

*The National Academies of*  
**SCIENCES • ENGINEERING • MEDICINE**

**Data in Motion: New Approaches to Advancing Scientific, Engineering  
and Medical Progress**

Board on Research Data and Information  
National Academies of Sciences, Engineering and Medicine

AGENDA

October 14-15, 2020 (Wednesday-Thursday)

Zoom Information available to registered attendees

**Overview:** The workshop will explore how researchers in different domains are utilizing data that undergoes repeated processing, often in real-time, to accelerate discovery and the challenges they are facing. The discussions will explore what advances will be needed to enable progress in the future, in areas such as artificial intelligence, cyberinfrastructure, standards, and policies.

**Wednesday, October 14, 2020**

11:00 AM ET

**Welcome and Goals for the Workshop**

Workshop Chair: James Hendler, Rensselaer Polytechnic Institute

11:15 AM

**The Need for Fast Response Science: COVID and Other  
Challenges/Drivers**

Session Moderator: Stuart Feldman, Schmidt Futures

Panelists:

David Haussler, Investigator, Howard Hughes Medical Institute and  
Distinguished Professor, Biomolecular Engineering, University of  
California, Santa Cruz

Ana Bonaca, Fellow at the Institute for Theory and Computation, Harvard  
University

Mark Zelinka, Climate and Atmospheric Scientist, Lawrence Livermore  
National Laboratory

12:15 PM

**Identifying and Securing the Needed Scientific Infrastructure**

Session Moderator: Salman Habib, Argonne National Laboratory

Panelists:

Nicholas Schwarz, Principal Computer Scientist/Group Leader, The Advanced Photon Source, Argonne National Laboratory

Peter Fox, Professor, Department Head, Graduate Program Director, IT and Web Science, Rensselaer Polytechnic Institute

Andrew Connolly, Washington Research Foundation Data Science Chair, Department of Astronomy, University of Washington

1:30 PM **Young Researcher Perspectives**

Evan Zhao, Schmidt Science Fellow

Amy Shepherd, Schmidt Science Fellow

Ina Anreiter, Schmidt Science Fellow and Department of Neurobiology, Stanford University

2:15 PM **Adjourn Day One**

**Thursday, October 15, 2020**

11:00 AM **Dissemination and Sharing**

Session Moderator: Amy Brand, MIT Press

Panelists:

Stefano Bertozzi, Professor of Health Policy and Management, University of California, Berkeley

Jessica Polka, Executive Director, ASAPbio

Vilas Dhar, President, McGovern Foundation

12:15 PM **What Does it Mean?**

Session Chair: James Hendler

Panelists:

William Regli, Director, Applied Research Laboratory for Intelligence and Security (ARLIS), University of Maryland

Julia Lane, Professor, Wagner School of Public Policy, New York University

Hiroaki Kitano, President & CEO, Sony Computer Science Laboratories, Inc.

1:30 PM **Summary Remarks and Concluding Discussion**

James Hendler, Workshop Chair

2:00 PM **Adjourn**