An academic scientist’s professional success depends on publishing. Current practices incentivize researchers to make design, analysis, and reporting decisions that promote novel, positive and exciting results and ignore negative results. These incentives inflate the rate of false effects in published science. When incentives favor novelty over replication, false results persist in the literature unchallenged, reducing efficiency in knowledge accumulation. This talk touches on the evidence and challenges for reproducibility in scientific research, then delves deeper into initiatives to nudge incentives and norms toward practices that can improve reproducibility.

Using example studies, participate in creating a reproducible project from start to finish. Learn:

- Strategies to increase the validity of statistical results (i.e., power analysis and preregistration)
- Ways to increase research transparency and reproducibility (i.e., documentation and version control)
- How to use open source tools, including the Center for Open Science’s Open Science Framework, to easily incorporate reproducible, transparent practices into your current scientific workflow