

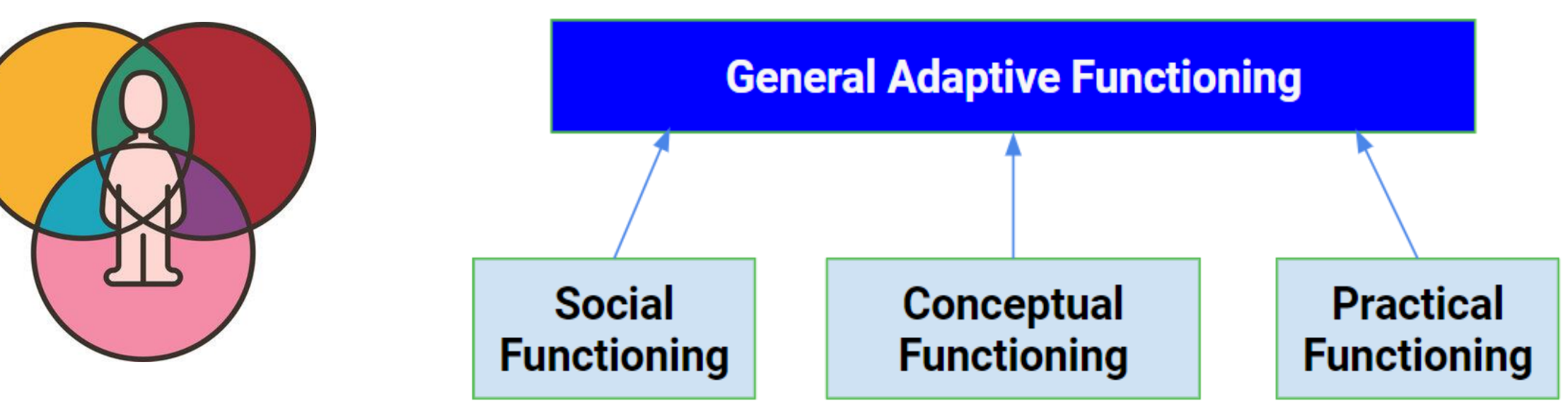
Characterizing sociodemographic biases in adaptive functioning data in a cohort of neurodiverse children.

Zuhair Qureshi¹, Harshit Bokadia², Azadeh Kushki^{2,3}

¹ McMaster University Integrated Biomedical Engineering and Health Sciences
² Autism Research Centre, Bloorview Research Institute
³ University of Toronto, Institute of Biomedical Engineering

Background

Adaptive functioning: the ability to independently perform skills of everyday life.

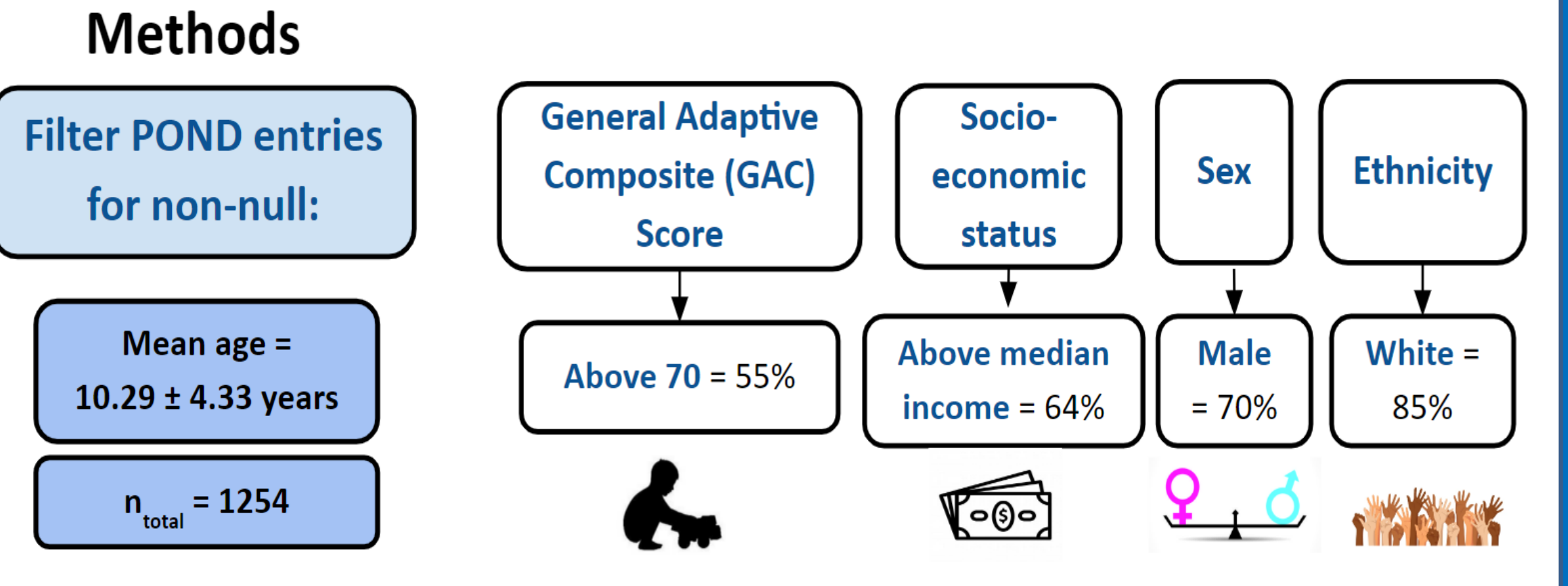


Sociodemographic factors often bias clinical results.

Objective

To characterize **sociodemographic biases** in **adaptive functioning scores** in the **Province of Ontario Neurodevelopmental (POND) Network** dataset.

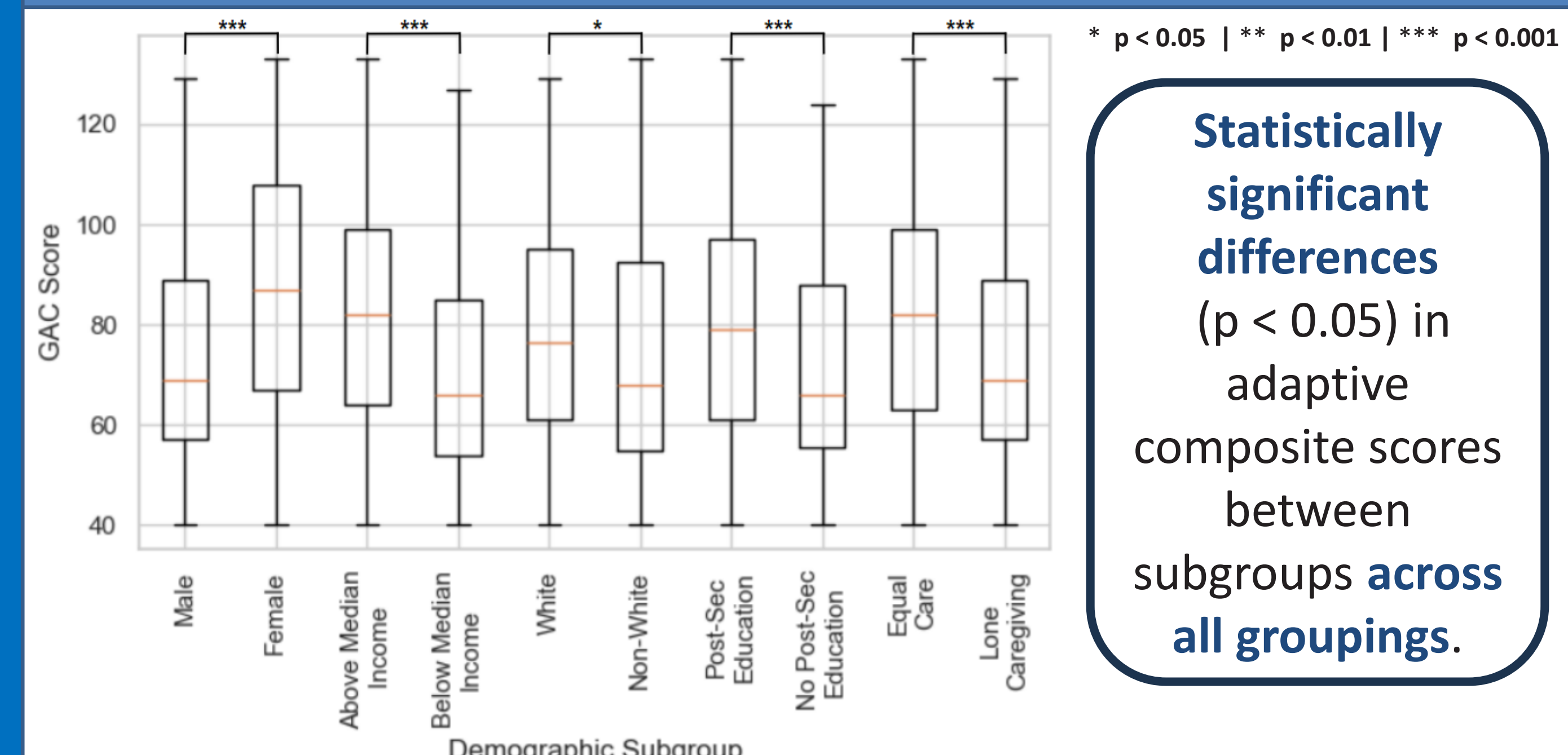
Methods & Analysis



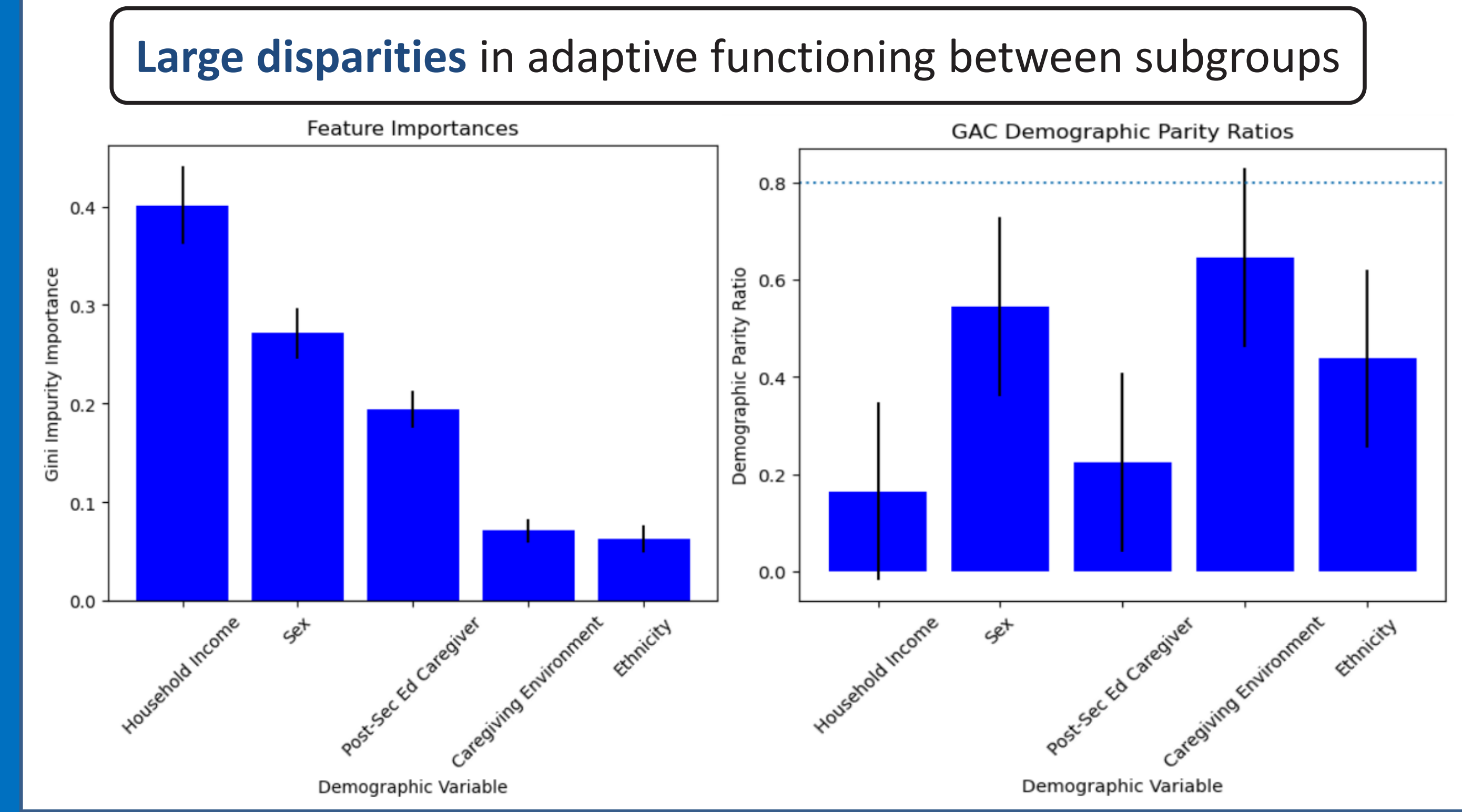
Adaptive functioning scores are biased by sociodemographic factors including socioeconomic status, sex, and ethnicity.



Results

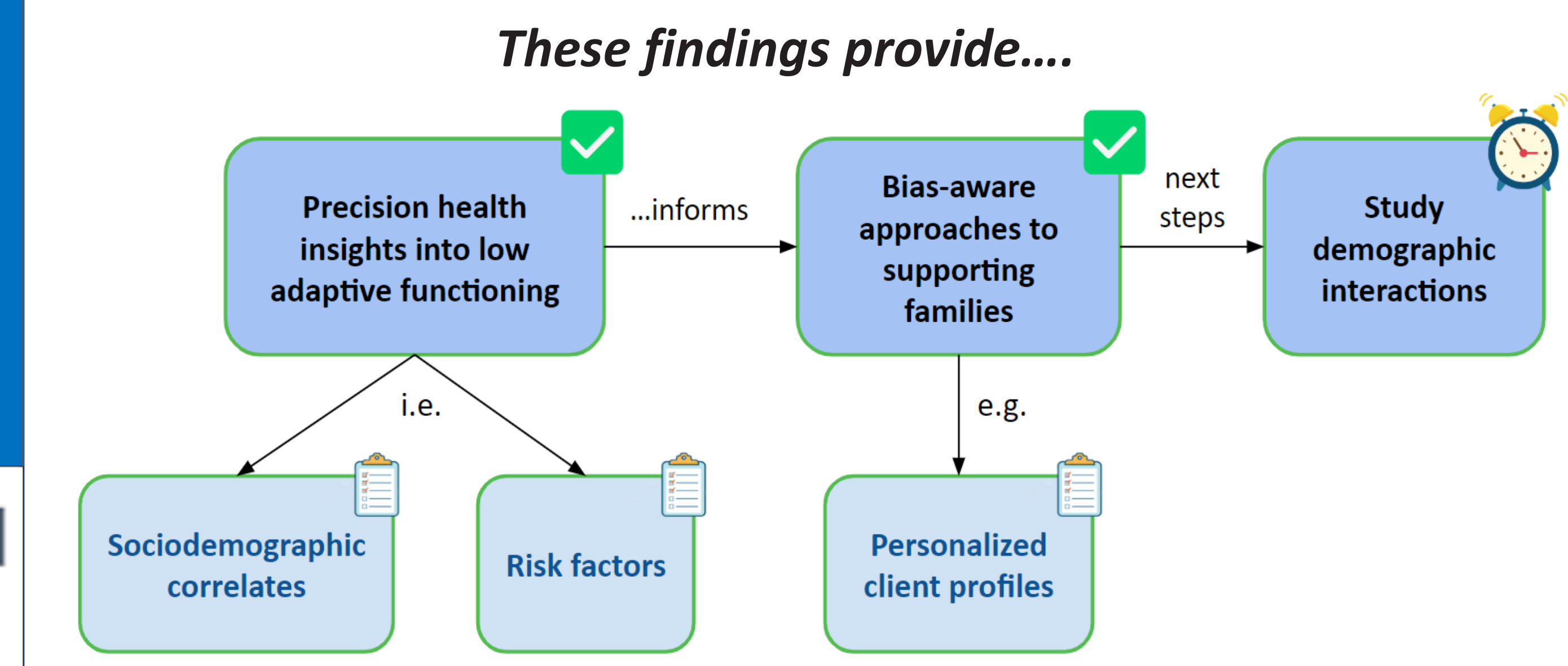


Statistically significant differences (p < 0.05) in adaptive composite scores between subgroups across all groupings.



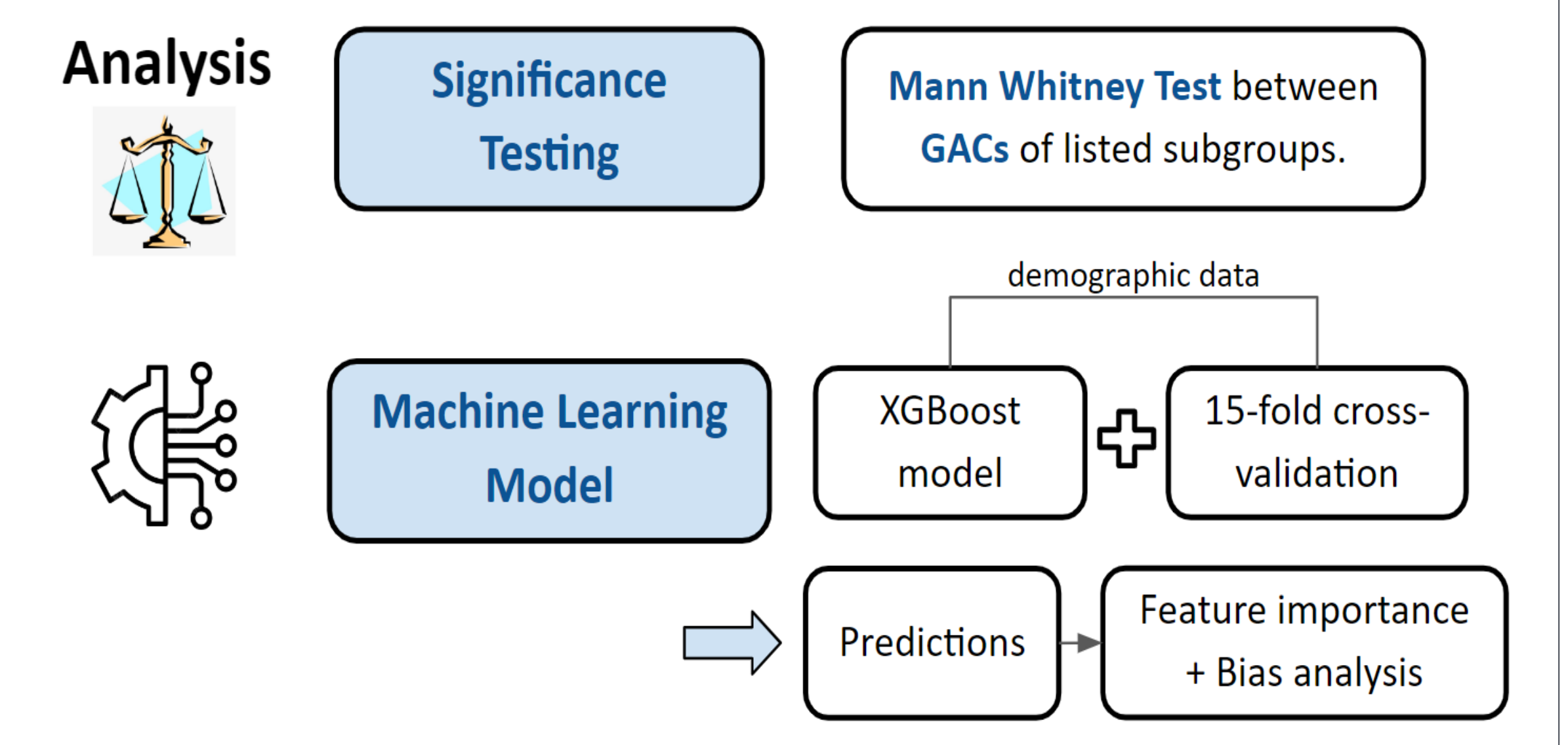
Conclusion & Relevance to Holland Bloorview

Significant biases revealed in adaptive functioning scores between subgroups based on socioeconomic status, sex, and ethnicity.



Acknowledgments

I would like to extend my gratitude to my mentor, Harshit Bokadia, and my supervisor, Dr. Azadeh Kushki, as well as the Ward Family and Bloorview Research Institute for making this project conceivable.



Holland Bloorview
Kids Rehabilitation Hospital

McMaster University | Integrated Biomedical Engineering & Health Sciences Program

POND NETWORK
Province of Ontario Neurodevelopmental Disorders