These models require distilled features; see DataShop Feature Distillation code and text,  
and description of features in (Baker, Corbett, Roll, & Koedinger, 2008)

Algebra I contextual models (using Ln-1 between 0.1 and 0.9 – e.g. Baker, Corbett, & Aleven, 2008 in EDM2008)

P(GUESS|TRIO) =

0.0055 \* timeSD +

0.0017 \* time5SD +

0.0002 \* howmanywrong +

-0.0003 \* timeperact +

-0.1092 \* prev3 +

0.0097 \* recent8help +

0.0239 \* recent5wrong +

0.3091 \* manywrong +

0.0009 \* optoprac +

0.3002

CV: r = 0.18

P(SLIP|TRIO) =

-0.1001 \* help +

0.0652 \* punchange +

0.0003 \* time +

-0.0041 \* timeSD +

-0.0002 \* howmanywrong +

-0.0014 \* helppct +

-0.0011 \* wrongpct +

0.0004 \* timeperact +

0.046 \* prev3 +

-0.0189 \* prev5 +

-0.0127 \* recent8help +

-0.0163 \* recent5wrong +

-0.1898 \* manywrong +

0.001 \* optoprac +

0.339

CV: r = 0.25