



## Transfer Quantitative Skills from Education Research to Health Research: A Story from an ESRM Graduate

Methods are not exclusive to one specific research area. Instead, the quantitative skills that PhD in Educational Statistics and Research Methods (ESRM) graduates harbor can be assets in various research fields.

Dr. Wang will share his experiences in applying quantitative skills to both education and health research. First, he will present his doctoral dissertation study, in which he examined the causal impact of the Foundation of College mathematics (FCM) course on students' achievement using regression discontinuity (RD) and propensity score matching (PSM).

Then, Dr. Wang will discuss two health research projects he worked on at Mathematica. In the first project, he used parametric and non-parametric methods to impute a list of hospital quality measures. In the second project, he applied hierarchical generalized linear models to explore disparity between various racial and ethnic groups within and across hospitals.

**September 22, 2021**

**1:25–2:25 pm (EST)**

**Optional discussion to follow  
Online through Zoom**



### About the Speaker

**Rui Wang** is currently a senior data scientist at Mathematica. He received his PhD in Educational Statistics in Research Methods from the School of Education in UD's College of Education and Human Development in 2020.

His research focuses on using quasi-experimental research designs to investigate the causal inferences of various health and education programs. He is also interested in the use of machine learning techniques (e.g., neural network) on propensity score calculation.

He has expertise in health and education policy and educational program evaluation, as well as health quality measures.

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