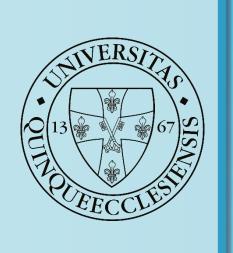


# BEAUTY STEREOTYPES, SOCIAL NORM ENFORCEMENT AND MACHIAVELLIANISM



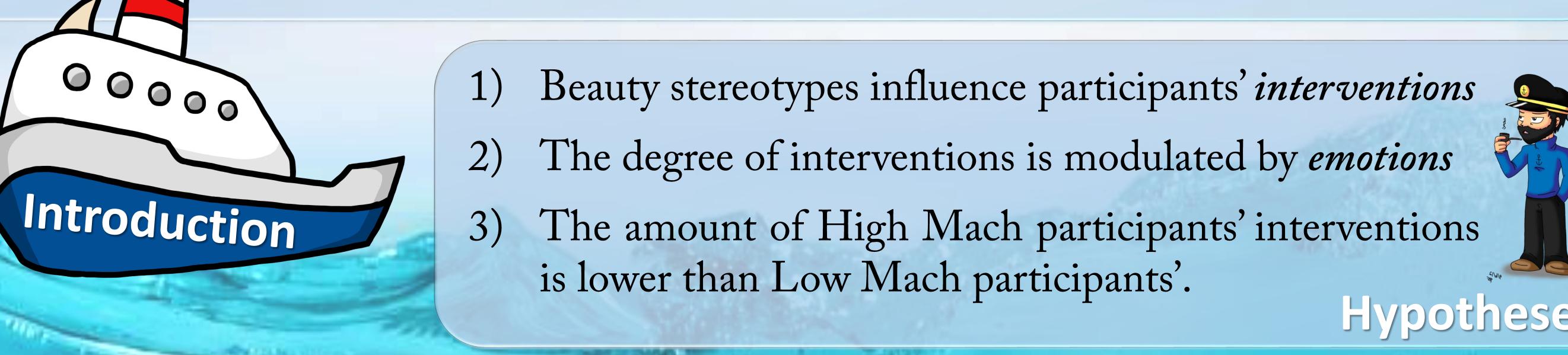
The Third-Party Punishment and Reward Game (TPRG)

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- Humans are willing to inflict punishment on those who violate the norms of cooperation and reward those who fulfil norms above expectations at personal costs (strong reciprocity). <sup>1</sup>
- In experimental games attractive trustees are viewed as more trustworthy; should they fail to reciprocate however, participants inflict larger punishments on them than on less attractive cheaters ("beauty penalty").<sup>2</sup>
  - In bargaining situations Machiavellian people use punishment only as a means to maximize their own profit ("strategic punishment"). <sup>3</sup>
  - Machiavellian thinking is often characterized by a "cold" attitude. 4





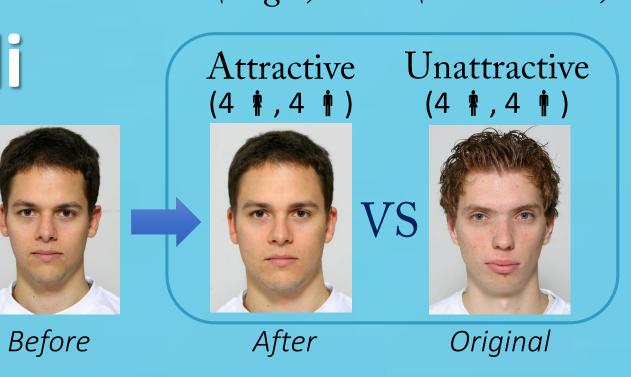
74  $\dagger$  (mean age = 20.80), 72  $\dagger$  (mean age = 21.54)

### Questionnaire

- We used the Hungarian version of the *Mach-IV* questionnaire. <sup>5</sup>
- We applied a common practice by splitting the group at 100 points.
- Emotions were measured on a one dimensional scale from -3 (anger) to +3 (contentment).

### Stimuli

- All manipulations were made by *Psychomorph* software. <sup>6</sup>
- The attractive (4 males, 4 females) and unattractive (4 males, 4 females) faces differed in *attractiveness* and *trustworthiness* (p < 0.001)



105.4

SD

10.69

12.61

## The TPRG (Third-Party Punishment and Reward Game)

Low Mach (LM)

High Mach (HM)



Two types of scenarios:

4 stereotype consistent: attractive cooperator vs. unattractive free-rider 4 stereotype inconsistent: unattractive cooperator vs. attractive free-rider

#### References

<sup>1</sup> Gintis, H., Bowles, S., Boyd, R. & Fehr, E. (2003). Explaining altruistic behavior in humans. Evolution and Human Behavior, 24, 153-172.

<sup>2</sup> Wilson, R. K., Eckel, C. C. (2006). Judging a Book by its Cover: Beauty and Expectations in the Trust Game. Political Research Quarterly, 59 (2), 189-202.

<sup>3</sup> Paál, T. (2011). Machiavelliánus döntéshozó stratégiák a szociális kapcsolatokban. Unpublished PhD dissertation, University of Pécs, Hungary

<sup>4</sup> Szijjarto, L., Bereczkei, T. (2014). The Machiavellianis" "Cool Syndrome": They Experience Intensive Feelings but Have Difficulties in Expressing Their Emotions. Current Psychology, 1-13.

<sup>5</sup> Christie, R. (1970). Scale construction. In Christie, R., & Geis, F. L. (Eds.) Studies in Machiavellianism (pp. 10-34). New York: Academic Press.

<sup>6</sup> Tiddeman, B. P., Stirrat, M. R., & Perrett, D. I. (2005). Towards realism in facial image transformation: Results of a wavelet mrf method. Computer Graphics Forum, 24 (3), 449-456.

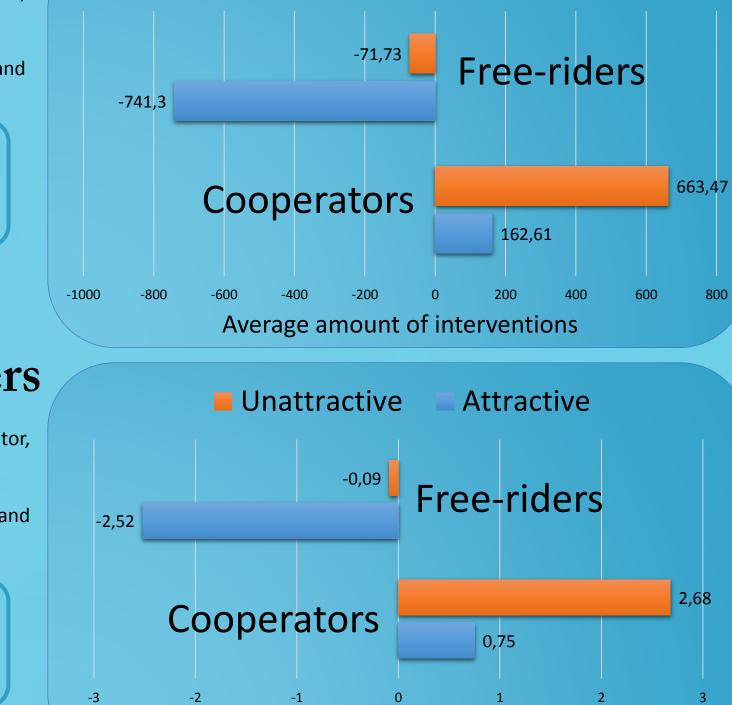
<sup>7</sup> de Kwaadsteniet, E. W., Rijkhoff, S. A. M., & van Dijk, E. (2013). Equality as a benchmark for third-party punishment and reward: The moderating role of uncertainty in social dilemmas. Organizational Behavior and Human Decision Processes, 120, 251–259.

### Results

### 1) The Effect of Attractiveness on Interventions

2 (Attractiveness: attractive, unattractive) × 2 (Strategy: cooperator, defector) repeated measures ANOVA

A significant interaction effect was found between Attractiveness and Strategy: F(1,145) = 10.92; p < .002; partial  $\eta^2 = .07$ Stereotype *inconsistent* scenarios led to higher punishments and rewards.



Average emotional response to players

Unattractive

Attractive

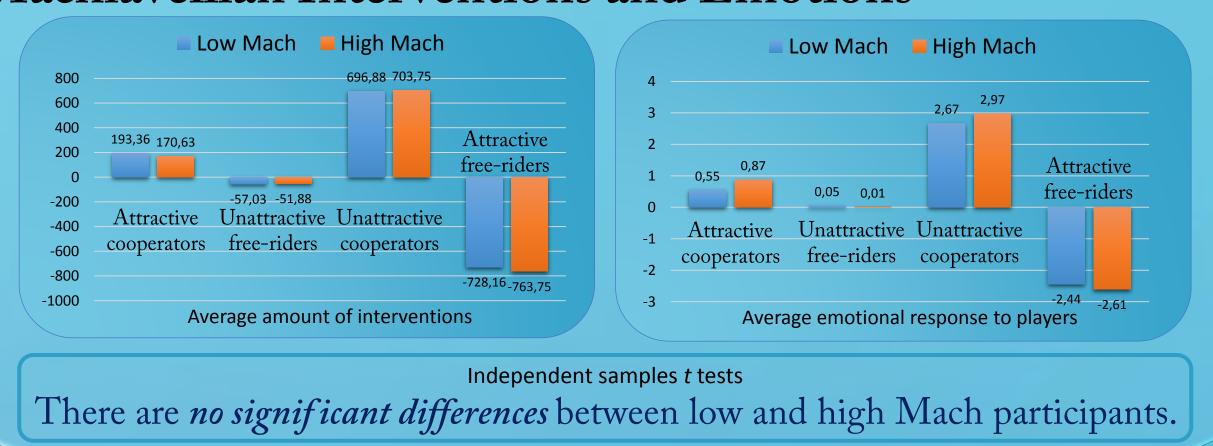
2) Emotions Evoked by Players

2 (Attractiveness: attractive, unattractive) × 2 (Strategy: cooperator, defector) repeated measures ANOVA

A significant interaction effect was found between Attractiveness and Strategy: F(1,145) = 9.43; p < .004; partial  $\eta^2 = .061$ 

Stereotype *inconsistent* scenarios evoked more intense emotions.

3) Machiavellian Interventions and Emotions



#### Discussion

- 1. In this study we introduced a *new experimental game (TPRG)*. With this software we were able to investigate both sides of the strong reciprocity (altruistic punishment and altruistic reward).<sup>1</sup>
- 2. Due to *higher expectations towards attractive people*, stereotype-inconsistent situations led subjects to allocate higher punishments and rewards than stereotype-consistent situations.<sup>2</sup>
  - 3. Experienced *emotions seem to play a mediating role* in the degree of interventions.<sup>7</sup>
  - 4. *High Mach participants* were not able to "detach" themselves from the emotional heat of the game. They allocated high punishments and rewards and *experienced intense emotions*.<sup>4</sup>