The Association of Motivational Profiles with Affect, Engagement, and Achievement in a Problem-Based **Bachelor's Program**

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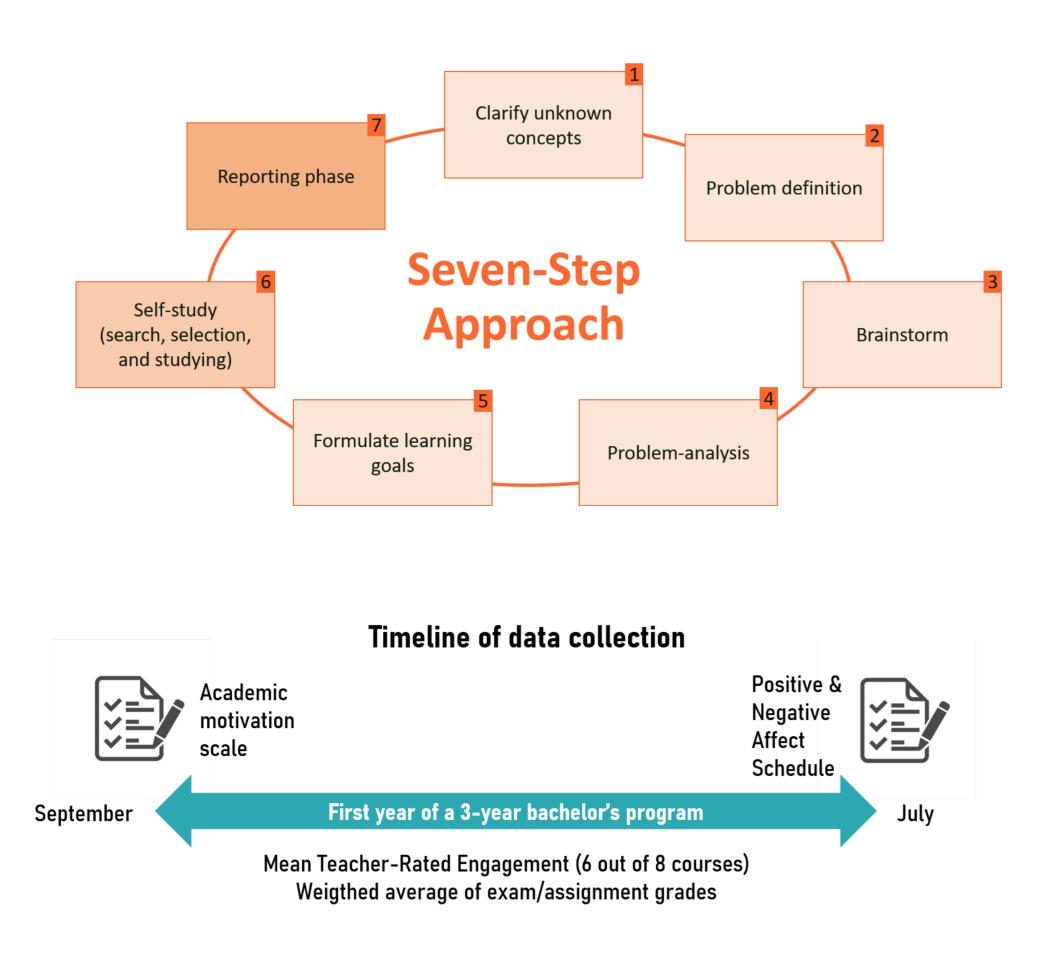
The Association of Motivational Profiles with Affect, Engagement, and Achievement in a Problem-Based Bachelor's Program

INTRODUCTION

- Problem-based learning (PBL) aims to promote students' instrinsic motivation (Norman & Schmidt, 1992), but motivational problems are often reported (e.g., Wijnia et al., 2021).
- Individual differences in motivation can affect students' perception of PBL, such as problem quality (Noordzij & Wijnia, 2020).
- Do individual differences in PBL-students' motivational profiles affect their subsequent affect, teacher-rated engagement, and academic achievement?

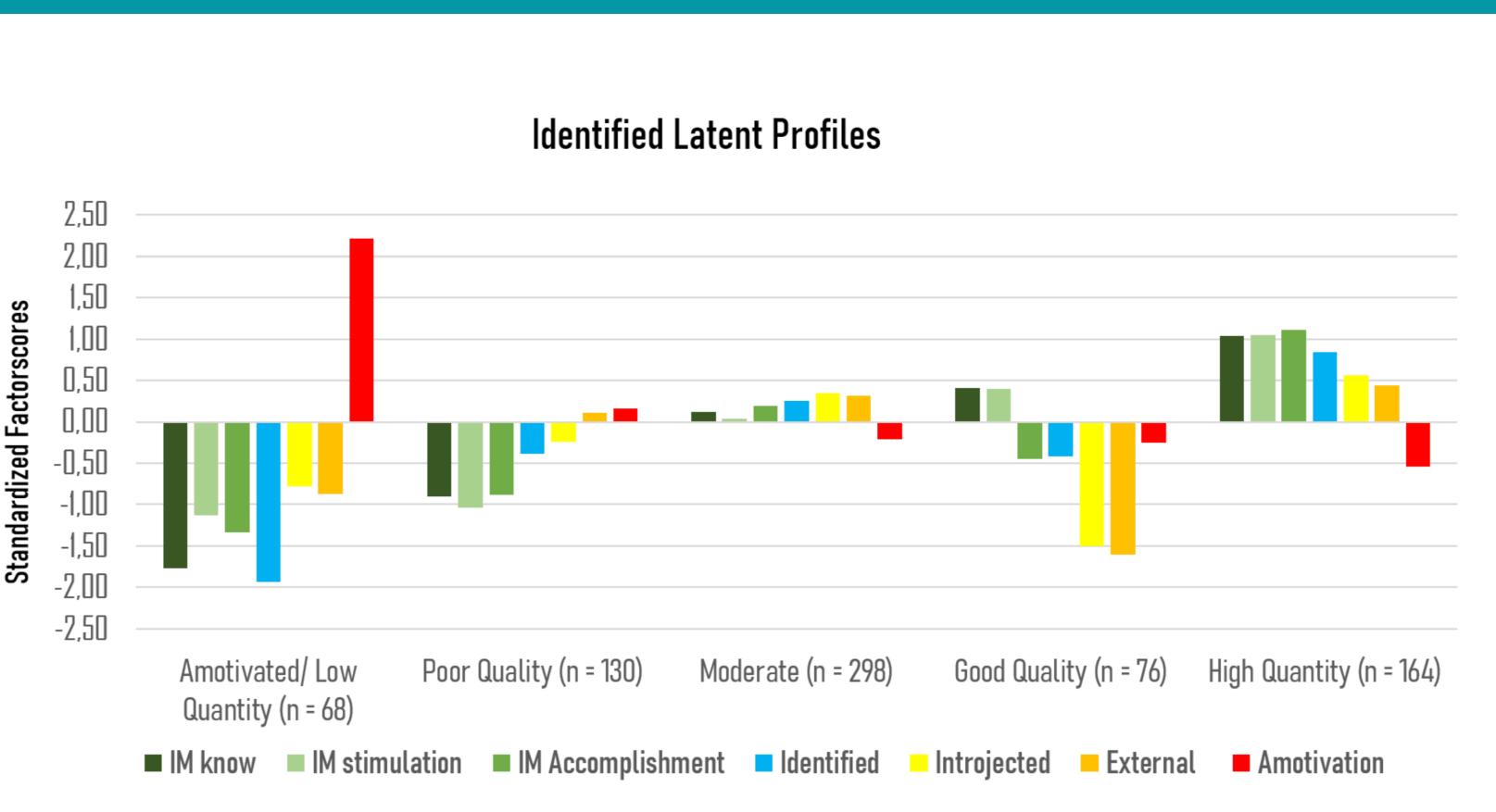
METHOD

- Part of a larger longitudinal study.
- 736 first-year PBL psychology students (74% female, M age = 19.70 years old).
- Setting: 7 out of 8 courses are problem-based with seven-step approach after receiving the problem.

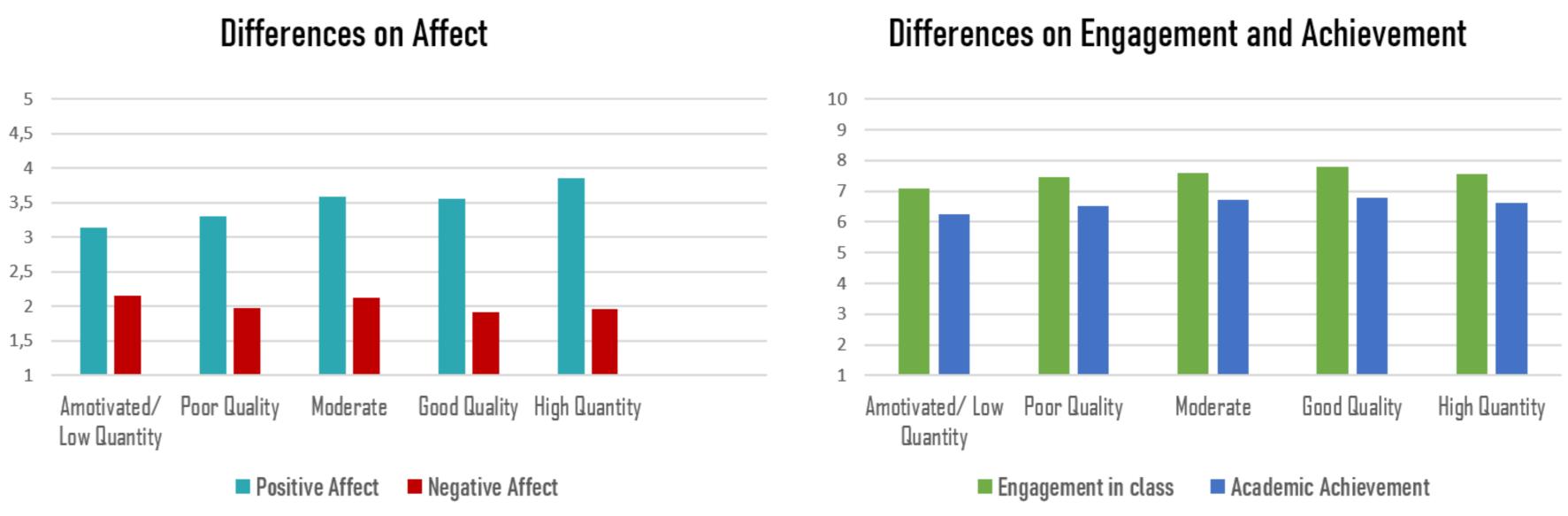


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RESULTS







Statistical differences were found between student profile groups on positive affect, teacher-rated engagement, and acacemic achievement

- Positive affect: High quantity > moderate, low quantity, and poor quality group
- Positive affect: Amotivated/ low quantity < moderate, good, and high quality
 Engagement: Amotivated/ low quantity < all other profiles
- Achievement: Amotivated/ low quantity < moderate, good quality and high quality

What we learned

- program.

Next steps

outcomes.

Noordzij, G., & Wijnia, L. (2020). The role of perceived quality of problems in the association between achievement goals and motivation in problem-based learning. The Interdisciplinary Journal of Problem-Based Education, 14(1). https:// doi.org/10.14434/ijpbl.v14i1.28593

Norman, G. R., & Schmidt, H. G. (1992). The psychological basis of problem-based learning: A review of the evidence. Academic *Medicine, 67,* 557–565. https:// doi.org/10.1097/00001888-199209000-00002

Wijnia, L., Loyens, S. M. M., & Derous, E. (2011). Investigating effects of problem-based vs. lecture-based learning environments on student motivation. Contemporary Educational Psychology, *36*(2), 101–113. https://doi.org/10.1016/j.cedpsych.2010.11.003



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CONCLUSION

• Five motivational profiles were identified.

Students with an amotivatied/ low quantity profile scored lower on positive affect, engagement, and achievement during the first acacemic year of the PBL

• Students with moderate, good quality, and high quantity profiles obtained similar results.

 Poor quality and good quality profiles were less pronounced in this study (moderate scores).

• Individual differences could affect the effectiveness of problem-based learning.

Examine stability and change in students' motivational profiles and associations with student

REFERENCES

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