



MIE498H1: Research Thesis 2024-2025

Supervisor	Greg A. Jamieson
Supervisor email	greg.jamieson@utoronto.ca
Number of Positions	1
Open to	Undergraduate Industrial Engineering Students
Term Offered	Full-year (Y)
Research Area	Human Factors
Research Topic	Evaluating explanation interfaces for supporting effective reliance on automated decision aids
Project Description	
<p>The student will lead data collection in a human-subjects experiment investigating how different explanations of automated results affect automation reliance behaviors. The experiment will expand on prior studies and compare human performance measures across three conditions: one baseline with only normative explanations, one with normative plus contrastive explanations, and one with normative plus counterfactual explanations. The objective is to assess the suitability of specific explanatory information in helping participants detect incorrect automated results effectively and efficiently. Responsibilities include recruiting and scheduling participants, collecting data, and preparing it for analysis.</p>	
Additional Information	N/A
Application Instructions	Email Prof. Jamieson (greg.jamieson@utoronto.ca) with your CV and your motivation to join the project.