

Abstract Submitted  
for the OSS18 Meeting of  
The American Physical Society

**Using machine learning to predict integrating computation into physics courses** NICHOLAS YOUNG, MARCOS D. CABALLERO, Michigan State University — We recently completed a national survey of faculty in physics departments to understand the state of computational instruction and the factors that underlie that instruction. We then used supervised learning to explore the factors that are most predictive of whether a faculty member decides to include computation in their physics courses. We find that personal, attitudinal, and departmental factors vary in usefulness for predicting whether faculty include computation in their courses. We will present the least and most predictive personal, attitudinal, and departmental factors.

Nicholas Young  
Michigan State University

Date submitted: 19 Mar 2018

Electronic form version 1.4