## The Relationship Between Undergraduate Students' Mathematics Anxiety and Motivation to Learn Mathematics: A Mixed Method Study

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## Introduction

One of the most significant reasons students dislike mathematics is mathematics anxiety, an emotional component identified in the research (Shen, 2009).

Motivation is an essential factor that affects students' creativity, learning styles, and academic achievement (Dilek et al., 2020).

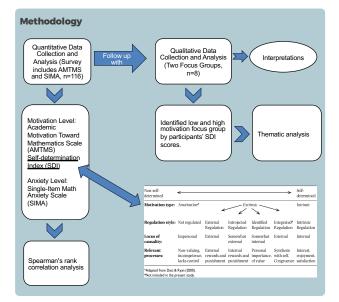
There needs to be further research on the precise relationship between mathematics anxiety and motivation, further discovering the association between intrinsic or extrinsic motivation and math anxiety. (Dowker et al., 2016).

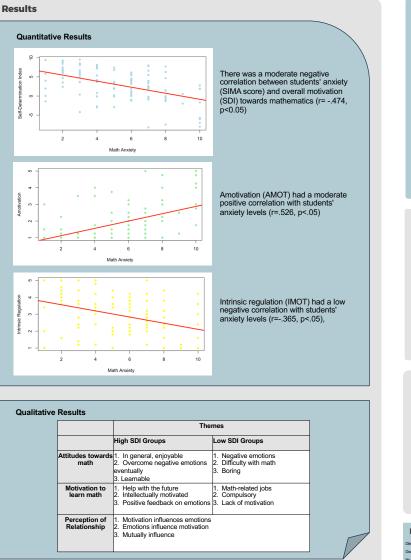
## **Research Questions**

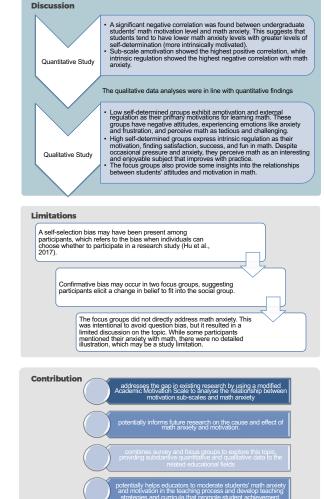
1. Is there a relationship between university students' mathematics anxiety and motivation to learn math?

1.1 What are students' attitudes and motivations towards math? How do the attitudes and motivations differ between students with low and high math motivation levels?

1.2 How do students perceive the relationships between their emotions towards math and motivation to learn math?







## Reference

Diek, C., Qakrodju, U. & Vutpu, S. (2020), Investigating the relationarity between academic motivation and creativity of university students. Journal of Education and Learning 4(6), 458-173. Doubert A, Starika A and Lico (° (2101)) Multereminical-Anderly. J Haw New Learning in Novem Freet, Psychol. 7556, doi: 10.3389/psyg.2016.00588 Ha, N., Pakau, P. A. & Zhang, J. (2017), On Self-Station Bases in Online Product Review. Management Information Systems Classifier, 19(2), 449-471. Smith, 12(203), Universitivity and Industry and Industry and Industry and Industry and Industry 41(2), 439-471.