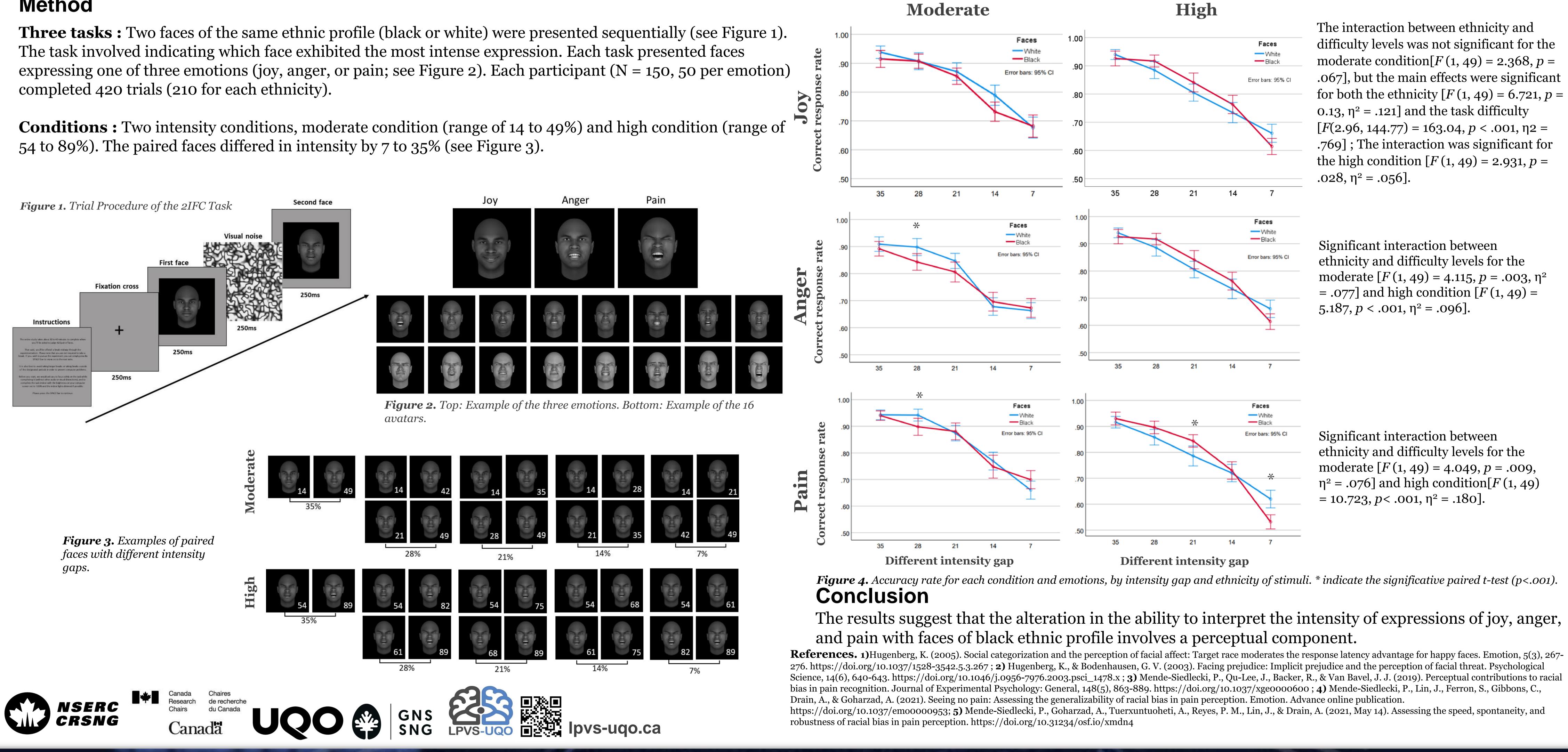
Theoretical Background

Studies demonstrate that an observer's ability to recognize a facial expression is compromised when expressed by an individual belonging to a different ethnic group¹⁻⁵. These studies suggest an overestimation of joy in white faces¹, an overestimation of anger in black faces¹⁻², and an underestimation of pain in black faces³⁻⁵. However, the use of subjective tasks in these studies does not allow for verifying if a perceptual factor partially explains these effects.

Objectives

- To verify if the ethnicity of the face has an impact on the observer's ability to discriminate variations in intensity in facial expressions of joy, anger, or pain.
- To verify if this effect is partially explained by perceptual alteration.

Method



The Impact of Face Ethnicity on the Discrimination of Facial **Expressions of Pain**

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Analysis and Results

Repeated measures ANOVA 2 x 2 x 5 for each emotion; The triple interactions were significant for all three emotions, so repeated measures ANOVA 2 x 5 for each intensity level were conducted, followed by paired ttest when the two-way interactions were significant.

The results suggest that the alteration in the ability to interpret the intensity of expressions of joy, anger,

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