

Lucas de Souza Veras

Curriculum Vitae

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Education

2019-Present **PhD in Physical Activity and Health**, Faculty of Sports, University of Porto

2017-2019 **Master's Degree in Physical Activity and Health**, Faculty of Sports, University of Porto

2012-2015 **Bachelor's Degree in Physical Education**, Faculty Estácio of Alagoas

Publications

Peer-reviewed articles

1. Accelerometer-based prediction of skeletal mechanical loading during walking in normal weight to severely obese subjects.
Veras L, Diniz-Sousa F, Boppre G, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H.
Osteoporosis International, 2020, doi: 10.1007/s00198-020-05295-2.
2. Accelerometry calibration in people with class II-III obesity: Energy expenditure prediction and physical activity intensity identification.
Diniz-Sousa F, **Veras L**, Ribeiro JC, Boppre G, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H.
Gait and Posture, 2020, doi: 10.1016/j.gaitpost.2019.11.008.

Conference proceedings

1. Accelerometer calibration: The importance of individual resting metabolic rate measurement to correctly identify moderate-to-vigorous physical activity intensity.
Veras L, Diniz-Sousa F, Boppre G, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H.
In: 23rd Portuguese Congress of Obesity – Braga, Portugal (2019)
2. Moderate-to-vigorous physical activity intensity cut-point for walking steps in patients with class II-III obesity.
Veras L, Diniz-Sousa F, Boppre G, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H.
In: 23rd Portuguese Congress of Obesity – Braga, Portugal (2019)
3. Is the correct accelerometer placement at the waist such a big deal?
Veras L, Diniz-Sousa F, Boppre G, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H.
In: 23rd Portuguese Congress of Obesity – Braga, Portugal (2019)

4. The effect of ActiGraph filtering on raw acceleration metrics and its influence on energy expenditure prediction accuracy.
Veras L, Diniz-Sousa F, Boppre G, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H.
 In: 23rd Portuguese Congress of Obesity – Braga, Portugal (2019)
5. development of walking energy expenditure prediction models for patients with severe obesity based on raw acceleration and its comparison with those developed for non-obese subjects.
Veras L, Diniz-Sousa F, Boppre G, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H.
 In: 23rd Portuguese Congress of Obesity – Braga, Portugal (2019)
6. Effectiveness of an exercise intervention program on the prevention of bone mineral density loss 1-year after bariatric surgery: BaSEIB clinical trial.
 Diniz-Sousa F, Boppre G, Vilares A, **Veras L**, Seixas E, Pereira F, Granja T, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H.
 In: 23rd Portuguese Congress of Obesity – Braga, Portugal (2019)
7. Exercise training effectiveness on the improvement of clinical cardiometabolic risk factors after Roux-en-Y Gastric Bypass: A systematic review and meta-analysis.
 Boppre G, Diniz-Sousa F, **Veras L**, Oliveira J, Fonseca H.
 In: 23rd Portuguese Congress of Obesity – Braga, Portugal (2019)
8. Estimation of ground reaction forces during walking in adult patients with class II-III obesity based on accelerometer data.
Veras L, Diniz-Sousa F, Boppre G, Devezas V, Santos-Sousa H, Preto J, Machado L, Vilas-Boas JP, Oliveira J, Fonseca H. In: 22nd Portuguese Congress of Obesity – Lisboa, Portugal (2018)

Thesis

1. Master's Thesis

Calibration and validation of accelerometers: Establishing new equations for energy expenditure and ground reaction force prediction.

Awards

2019 **Best communication in Physical Activity, 23rd Portuguese Congress of Obesity:**

Effectiveness of an exercise intervention program on the prevention of bone mineral density loss 1-year after bariatric surgery: BaSEIB clinical trial.

Diniz-Sousa F, Boppre G, Vilares A, **Veras L**, Seixas E, Pereira F, Granja T, Devezas V, Santos-Sousa H, Preto J, Machado L, Vias-Boas JP, Oliveira J, Fonseca H.

Software

Experience: R, Python, Matlab, Git, L^AT_EX