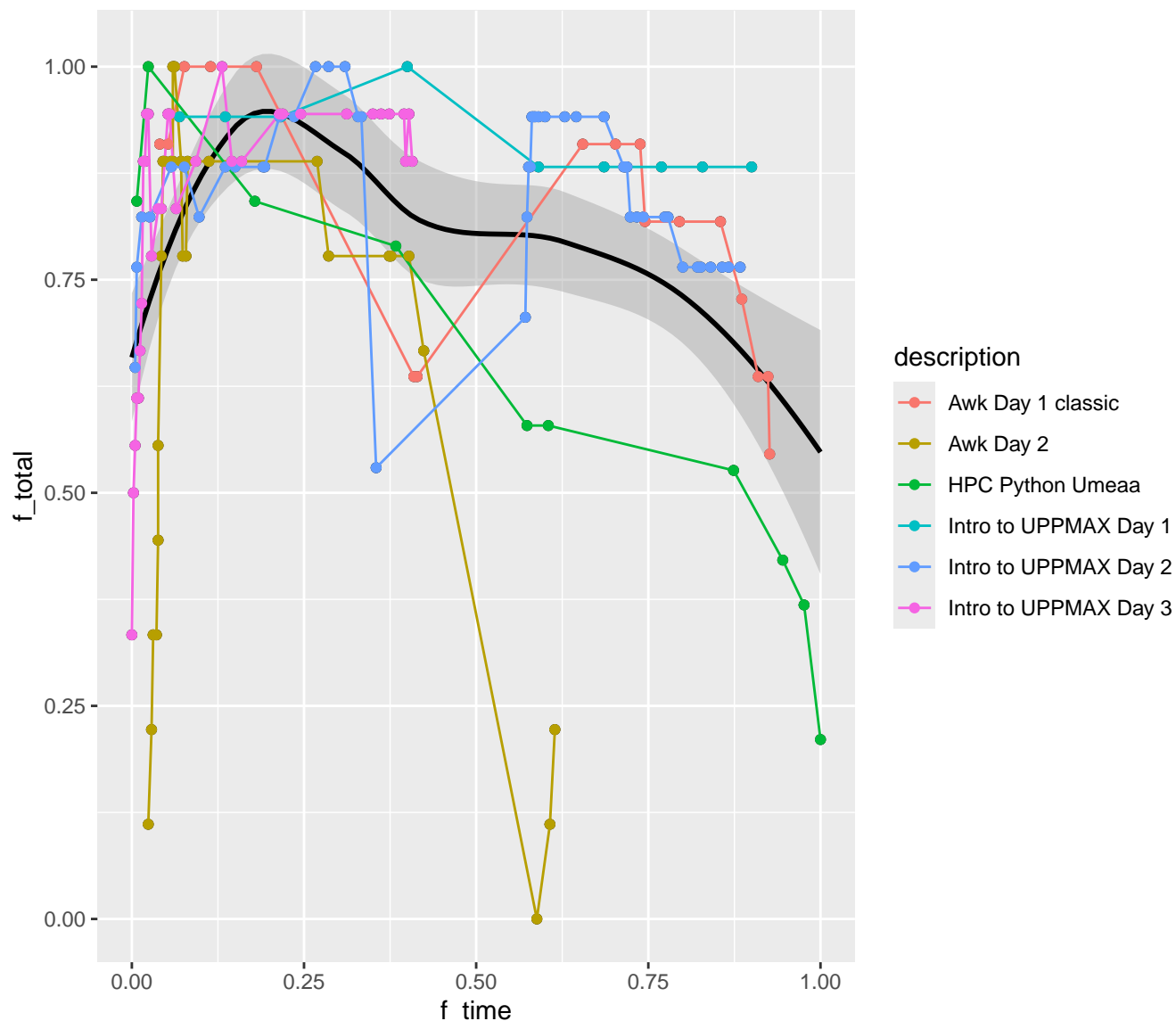


# Fraction of learners present in time under lesson time

Per course



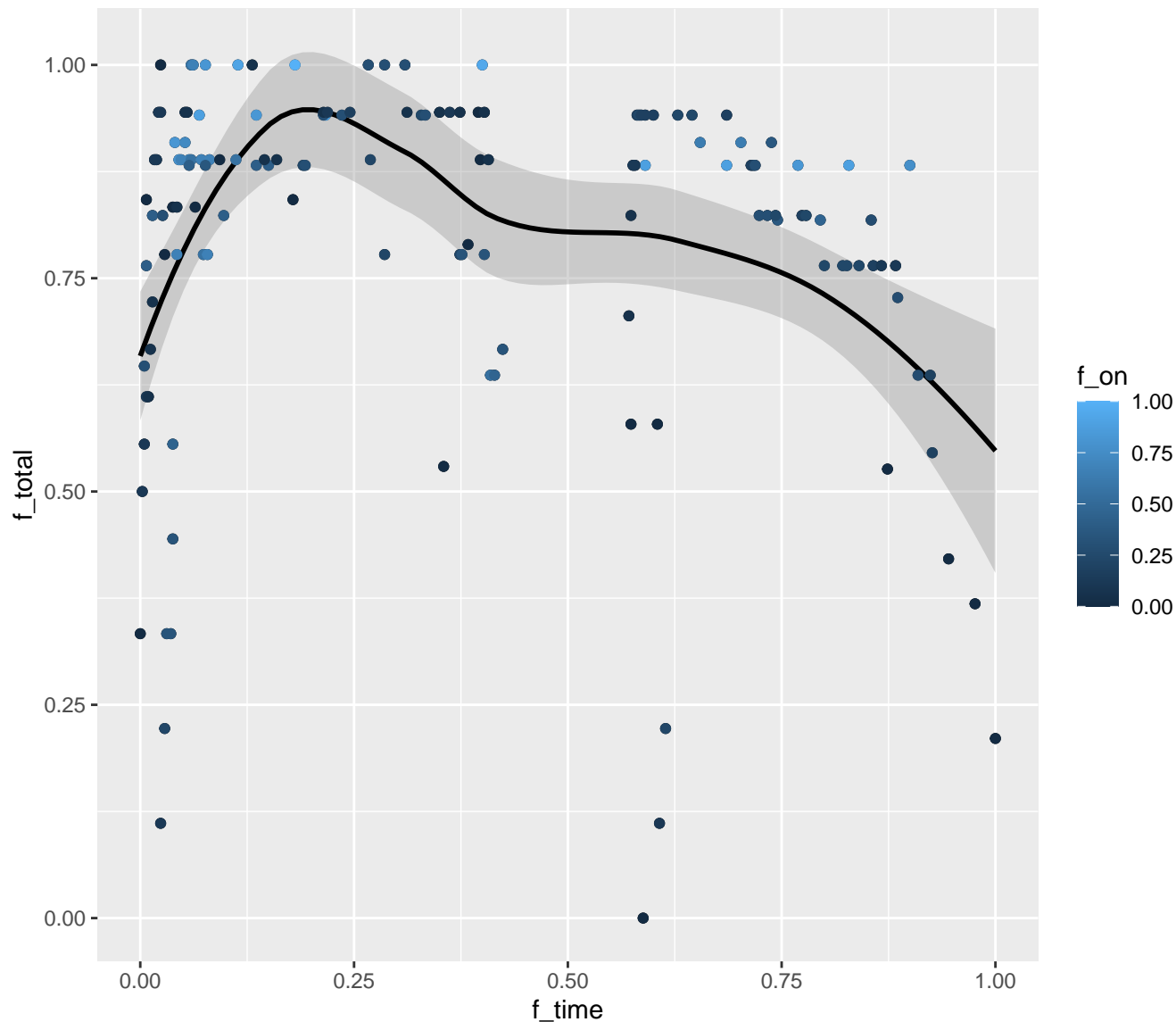
$f_{total} = n_{learners} / \max(learners\_of\_that\_day)$

$f_{time}$  = relative time of the day (0.0 = start, 1.0 = end)

Trendline is Loess smoothing of all data. Some dips can be explained by breaks

# Fraction of learners present in time under lesson time

For the fraction of learners that have the camera on



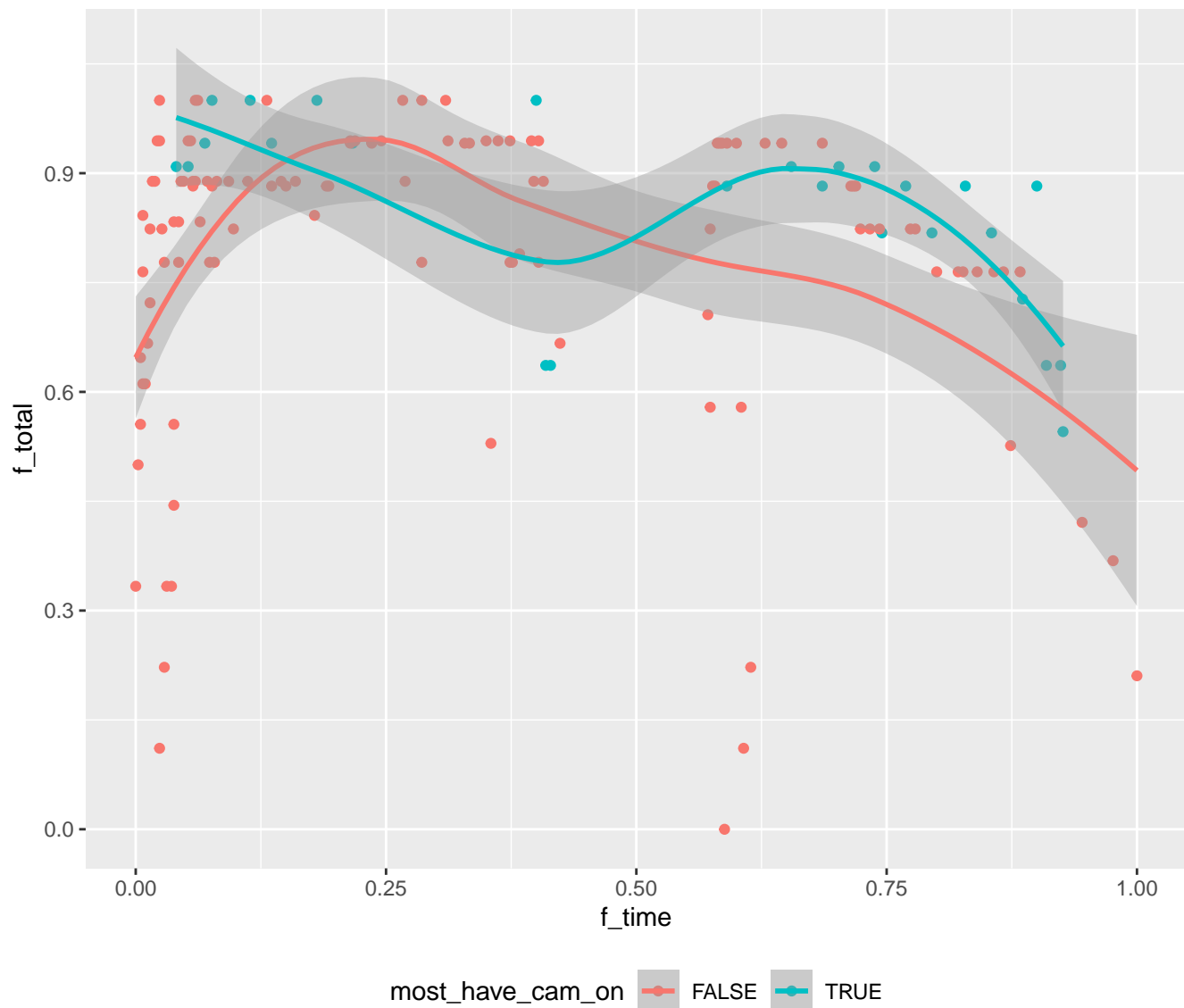
$f_{\text{total}} = n_{\text{learners}} / \max(\text{learners\_of\_that\_day})$

$f_{\text{time}} = \text{relative time of the day (0.0 = start, 1.0 = end)}$

Trendline is Loess smoothing of all data. Some dips can be explained by breaks

# Fraction of learners present in time under lesson time

For if half of the learners have camera on



$f\_total = n\_learners / \max(learners\_of\_that\_day)$   
 $f\_time = \text{relative time of the day (0.0 = start, 1.0 = end)}$   
Trendline is Loess smoothing of all data. Some dips can be explained by breaks