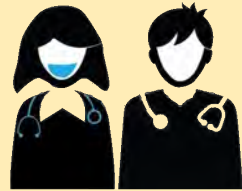


# Neural Network Analysis of Medical Student Personality, Gender, and Perspective Taking (PT)



## Methods

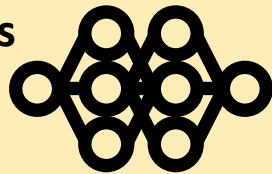
205 Med Students  
(99 F & 106 M)



5 Factor Personality  
& Interpersonal  
Reactivity Index



Neural Network Analysis  
(NNA) vs Logistic  
Regression (LR)



## Results

### PT Predictors

Conscientiousness (.45)	Agreeableness (.40)
Agreeableness (.37)	Extraversion (.26)
Neuroticism (.08)	Openness (.22)
Extraversion (.06)	Neuroticism (.08)
Openness (.04)	Conscientiousness (.04)
Female	Male

LR significant predictors in red font

NNA importance coefficients in  
parentheses ()

## Conclusions

Conscientiousness: Top personality predictor of PT for females, bottom for males.

Extraversion & Openness: Better predictor for males than females.

Agreeableness: Only predictor for NNA and LR and for both gender.

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Reference: Treat R, Prunuske A, Fritz JD, Kaljo K, Hanke C, Neural Network Analysis of Medical Student Personality, Gender, and Perspective Taking, University of Southern California Innovations in Medical Education Conference, February 17-18, 2022.