

Course Faculty Course Format

List of instructors

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This tutorial will be a **4-hour mini-course** on tools for conducting open and reproducible research with R. It will overview the idea and importance of reproducible research for educational researchers, cover R Markdown for weaving text with code, and discuss *git/GitHub* for version control and collaboration. Part of the benefit of R Markdown is that the syntax itself is relatively straightforward (learning to code with R is much more difficult than learning R Markdown), but is a powerful framework for presenting research findings in a variety of formats, including static web pages, slides, technical reports, and even APA-formatted journal articles. While the heart of our presentation will focus on helping participants to become familiar with and comfortable using R Markdown and version control toward the ultimate goal of more open, transparent, and reproducible analysis workflows, we also spend some time discussing these alternative output formats by way of motivating participants to continue learning beyond the mini-course. Both of the authors are experienced R users and have been using reproducible research principles in their applied work for a number of years.