

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Roundtable on Data Science Postsecondary Education
Meeting #6 Agenda—March 23, 2018

Improving Reproducibility by Teaching Data Science as a Scientific Process

**Hotel Shattuck Plaza
2086 Allston Way, Crystal Ballroom Section 2
Berkeley, CA 94704**

Join the Webcast:

http://sites.nationalacademies.org/DEPS/BMSA/DEPS_184420

MEETING TOPICS:

Discuss how data science education can help understanding and improvement of the reproducibility of scientific research

Learn about current practices in training for reproducible data science in academia, industry, and government organizations

Upcoming Dates:

June 13, 2018: Roundtable Meeting #7—Data Science in 2-Year Colleges, Washington, DC (tentative)

September 17, 2018: Roundtable Meeting #8—Improving Female and Underrepresented Minority Participation in Data Science, Atlanta, GA (tentative)

December 10, 2018: Roundtable Meeting #9—Balancing Education in Employable Skills and General Knowledge, Washington, DC (tentative)

*Committee on Applied and Theoretical Statistics
Board on Mathematical Sciences and Analytics
Computer Science and Telecommunications Board
Board on Science Education*

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Friday, March 23

Improving Reproducibility by Teaching Data Science as a Scientific Process

9:00 AM ¹	Welcome, new members, and introduction to the day <i>Eric Kolaczyk, Boston University</i> <i>Kathy McKeown, Columbia University</i>
9:15 AM	Data Science as a Science: Methods and Tools at the Intersection of Data Science and Reproducibility <i>Victoria Stodden, University of Illinois, Urbana-Champaign</i>
9:45 AM	Teaching Reproducible Data Science: Lessons Learned from a Course at Berkeley <i>Fernando Perez, University of California, Berkeley</i>
10:15 AM	Break
10:35 AM	Reproducible Machine Learning—The Team Data Science Process <i>Buck Woody, Microsoft Research</i>
11:05 AM	Group discussion of morning presentations
11:45 AM	Lunch
12:45 PM	Training as a Pathway to Improve Reproducibility <i>Tracy Teal, Data Carpentry</i>
1:15 PM	Rigor, Reproducibility, and Transparency Training in Biomedical Research <i>Alison Gammie, National Institute of General Medical Sciences</i>
1:45 PM	Buried in Data, Starving for Information: How Measurement Noise is Blocking Scientific Progress <i>Timothy Gardner, Riffyn</i>
2:15 PM	Break
2:30 PM	Group discussion of afternoon presentations
3:00 PM	Begin breakout group discussions END WEBCAST
3:40 PM	Report back of breakout group discussions and closing
4:05 PM	Adjourn meeting

¹ All times Pacific time zone