**Course Title**

Introduction to R for Educational Research

**Badge Title**

Intro to R

**Course Description**

In this course, participants will have hands-on experience about how to use R (<https://www.r-project.org>) for educational research. The first section of the workshop will focus on the R basic setup, R package installation, data manipulation and data types. The second section of the workshop will demonstrate how to conduct basic statistical analysis, perform basic programming in R, and provide a brief introduction to advanced topics such as producing reports and maps in R. The goal of this course is to make the R learning curve less steep, help participants get familiar with the R environment, and enable learners to conduct basic data manipulation and analysis in R in their own future research.

**Course Requirements**

This is an in-person course that requires participants to bring their own laptop. Please let us know if you are unable to secure a laptop and we may be able to find an alternate solution.

**Date & Time**

Thursday June 16th from 9:00 AM to 3:00 PM

**Instructor Bios**

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|  | **Dr. Michael Peabody** is the Senior Psychometrician at the National Association of Boards of Pharmacy and holds a PhD in Educational Assessment, Evaluation, and Research from the University of Kentucky. He is an active member of NCME and AERA’s Division D (Measurement and Research Methodology) and Division I (Education in the Professions). Dr. Peabody is also an adjunct instructor for the Department of Educational Policy Studies & Evaluation at the University of Kentucky where he teaches courses on statistics and advanced psychometrics. Currently, he serves on the editorial boards for Education in the Health Professions and the Journal of Applied Testing Technology. His research interests include differential item functioning, equating, standard setting, and practice analyses as well as investigating the use of machine learning models in psychometrics. |
|  | **Dr. Ting Wang (she/her)** is the Senior Psychometrician at American Board of Family Medicine. She holds PhD in Quantitative Psychology and Master’s in Statistics. She is interested in developing innovative methods and open source computational tools to provide new perspectives. Her research program blends psychometrics and Bayesian statistical modeling. The R package she developed is available in CRAN. You can find her publication and conference talk here: http://wang-ting.com. |
|  | **Dr. Kelly Bradley** Dr. Kelly D. Bradley is a Professor and Chair of Educational Policy Studies and Evaluation and Program Chair for Research Methods in Education in the College of Education at the University of Kentucky. Her research is anchored in quantitative methods and measurement, with a focus on survey research and the Rasch model. She has served as chair of American Educational Research Association (AERA) Survey Research SIG, program chair the AERA Rasch SIG, and chair of the Educational Statisticians AERA SIG. Dr. Bradley been recognized as an outstanding advisor by Midwest Educational Research Association (MWERA), and her students have gone on serve in prominent roles in state education, academia, measurement boards, and evaluation organizations. In the college, she has served as a faculty-mentor, student research group leader, chair of COE Faculty Council, chair of College Promotion, Reappointment, and Tenure committee, and interim-Director of Graduate Studies. Professor Bradley teaches quantitative methods, measurement, research writing, and statistics courses. She holds a PhD in quantitative research, evaluation, and measurement from The Ohio State University an M.S. in statistics from the University of South Carolina, a B.S. in mathematics and sociology and a B.A. in mathematics education from Fairmont State College. |