: Reabilitação na Doença de Parkinson [Annual Symposium of Neurorehabilitation league: Rehabilitation on Parkinson's disease] – UFCPSA. 2019. (Porto Alegre, Brazil).
- **Invited conference** I Symposium in Physical activity and health - CEFID/UDESC. Roundtable on scientific production in human movement sciences. 2019. (Florianopolis, Brazil).
- **Invited seminar** at Department of Neuroscience, Biomedicine and Movement of University of Verona: Attività fisica negli anziani e nei soggetti con Parkinson: l'esperienza e i risultati dall'università federale del Rio Grande del Sud [Physical activity in elderly and individuals with Parkinson's Disease: the experience and results from UFRGS]. Febbraio 2019. (Verona, Italia).
- **Invited seminar** at Centro di Ricerca "Montagna, Sport e Salute" CeRiSM, University of Verona: Generalized Estimating Equations in clinical trials and longitudinal studies. 2019. (Rovereto, Italia).
- **Invited conference** I Symposium in Physical activity and health - CEFID/UDESC. The hegemonical scientific views in Human Movement Sciences. 2019. (Florianopolis, Brazil).
- **Invited conference** I Symposium on Parkinson's Disease of University of elderly/UNATI - PUCRS. Exercise and gait on Parkinson's disease. 2018. (Porto Alegre, Brazil).
- **Invited conference** IV Symposium on Sport and Exercise Psychology - CEFID/UDESC. Studies in locomotion: Limits and possibilities. 2018. (Florianopolis, Brazil).
- **Invited conference** 10th South-Brazilian Congress in Geriatry and Gerontology. Locomotor training in osteoporosis. 2017. (Bento Gonçalves, Brazil).
- **Invited conference** Fórum de Psicologia do esporte, do exercício físico e saúde. Psychological and non-motor symptoms after locomotor training. 2017. (Florianopolis, Brazil).
- **Invited conference** 1st Symposium of PhysioMechanics of Terrestrial Locomotion. Integrating Biomechanics and physiology. 2017. (Porto Alegre, Brazil).
- **Invited conference** 1st Symposium of PhysioMechanics of Terrestrial Locomotion. Turtle on Sprint: 10 years of Locomotion Group. 2017. (Porto Alegre, Brazil).

- **Invited conference** Service on Medical Genetics of Hospital de Clínicas de Porto Alegre: Biomechanical analysis of gait of Locomotor rehabilitation index as a tool to fight against movement disorders. 2017. (Porto Alegre, Brazil).
- **Invited course** su Biomechanical analysis of gait. XVII Brazilian Congress of Biomechanics. 2017. (Porto Alegre, Brazil).
- **Invited conference** 1st Gaucho Congress of Volleyball coaching. Science on/of Volleyball: theoretical aspects. 2016. (Porto Alegre, Brazil).
- **Invited conference** 6th International Congress Mountain, Sport and Health. Biomechanics of walking: combined effects of speed, slope and load. 2015. (Rovereto, Italy).
- **Invited conference** International Symposium of Innovation in Human Movement Analysis - from basic research to clinical practice. Movement analysis and its implications on locomotion energy. 2015. (Porto Alegre, Brazil).
- **Invited conference** 26º Brazilian Congress of Sports Medicine. Joint Symposium SBMEE/ABRAN - Immunodepression on athlete: the role of training. 2014. (Belo Horizonte, Brazil).
- **Invited conference** XXXIII National Symposium of Physical Education. Exercise and technologies. 2014. (Pelotas, Brazil).
- **Invited conference** XVIII Brazilian Congress of Sports Sciences and V International Congress of Sports Sciences: Biomechanic and bioenergetical aspects of running training: a scientific approach in the coalitization CENESP. 2013. (Brasília, Brazil).
- **Invited conference** I Interdisciplinary Seminar in Engineering - UNIFRA. Energetic and EMG cost of locomotion in Nepalese porters on Himalaia. 2012. (Santa Maria, Brazil).
- **Invited conference** II Seminar in Physical Education of Pantanal Mato-Grossense (II Seminário de Educação Física do Pantanal Mato-Grossense). From Sherpas and Charruas myths to paradigm of mechanisms minimizing: the human locomotion as multidisciplinary theme (Do mito dos Sherpas e Charruas ao paradigma dos mecanismos minimizadores: a locomoção humana como conteúdo multidisciplinar. 2012. (Grande Dourados, Brazil).
- **Invited conference** V Midwest Congress of Sports Sciences. Physical Education, Health and Quality of life? Practices and knowledgement production. 2012. (Goiânia, Brazil).
- **Invited conference** II Congresso Internacional de Motricidade da Serra Gaúcha. Energetic cost of human movement. 2010. (Caxias do Sul, Brazil).
- **Invited conference** III Northeast Congress of Sports Sciences. Energetics of locomotion: internal and external constraints. 2010. (Fortaleza, Brazil).
- **Invited conference** II Symposium of Physical Education Faculty of UFG/CAC. The knowledgement production as integrative element in undergratuation course of Physical Education. 2010. (Catalão, Brazil).
- **Invited conference** V Paranaense Congress of Physiotherapy. Mechanic and energetical basis of human Locomotion: applications on physiotherapy. 2010. (Cascavel, Brazil).
- **Invited conference** I Seminarium of Biomechanics in MERCOSUR. Kinematical comparison between treadmill and deep water running. 2004. (Montevideo, Uruguay).

- **Invited conference** I Seminarium of Biomechanics in MERCOSUR. Relationship between running kinematics and economy versus performance in distance runners. 2004. (Montevideo, Uruguay).

k) internal/external examiner for PhD and Master Viva

Doctoral Thesis

- Aline de Souza Pagnussat. Ufrgs, Biological Sciences: Neurosciences, 2009.
- Joelly Mahnic de Toledo (half-time Qualifying). Ufrgs, Human Movement Sciences, 2009.
- Taís Malysz Sarzenski. Ufrgs, Biological Sciences: Neurosciences, 2009.
- Alexandre Liparini (half-time Qualifying). Ufrgs. Geosciences: Paleontology, 2016.
- Christine Lima Alberton. Ufrgs, Human Movement Sciences, 2011.
- Pedro Ivo Kalil-Gaspar. Ufrgs, Biological Sciences: Physiology, 2011.
- Alexandre Liparini Campos. Ufrgs, Geosciences: Paleontology, 2011.
- Joelly Mahnic de Toledo. Ufrgs, Human Movement Sciences, 2012.
- Ricardo Brandt (half-time qualifying). Udesc. Human Movement Sciences, 2012.
- Stephanie Santana Pinto. Ufrgs, Human Movement Sciences, 2013.
- Marcus Peikriszwili Tartaruga. Ufrgs and Université de Nice Sophia Antipolis, Human Movement Sciences, 2013.
- Ricardo Peterson Silveira. (half-time Qualifying). Ufrgs, Human Movement Sciences, 2014.
- Maick da Silveira Viana. Udesc, Human Movement Sciences, 2014.
- Carolina de Ávila Rodrigues. (half-time Qualifying) Ufrgs, Human Movement Sciences, 2014.
- Thiago Sousa Matias (half-time Qualifying and final). Udesc. Human Movement Sciences, 2016.
- Morgan Guignard (half-time Qualifying). Ufrgs. Geosciences: Paleontology, 2016.
- Carolina de Ávila Rodrigues. Ufrgs, Human Movement Sciences, 2016.
- Ricardo Peterson Silveira. Ufrgs and University of Verona, Human Movement Sciences, 2016.
- Beatriz Dittrich Schmitt (half-time Qualifying). Ufrgs, Human Movement Sciences, 2017.
- Danilo Reis Coimbra. Udesc. Human Movement Sciences, 2017.
- Daiane Borba de Lima. Pucrs. Molecular and Cellular Biology, 2017.
- Ricardo de Azevedo Klumb Steffens. Udesc. Human Movement Sciences, 2017.
- Daiene Elisa Loss. Ufrgs. Animal Medicine: Equine, 2018.
- Lucas Antonio Heinen Schuster. Ufrgs. Veterinary Sciences. 2018.
- Pedro de Orleans Casagrande. Udesc. Human Movement Sciences, 2019.
- Wellington Feitosa. Ufrgs. Human Movement Sciences, 2019.
- Danilo Reis Coimbra. Udesc. Human Movement Sciences, 2019.
- Ricardo de Assis Correia. Ufrgs. Human Movement Sciences, 2021.
- Henrique Bianchi Oliveira. Ufrgs. Human Movement Sciences, 2021.
- Anelise Ineu Figueiredo. Pucrs. Biomedical Gerontology, 2021.

Master Dissertation

- Jocelito Bijoldo Martins. Ufrgs. Human Movement Sciences. 2009.
- Viviane Zechlinski Sacharuk. Ufrgs, Biological Sciences: Neurosciences, 2009.
- Artur Bonezi dos Santos. Ufrgs. Human Movement Sciences. 2010.
- Núbia Broetto Cunha. Ufrgs, Biological Sciences: Neurosciences, 2010.
- Thiago Souza Matias. Udesc. Human Movement Sciences. 2010.
- Caroline Cabral Robinson. Ufrgs, Biological Sciences: Neurosciences, 2011.
- Gabriela Tomedi Leites. Ufrgs. Human Movement Sciences. 2011.
- Caroline Cabral Robinson. Biological Sciences: Neurosciences. 2011.
- Gabriela Tomedi Leites. Ufrgs. Human Movement Sciences. 2011.

- Leandro Medeiros da Silva. Ufrgs. Mining, Metallurgical and Material Engineering. 2011.
- Amanda Haberland Antunes. Ufrgs. Human Movement Sciences. 2011.
- Karlyse Claudino Bell. Ufrgs. Medicine: Cardiovascular Sciences. 2012.
- Cristiano Cardoso de Matos. Ufrgs. Human Movement Sciences. 2012.
- Paulo Sérgio Bazile da Silva. Ufcspa. Rehabilitation Sciences. 2013.
- Tania Brusque Crocetta. Udesc. Human Movement Sciences. 2014.
- Nathalie Ribeiro Artigas. Ufcspa. Rehabilitation Sciences. 2014.
- Alvaro Acco Koslowski. Ufrgs. Human Movement Sciences. 2014.
- Cláudia Arab. Udesc. Human Movement Sciences. 2014.
- Rodrigo Batalha Silva. Udesc. Human Movement Sciences. 2014.
- Ligia Ignêz Engelman de Oliveira. Ufrgs. Human Movement Sciences. 2014.
- Alessandra Ventura da Silva. Ufrgs. Veterinary Sciences. 2015.
- Giulia Palermo Schifino. Ufcspa. Rehabilitation Sciences. 2016.
- Tiago Canal Jacques. Ufrgs. Human Movement Sciences. 2016.
- Natália Carvalho Bagatini. Ufrgs. Human Movement Sciences. 2016.
- Guilherme Guimarães Bevilacqua. Udesc. Human Movement Sciences. 2017.
- Maria Eduarda Parcianello Cabeleira. Ufcspa. Rehabilitation Sciences. 2017.
- Diana Maria Cubillos Arcila. Ufcspa. Rehabilitation Sciences. 2017.
- Inaê Angélica Cherobin. Respiratory Sciences. 2017.
- Marilley Nohely Bonilla Jaén. Ufcspa. Rehabilitation Sciences. 2018.
- Joel Abraham Martinez Gonzalez. Unesp-Baurú. Motricity Sciences. 2018.
- Alexandre Nascimento. Udesc. Human Movement Sciences. 2018.
- Ananda Silveira Cardoso. Ufrgs. Human Movement Sciences. 2018.
- Bruna Machado Barroso. Ufrgs. Human Movement Sciences. 2018.
- Tiago Benetti. Pucrs. Computer Sciences. 2018.
- Sofia Mendes Scieczkowska. Udesc. Human Movement Sciences. 2019.
- Fabiane de Oliveira Brauner. Pucrs. Biomedical Gerontology. 2019.
- Edson Gonsales da Cruz Filho. Uel. Physical Education. 2019.
- Marília Gomes da Silva. Ufms. Functional Rehabilitation. 2020.
- Paulo Henrique Pauli. Ufpr. Physical Education. 2020.
- Anita Falk Giuliano. Ufrgs. Human Movement Sciences. 2020.
- Ana Maria Bender Seidenfuss das Neves. Pucrs. Electrical Engineering. 2020.

I) scientific and technological innovation

- Collaboration with 'spin off' Movi-technology para la vida, studying and validating the Dinabang tool. <https://www.movi-ing.com/> Movi is a spin off created together with the department of biomedical engineering de la Universidad de la Republica (UDELAR) of Uruguay.
- Participation of the study and publication of work related to the creation of collective artificial intelligence Oxynet to identify metabolic thresholds calculated from the aerobic maximal test (VO2max test) <https://doi.org/10.1080/17461391.2020.1866081>
- Development of a markerless technology for use in kinematics studies of shallow water walking published in the International Society of Sports Biomechanics international conference (<https://github.com/andreivaniskimello/Gait-Analysis>) and <https://commons.nmu.edu/cgi/viewcontent.cgi?article=2272&context=isbs> and with award-winning work in the Brazilian and South American Biomechanics 2021 conference.