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# Do resit exams promote lower investments of study time? Theory and data from a laboratory study

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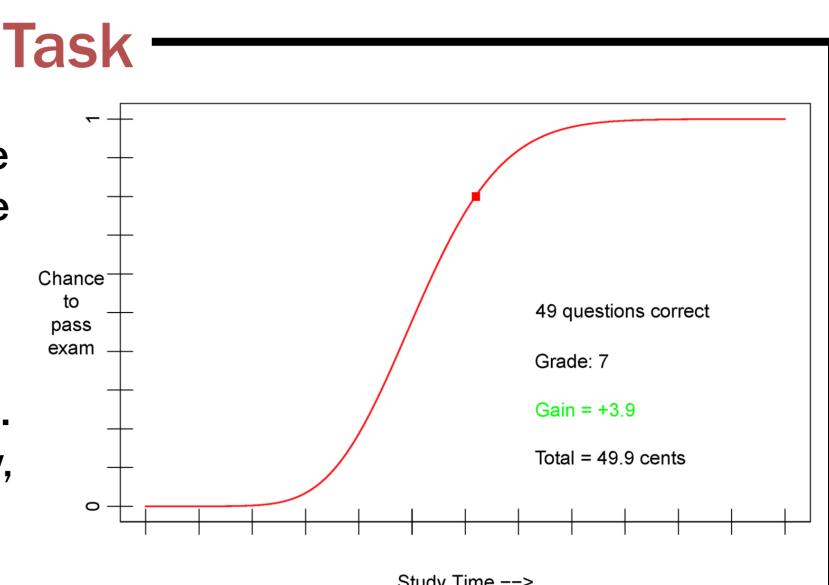
## Introduction -

Does the prospect of having a second chance to achieve a goal influence investments on a first chance?

According to our model of investing study time on multiple choice exams, resit exams, an example of second chances, should lead rational students to invest less study time on a first exam with resit opportunity as compared to a single exam.

This behavior should be due to an optimization of the trade-off between the costs of investing time and the benefits of passing the exam.

- Investment game requiring an investment of fictional study time to pass a fictional multiple-choice exam.
- Exam outcome computed by our model of study-time investment based on the invested study time.
- Investing study time costs money, passing earns money.



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## Conclusions

In accordance with the model predictions, resit exams lead to lower investments.

This second-chance effect, the lowered investment on a first exam compared to a single exam, is diminished by: 1) restricting access to the resit; 2) increasing depreciation of first exam investments (i.e. increasing forgetting of knowledge between exam opportunities).

The second-chance effect seems to be a rational optimization of the trade-off between the costs of investing time and the benefits of passing the exam.

