Provide the summary of \*paper1\* in a paragraph. The summary should include 1) why the authors thought this study was worth conducting, 2) what research questions they tried to answer to, 3) how they found the answers, 4) what the implications were.

Pass rates in introductory computing courses have been low, and the increasing in CS enrollments make per-student resources are spread thinner. Identifying the struggling students and designing effective intervention are needed nowadays, yet literature does not give insight into the particular antecedents of these behaviors and literature on interventions has yielded few successes. A better understanding of the characteristics of behaviors employed by successful and unsuccessful students would aid in developing effective interventions for helping those low-performing students. The research questions are to identify and categorize the behaviors of low and high-performing students. With qualitative research methods, the authors explored students’ individual contexts and identifying new variables of interest. They conducted a series of semi-structured interviews with students in an introductory CS course at a large public university and qualitatively analyzed interview transcripts with open-coding approach. Some of the observed trends may relate to general study skills and are tied to general student metacognition. There are behaviors that clearly relate to student self-regulation. These trends may be encouraging to the computing education community insofar as they may be able to leverage literature outside of computer science to improve the ways that students study.

Were the results from both papers consistent?

Some are consistent. Both papers reported differences between the low and high performing students for some of the self-reported habits. Interventions based on improving study habits might be possible. Both papers found that procrastination exhibited by LPs often resulted in them asking friends and classmates for help, rather than instructional staff. However, that the qualitative paper reported that HPs procrastinate as well, but they were just more likely to finish the assignment quickly without needing this help. So both groups of students procrastinate, but only LPs suffered for it. The quantitative paper suggested that prior experience and study habits are different in how they are associated with student success.

What do you think the point of a qualitative study is, when you still need to investigate the same work quantitatively later?

A qualitative study gains a deep and nuanced understanding of a specific event, rather a than surface description of a large sample of a population. The focus of qualitative study is on researchers to understand the essence of event, and to emphasize the integrity of facts and processes, rather than partial analysis of data. It’s suitable for exploratory study under the background of unclear status and no theoretical framework established.

These two papers investigated students' general study habits by taking very different approaches. If you have unlimited amount of time and money to investigate any human behaviors of your interest, what kind of research question(s) would you like to look into? Elaborate 1) the question(s) themselves, 2) what kind of data to collect, 2) how to collect them, and 3) how to analyze them.

I would like to find out if physic distance in a relationship affects interaction patterns and satisfaction of couples. The data I am planning to collect is quantitative data. The variables are the time and frequency of couples texting, calling, video calling and meeting each other per week, and the satisfaction of these interactions. I will recruit around 50 long-distance couples and 50 geographically close couples, and ask them to complete a data collecting survey every day at a specific time such as evening. Long-distance relationships can divide into specific groups such as meet in-person under once a week, a month, and half year. With these data, I can do descriptive statistic analysis to know if couples with different meeting frequency and physic distance have different interaction mothed, time, frequency and satisfaction. I will conduct data visualization method to show these data easily. If there’s any statistically significant between different groups of distance, I will conduct experiment to examine if there’s causal relationship between physic distance and satisfaction. Although it might violate the human ethics if I control the meeting frequency of couple .