

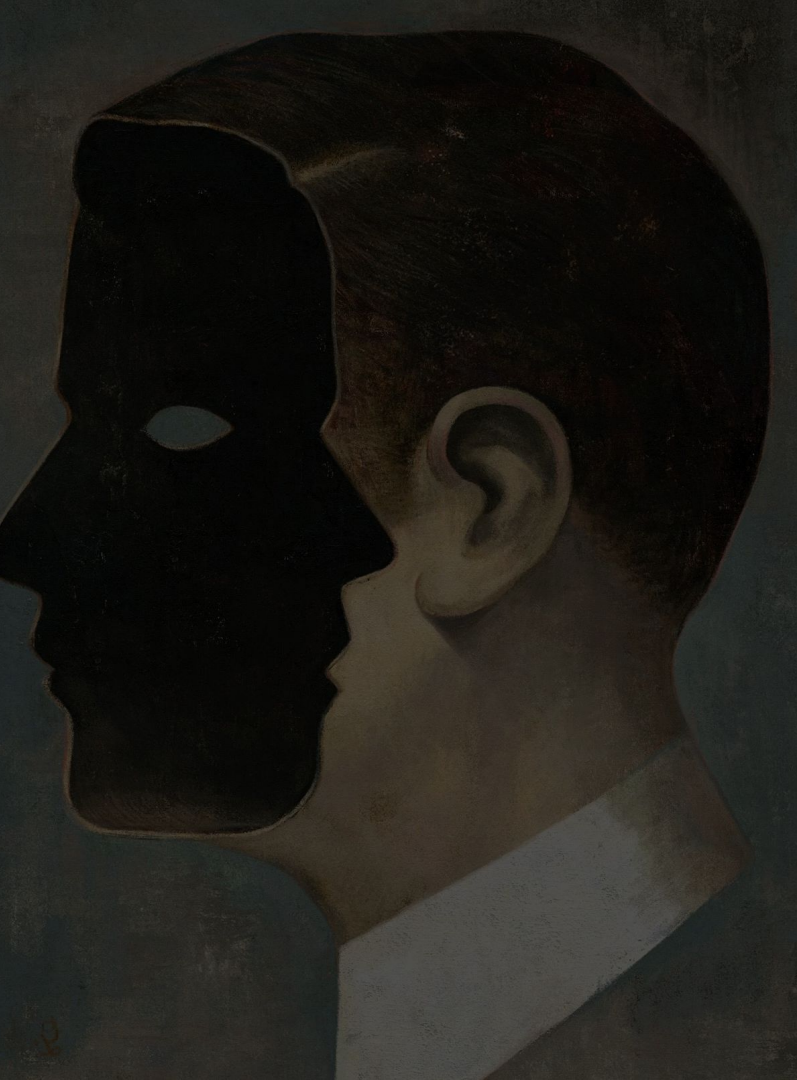


# Dimensions of Dehumanization

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Nathan Liang, Emily Gerdin, &  
Gordon Kraft Todd, Ph.D.

Mind & Development Lab  
Paul Bloom, Ph.D.



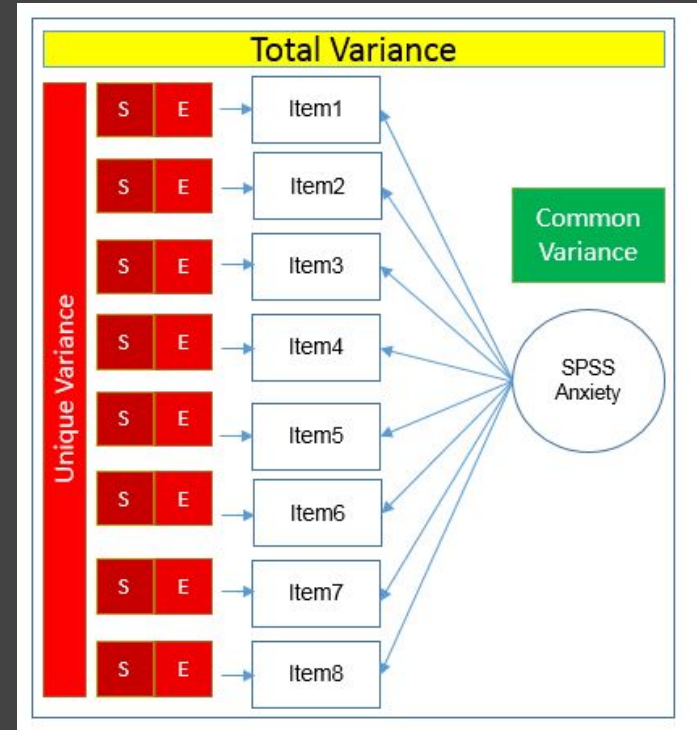
# Disparate Literature

1. Haslam  $\Rightarrow$  Human uniqueness/ nature
2. Leyens  $\Rightarrow$  Infra-humanization
3. Fiske  $\Rightarrow$  Stereotype Theory
4. Gray  $\Rightarrow$  Mind Perception

\* Scale reliabilities?

# Exploratory Factor Analysis (EFA)

- EFA reduces our data into distinct theoretical categories or **factors**
- Assumes that:  
$$\text{Total Variance} = \text{Unique} + \text{Common Variance}$$
- Attempts to reveal latent variables



# Gordon's Pilot Study

To what extent do the following behaviors, emotions, and characteristics describe **people from the continent of Asia?**

Very little 0 10 20 30 40 50 60 70 80 90 Very much 100

Nervous



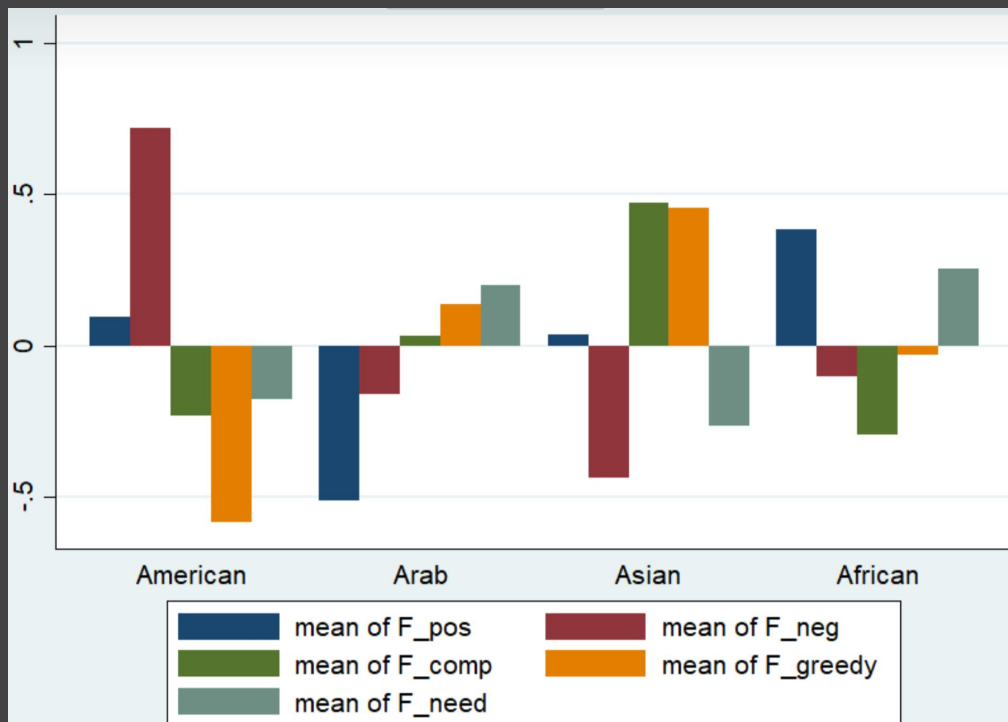
Intelligent



- Americans ●
- Arabs ●
- Canadians ●
- Chinese ●
- Europeans ●
- Muslims ●

("The Ascent of Man",  
Kteilly et al., 2015)

# Gordon's Pilot Data



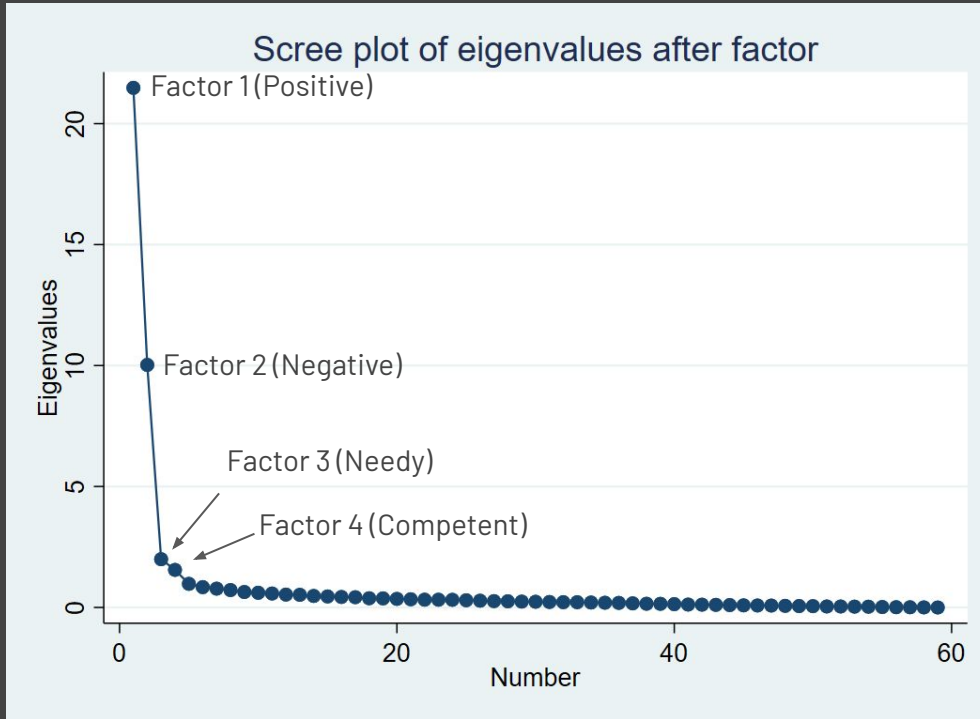
Factor (Name)	% of Var. Explained	Cum. % of Var. Explained
1(Positive)	40.84	40.84
2 (Negative)	17.57	58.41
3(Competent)	5.83	64.24
4 (Greedy)	4.06	68.30
5 (Needy)	3.45	71.76

\*Approximate values

†All factor loadings displayed  $> .4$

5-factor EFA with varimax rotation, N = 384, MTurk, 2020

# Our Replication Data



4-factor EFA with varimax rotation, N = 379, MTurk, 2020

Factor (Name)	% of Var. Explained	Cum. % of Var. Explained
1 (Positive)	53.12	53.12
2 (Negative)	26.11	79.23
3 (Needy)	4.81	84.04
4 (Competent)	3.73	87.77

\*Approximate values

†All factor loadings displayed > .4

# Acknowledgements



**Emily Gerdin**

Graduate Student

*Mind & Development Lab*



**Gordon Kraft-Todd, Ph.D.**

Postdoctoral Associate

*Morality Lab*



**Alexa Sacchi**

Lab Manager

*Mind & Development Lab*

# References

1. Fiske, S., Cuddy, A., Glick, P., & Xu, J. (2002). A model of (often mixed) stereotype content: competence and warmth respectively follow from perceived status and competition. *J Pers Soc Psychol*, 82(6), 878-902.
2. Gray, H. M., Gray, K., & Wegner, D. M. (2007). Dimensions of Mind Perception. *Science*, 315(5812), 619-619.
3. Haslam, N., Loughnan, S., Kashima, Y., & Bain, P. (2008). Attributing and denying humanness to others. *European review of social psychology*, 19(1), 55-85.
4. Kteily, N., Bruneau, E., Waytz, A., & Cotterill, S. (2015). The ascent of man: Theoretical and empirical evidence for blatant dehumanization. *Journal of personality and social psychology*, 109(5), 901.
5. Leyens, J.-P., Rodriguez-Perez, A., Rodriguez-Torres, R., Gaunt, R., Paladino, M.-P., Vaes, J., . . . phanie. (2001). Psychological essentialism and the differential attribution of uniquely human emotions to ingroups and outgroups. *European Journal of Social Psychology*, 31(4), 395-411. doi:10.1002/ejsp.50