Supplementary Material for "Supervised Learning of Physical Activity Features from Functional Accelerometer Data"

Margaret Banker and Peter X.K. Song

SUPPLEMENTARY FIGURES

24 Hour Accelerometer Data One of the first of the first

Fig. S1. Accelerometer Data for an individual over a 24 hour period. The horizontal lines indicate activity categorization cutoffs based on Chandler Vector Magnitude cutoffs for 1-minute epochs [6]. These cutoffs are predetermined by in-lab supervised research, and now applied to a free-living subject.

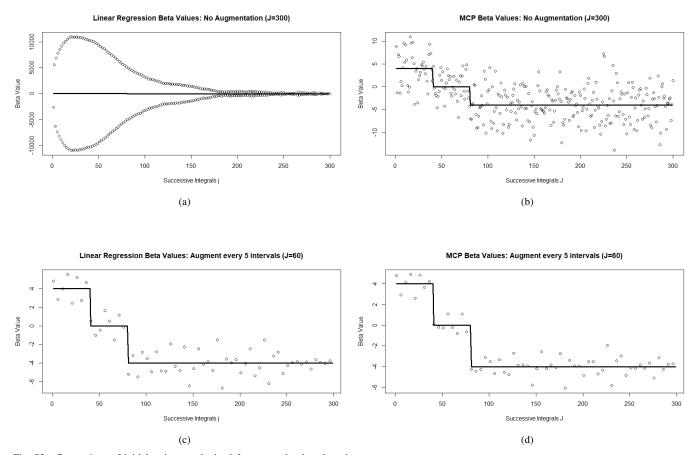


Fig. S2. Comparison of initial estimates obtained from a randomly selected simulation dataset of $\beta_j,\ j=1,\cdots,J$ with/without the MCP Penalty and with/without augmentation by 5 intervals (J=300, 60 respectively). The true $\beta(c)$ is shown as the piece-wise horizontal function, whose visually flat pattern in (a) is due to the scale of the beta values.