# C3.ai Digital Transformation Institute

**FALL 2021**

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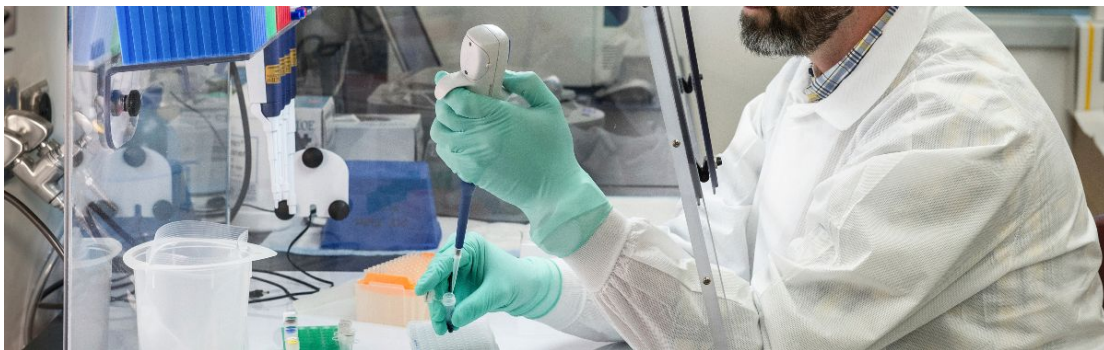


## Year-out report: AI vs. coronavirus

With the launch of the C3.ai Digital Transformation Institute in March 2020, the new organization immediately set its sights on advancing technologies to mitigate the impacts of COVID-19 and future pandemics. Working with consortium universities and industry partners, in the past year the Institute has built a community of researchers developing the Science of Digital Transformation.

- See 2020-2021 Annual Report

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# C3.ai DTI grants $4.4M for 21 AI projects for energy & climate security

Lightning talks from six researchers describe projects to improve resilience, sustainability, and efficiency through such measures as carbon sequestration, carbon markets, smart grid analytics, and distributed energy resource management, funded by C3.ai DTI in its second call in spring 2021.

- Watch lightning talks
- See announcement of all 21 awarded projects
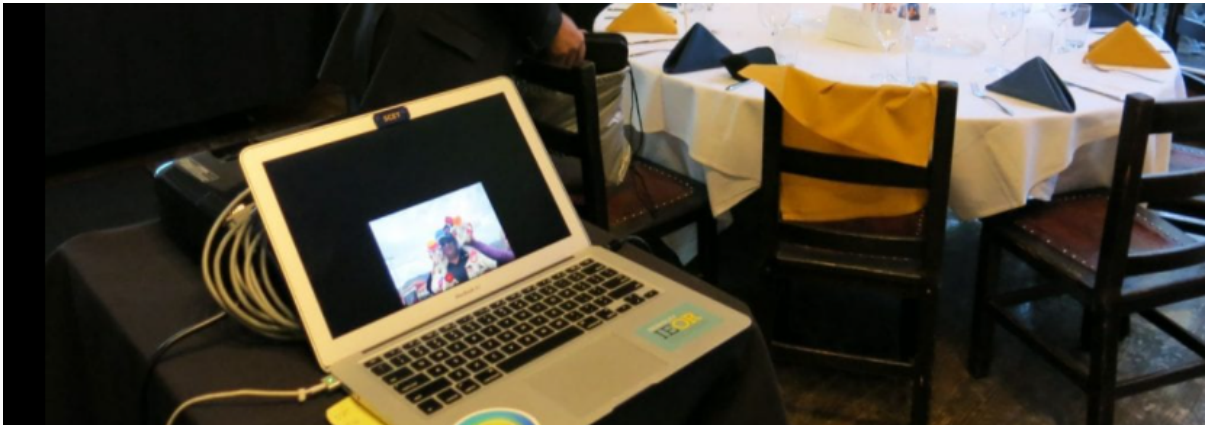


# Join top AI scientists at fall colloquia

At the Fall 2021 Colloquium on Digital Transformation Science, leading scientists from academia and industry will discuss their research at a series of 11 hour-long online talks held weekly, Thursdays at 1 pm PT/4 pm ET. The series begins September 2, with **Shmuel Oren** of UC Berkeley.

- See fall speaker slate
- Register for the series

# Fall workshops offer deep dives into ML networks, built environment

C3.ai DTI presents two in-depth, multi-day workshops this fall, on machine learning networks September 22-24, and on the digital transformation of the built environment October 26 & 28. All workshop presentations and discussions will be livestreamed and archived on the C3.ai DTI YouTube channel.

- See fall workshop programs



# Meet Perlmutter, Berkeley Lab's Next-Gen Supercomputer

*LBNL News:* The National Energy Research Scientific Computing Center (NERSC) at Berkeley Lab deployed its next-generation supercomputer, named in honor of the Lab's Nobel Prize-winning astrophysicist **Saul Perlmutter**, to greatly increase the high-performance computing capability for a broad spectrum of unclassified scientific research within the U.S. Department of

Energy Office of Science. C3.ai DTI researchers will receive access to the new supercomputer as part of grant awards from the Institute

- Read more



# COVIDAnalytics aid J&J vaccine trials

*MIT News:* A machine learning model developed jointly by Janssen and MIT data scientist **Dimitris Bertsimas** played a key role in the clinical trial process for the Johnson & Johnson C19 vaccine. With C3.ai DTI funding, Bertsimas developed the publicly available COVIDAnalytics online platform to track the spread of the virus and predict patient outcomes. "Being able to determine where Covid-19 is likely to spike next proved to be critical to the success of Janssen's clinical trials," the article states.

- Read the article



# As CDC moratorium ends, FAQ from

In response to the COVID-19 pandemic, with funding from C3.ai DTI, the Eviction Lab at Princeton built the Eviction Tracking System to track eviction filings in the U.S. in real time. Lab researchers estimate the moratorium prevented 1.5 million evictions that otherwise would have occurred in a non-pandemic year. Now a highly sought-after national authority, the Eviction Lab offers this FAQ for vulnerable renters.

- Read more

# Watch all C3.ai DTI talks on our YouTube channel

## YouTube.com/C3DigitalTransformationInstitute

*The Science of Digital Transformation*



## About the C3.ai Digital Transformation Institute

Established in March 2020 by C3.ai, Microsoft, and leading universities, the C3.ai Digital Transformation Institute is a research consortium dedicated to accelerating the socioeconomic benefits of artificial intelligence. The Institute engages the world's leading scientists to conduct research and train practitioners in the new Science of Digital Transformation, which operates at the intersection of artificial intelligence, machine learning, cloud computing, internet of things, big data analytics, organizational behavior, public policy, and ethics. The 10 C3.ai Digital Transformation Institute consortium member universities and laboratories are: University of Illinois at Urbana-Champaign; University of California, Berkeley; Carnegie Mellon University; KTH Royal Institute of Technology; Lawrence Berkeley National Laboratory; Massachusetts Institute of Technology; National Center for Supercomputing Applications at University of Illinois at Urbana-Champaign; Princeton University; Stanford University; and University of Chicago. Learn more at C3DTI.ai.