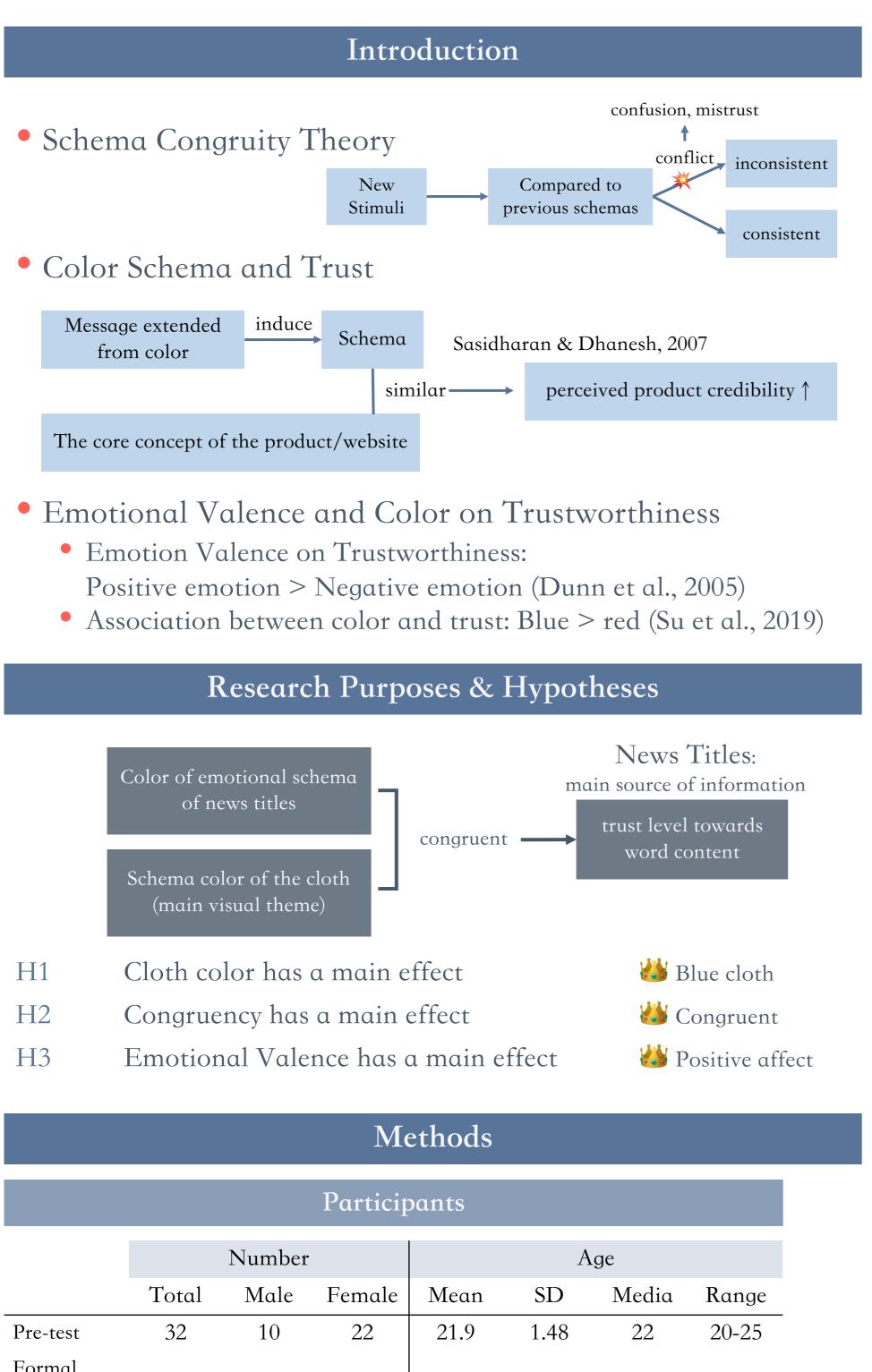
## The Influence of Emotional Schema and Color Congruency on the Trustworthiness of News

111-1 CAPSTONE COURSE

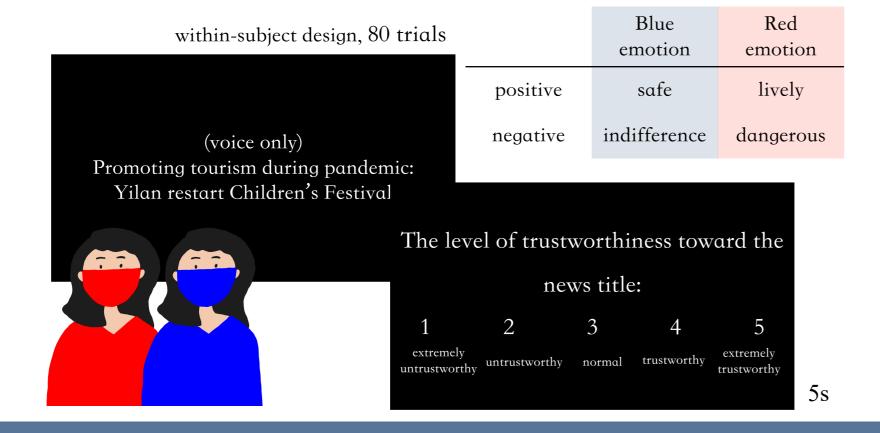
Mo-Ya Chu<sup>1</sup> Nai-Shing Yen <sup>1, 2</sup>

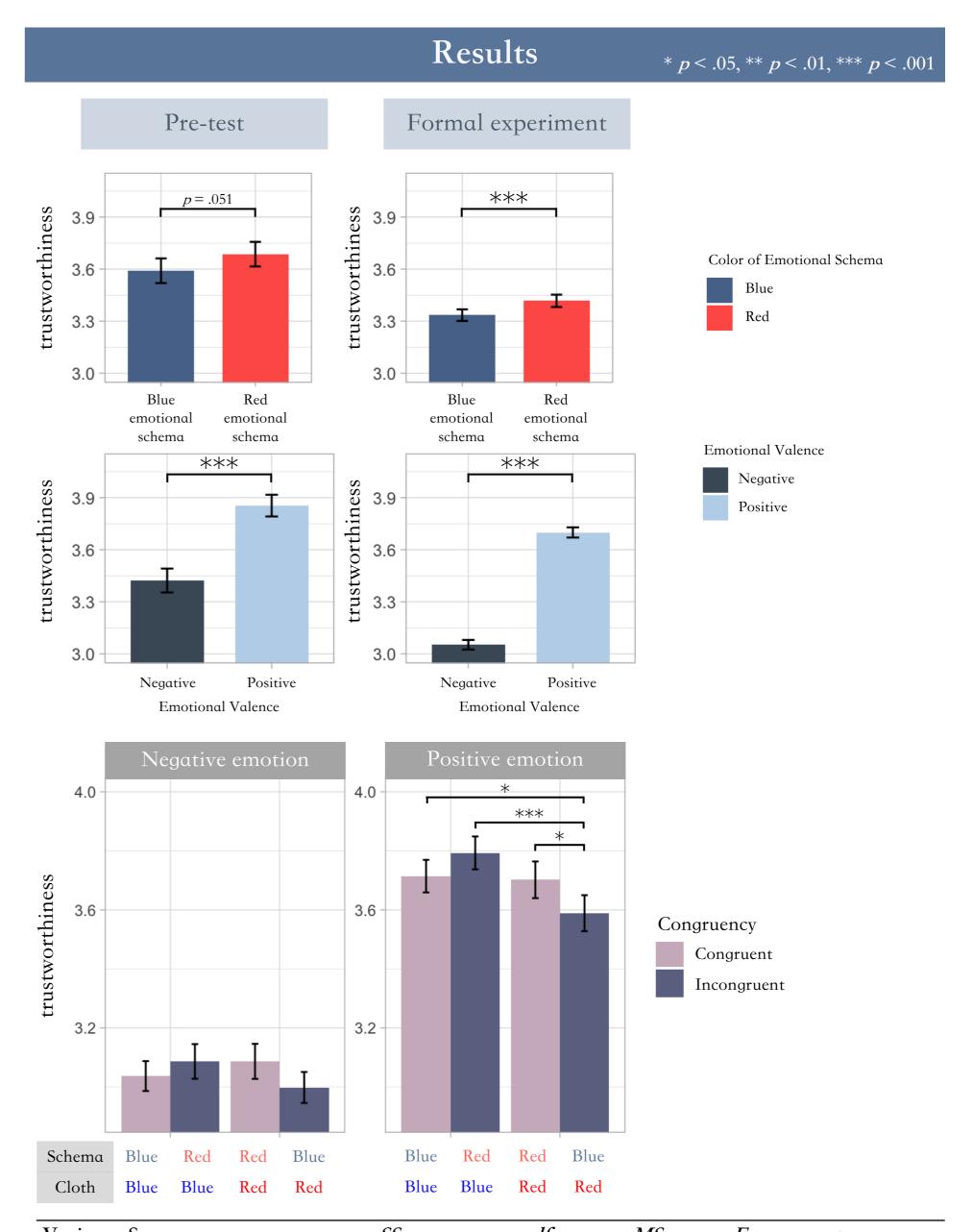
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	Number			Age							
	Total	Male	Female	Mean	SD	Media	Range				
Pre-test	32	10	22	21.9	1.48	22	20-25				
Formal experiment	70	13	57	21.23	1.4	21	20-27				
Experimental Design											
Pre-test				Formal experiment							
• Independent Variable				<ul> <li>Independent Variable</li> </ul>							

- Independent Variable
  - Color of Emotional Schema of News Titles: Red/Blue
  - Emotional Valence: positive/negative
- Dependent Variable
  - categorize emotions
  - ☐ 160 news titles • level of understanding • level of trustworthiness — 40 news titles
- Independent Variable
  - Cloth Color of the Anchor: Red/Blue
  - Color of Emotional Schema of News Titles: Red/Blue
  - Emotional Valence: positive/negative
  - Dependent Variable
    - level of trustworthiness





Variance Source	<i>SS</i> 63.39	df	MS	F	p	
Between subject		69				
Within subject	122.726	490				
Cloth Color	0.57	1	0.57	4.685	.034 *	
Residuals	8.395	69	0.122			
Congruency	0.047	1	0.047	0.9	.346	
Residuals	3.609	69	0.052			
Emotional Valence	58.66	1	58.66	146.5	<.001 ***	
Residuals	27.64	69	0.4			
Cloth Color X Congruency	0.952	1	0.952	6.66	.012 *	
Residuals	9.863	69	0.143			
Cloth Color X Emotional Valence	0.279	1	0.279	4.8	.032 *	
Residuals	4.004	69	0.058			
Congruency X Emotional Valence	0.0002	1	0.0002	0.007	.934	
Residuals	1.97	69	0.029			
Cloth Color X Congruency X Emotional Valence	0.025	1	0.025	0.259	.613	
Residuals	6.716	69	0.097			
Total	186.116	559				

## Conclusions

- Cloth color has a main effect (H1):
  - blue cloth trustworthiness > red cloth trustworthiness
- Emotional Valence has a main effect (H3): positive affect > negative affect
- The effect of congruency (H2) exists in positive emotion with red cloth.
  - trustworthiness: congruent > incongruent
  - In negative emotions: floor effect, hence schema congruency or cloth color (environmental) cues cannot influence participants' distrust towards negative news titles.
  - Blue cloth has a soothing effect (Lubos, 2008), reducing the distrust caused by incongruent conflict.

## References

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