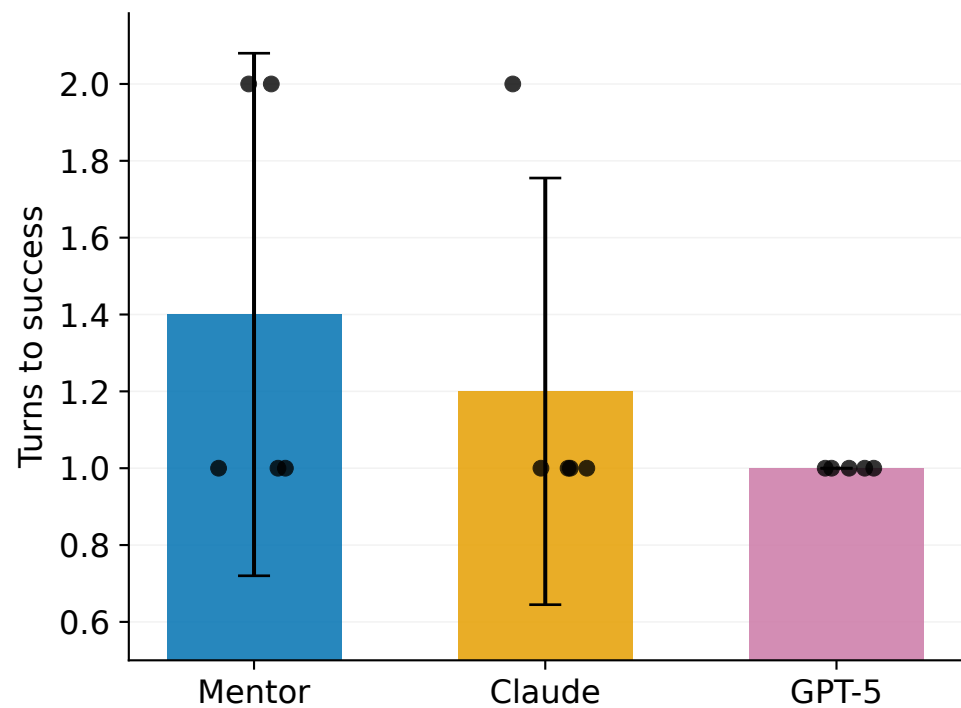
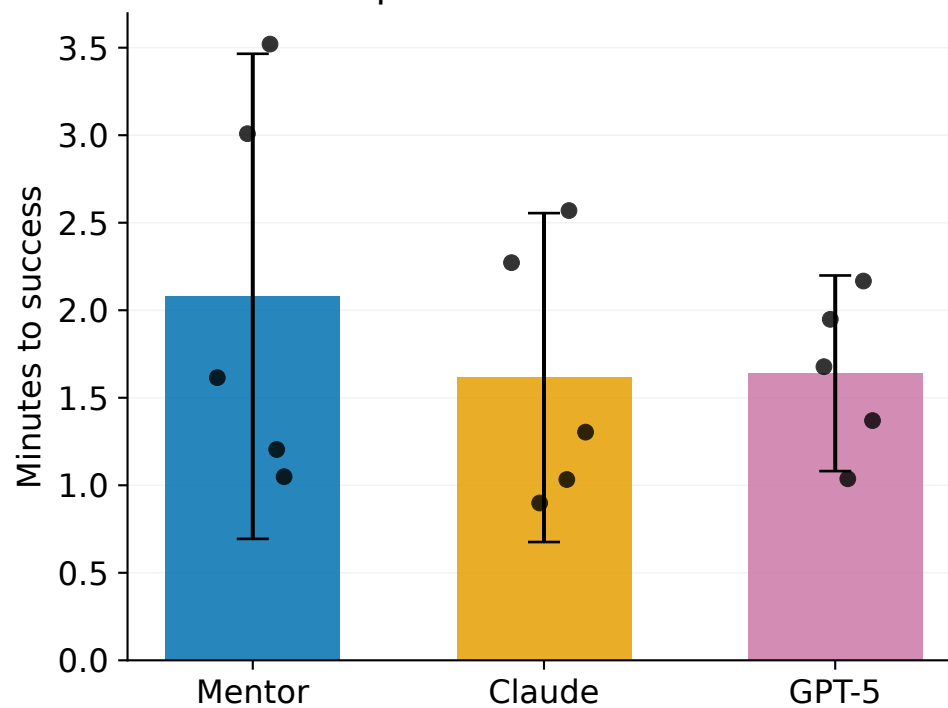


# Multi-turn conversation quality and efficiency

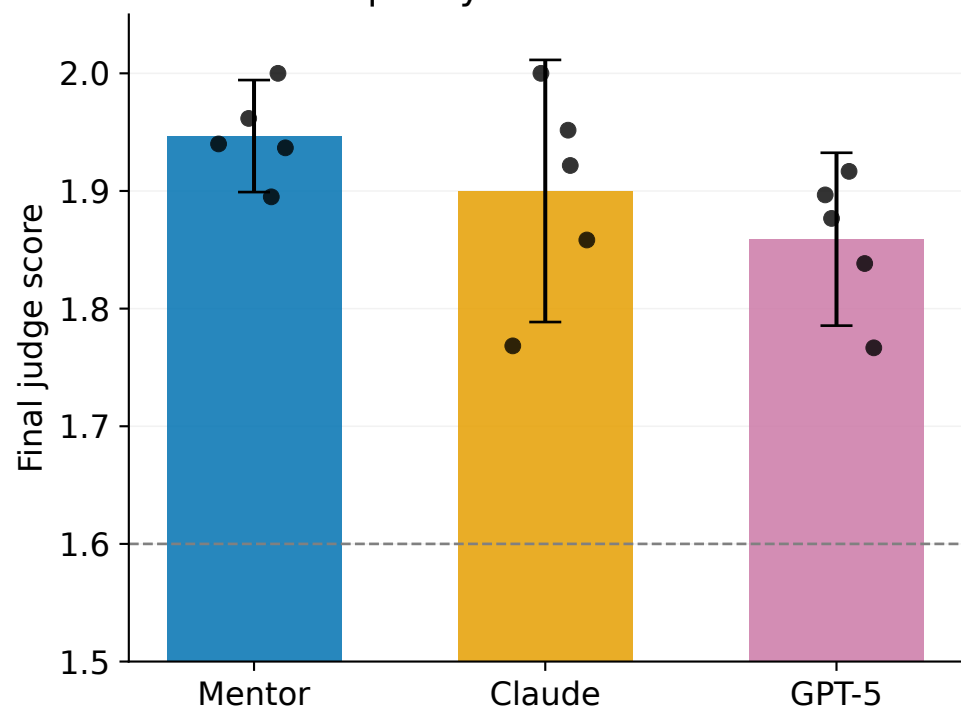
**A** Conversation turns to success



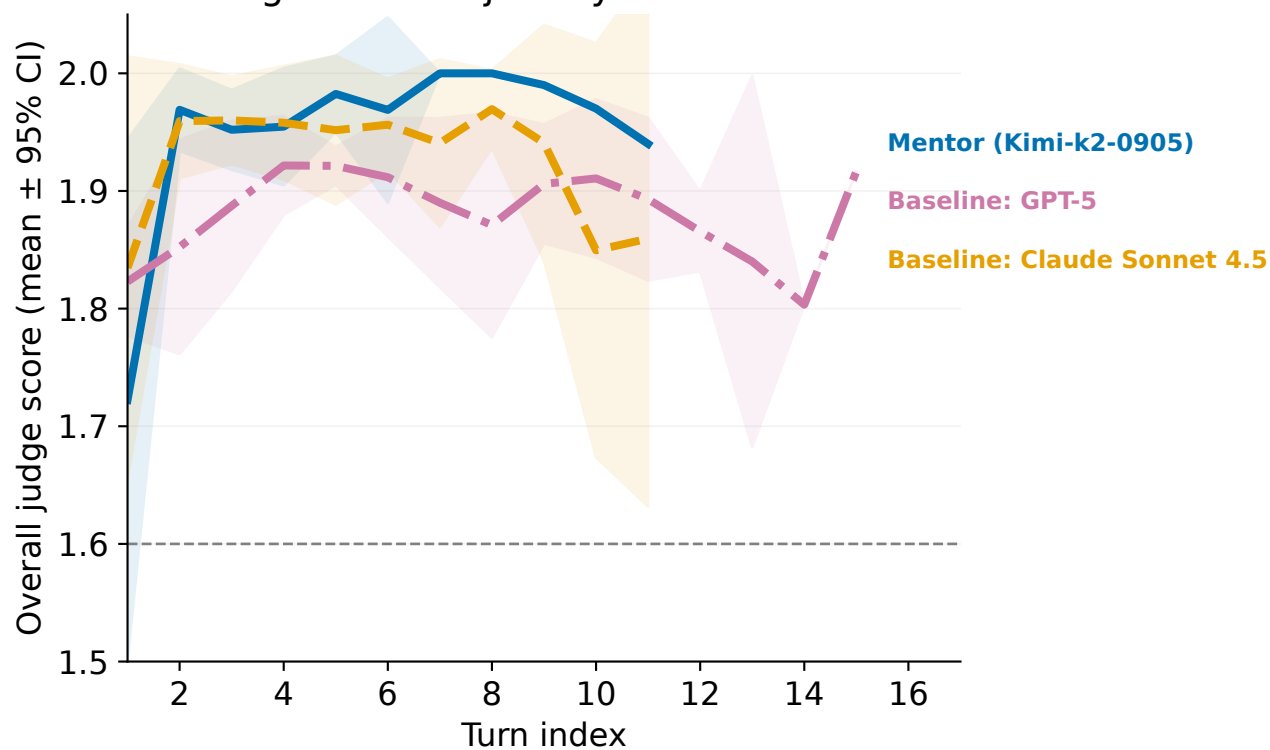
**B** Elapsed time to success



**C** Final quality after conversation



**D** Average score trajectory across scenarios



A-C: dots mark individual scenarios (n=5 per agent), bars show group means  $\pm$  95% CI; success threshold (score  $\geq 1.6$ ) denoted by dashed gray line. Panel D: mean score trajectory across scenarios