

Project Code: Hawes

## APD 1210 RESEARCH PRACTICUM COURSE PROJECT DESCRIPTIONS 2024-25

FALL/WINTER

Name and Title: Zack Hawes (Assistant Professor)

Lab Website: https://www.mathematicalthinkinglab.com/

The Role of Spatial Reasoning in Mathematics Curricula Around the Globe

NUMBER OF STUDENT PLACES AVAILABLE: 1

PRIMARY MODE OF RESEARCH PLACEMENT PARTICIPATION:

\_\_IN PERSON \_\_\_REMOTE (ONLINE) \_\_X\_\_HYBRID/ FLEXIBLE

The research for this project can be completed in person, remotely, or a combination of both. Ultimately, the decision where to work will be up to the successful candidate for this position.

OBJECTIVES AND METHODOLOGY: This research project will be in partnership with Dr. Katie Gilliganhttps://www.gilliganleelab.com/). Together, our labs

aim to better understand how spatial reasoning is instantiated in various Kindergarten-Grade 8 mathematics curricula in various countries around the world. This project is based on several bodies of research that suggests that greater curricular focus on spatial reasoning contributes to greater mathematics learning and performance. This study aims to test this daim through analyzing the degree to which spatial reasoning