### Accepted Manuscript

A computational algorithm for classifying step and spin turns using pelvic center of mass trajectory and foot position

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PII: S0021-9290(17)30036-2

DOI: http://dx.doi.org/10.1016/j.jbiomech.2017.01.023

Reference: BM 8095

To appear in: *Journal of Biomechanics* 

Accepted Date: 14 January 2017



Please cite this article as: P.R. Golyski, B.D. Hendershot, A computational algorithm for classifying step and spin turns using pelvic center of mass trajectory and foot position, *Journal of Biomechanics* (2017), doi: http://dx.doi.org/10.1016/j.jbiomech.2017.01.023

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**Title:** A computational algorithm for classifying step and spin turns using pelvic center of mass trajectory and foot position

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**Main Text Word Count: 2130** 

**Abstract Word Count: 250** 

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