How does culture influence student contributions to online group work?

Jenna Mittelmeier, Institute of Educational Technology, The Open University
Supervisors: Dr Bart Rienties and Prof Denise Whitelock

Introduction
In 2013, universities in the United Kingdom hosted over 425,000 international students. However, both educators and students face challenges in successful collaborative work, particularly when students come from a diverse set of backgrounds and cultures. One explanation for this could be that culture and personality influence behaviour in group work, creating mismatched expectations.

Results
Bivariate analysis indicated that five out of six Hofstede’s Cultural Dimensions correlated with the number of posts made and the summed word count submitted. Two out of five Hofstede’s Cultural Dimensions correlated with number of case study information references made. No Big Five Personality Dimensions correlated. Next, we conducted stepwise regression analysis to determine predictors for student behaviours.

We could predict student contributions to online group work using Hofstede’s Cultural Dimensions

Findings
Our analysis suggests that:
- Cultural traits in particular have a powerful influence on the types of contributions that students make to online group work.
- Students’ contributions to online group work can be predicted by Hofstede’s Cultural Dimensions

Methods
In a lab setting, 58 Master’s level business students worked in small groups on a Harvard Business School Case Study, using an online chat to communicate. We analysed:
- Number of posts made
- Summed word count submitted
- Number of case study information references
- Student module grades

Students were also given a Ten Item Personality Inventory to determine personality traits according to the Big Five Personality Dimensions (Gosling et al., 2003).

Research Questions
- How do culture and personality traits influence the amount of contributions that students make in online group work?
- To what extent can students’ culture and personality traits predict the contributions they make in online group work?

Culture
In this study, students’ nationalities were converted to Hofstede’s Cultural Dimensions (Hofstede, Hofstede & Minkov, 2010) to analyse culture.

References

Hofstede’s Cultural Dimensions
- Power Distance
- Individualism
- Masculinity
- Uncertainty Avoidance
- Pragmatism
- Indulgence

Big 5 Personality Dimensions
- Extraversion
- Agreeableness
- Emotional Stability
- Conscientiousness
- Openness to Experience