

# Do students improve their metacognitive skillfulness when they receive feedback?

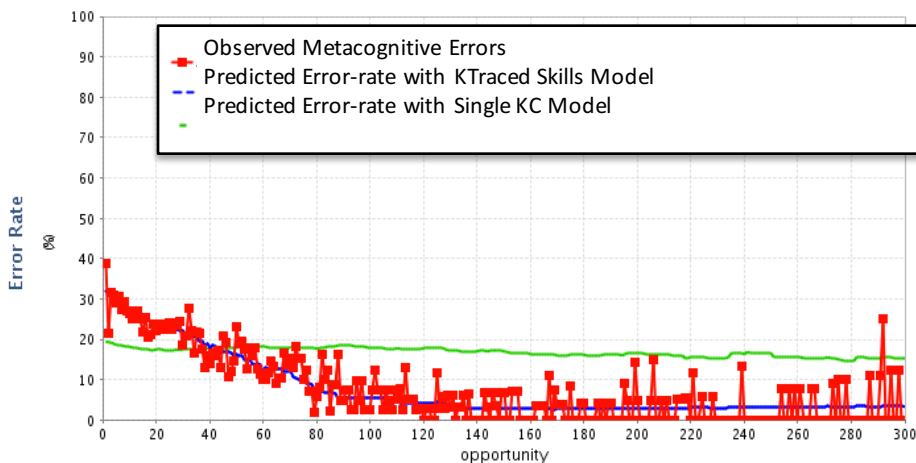
Jacqueline Gutman, New York University  
Thomas Bishop, Pearson HE

*Approach:* We repurposed DataShop's learning curve tool to model the appropriateness of students' metacognitive skills over opportunities.

Do students improve the appropriateness of their problem-solving behavior in a context specific or domain general fashion?

Are metacognitive skills best modeled at the transaction level or cognitive step level?

**KTraced skills model of metacognitive learning**



**Transaction vs. step roll-up of metacognitive models**

