Develop statistical methods for empirical researchers to investigate for whom and under what contexts an intervention is effective and why.

Project Deliverables
- By end of the funding period, I will
  - develop an R package; disseminate the methodological development through submission to a top-tier statistics journal;
  - present the study at an educational research conference.
- Within 1-2 years after the funding period has ended, this funding will allow me to
  - apply for external grants to further advance this line of research;
  - distribute the new methodology and software through teaching a workshop at national conferences and through teaching a quantitative research methods course at the University of Pittsburgh.
- I will run comprehensive simulations to evaluate the performance of the proposed methods.

Potential Impact
- With the aid of an easy-to-implement R package, the new methods will allow researchers to generate a new set of thorough, precise, and valid empirical evidence regarding the generalizability of intervention theories across individuals and contexts.
- Such evidence will enrich theoretical understanding and inform policies and programs with direct societal impacts.

Acknowledgements
- I acknowledge support from the Pitt Momentum Fund.