



## **Innovation through collaboration, four years of cutting edge AI research**

The MIT-IBM Watson AI Lab is excited to announce funding for over twenty-five new research projects for the coming year, bringing the Lab's total to over 100 active projects. Several of the new ones fall into the realm of materials science, where Lab researchers will be examining AI applications for semiconductor manufacturing, industrial zeolite synthesis, reduction of concrete emissions, and drug repurposing. Others will focus on societal impacts and outcomes, like identifying bias in clinical notes in patient records, translating legacy codebase in older software into modern languages, examining AI's economic effects on the labor market, and designing AI systems for assisted decision making. We thank you for supporting the Lab, and wish you a healthy and productive semester ahead.

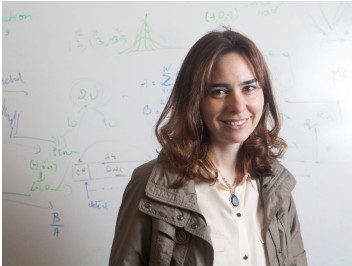
Aude Oliva, MIT director of the MIT-IBM Watson AI Lab  
David Cox, IBM director of the MIT-IBM Watson AI Lab

## **In The Lab**



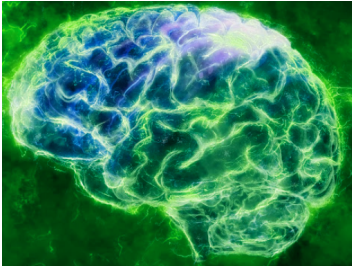
### **MSRP Industry Night: Career Exploration with IBM**

With a wide array of advice, three IBM professionals urged students in the 36th MIT Summer Research Program (MSRP) to hold tight to both their sense of curiosity and fun when they transition out of academic life. [Read more.](#)



## Toward a "smart" home with actual intelligence

Dina Katabi is working on the next generation of smart wireless devices that, rather than being worn, will sit in the background gathering and interpreting data. In this Q&A, she discusses some of her recent work. [Read more.](#)



## 2021 Algonauts Video Challenge

The Algonauts Project brings biological and machine intelligence researchers together on a common platform to exchange ideas and advance both fields. The 2021 challenge focused on designing new computational models that explain responses in the human brain as people watched short video clips of everyday actions. [Read More.](#)

## Save the Date



### September 18-19: HackMIT 2021

Join us and students from around the world for [HackMIT 2021](#), a virtual weekend-long event where students come together to work on cool new software and/or hardware projects.

## In the media



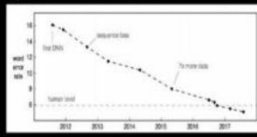
### Can you teach AI common sense?

"We believe that the path from narrow to broad AI has to include models that have common sense," says Dan Gutfreund to [VentureBeat.](#)

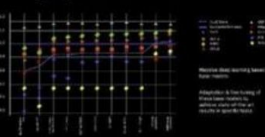
## Inspiration for AI for Code

We have seen the power of AI applied to human language

Speech Performance



Language Benchmarks



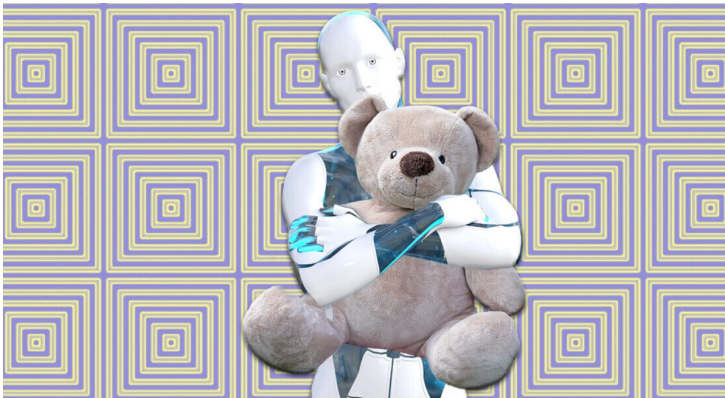
## IBM CodeNet: Artificial Intelligence That Can Program Computers And Solve A \$100 Billion Legacy Code Problem

Complete article, [Forbes](#).



## AI for chemistry: IBM and Evonik Industries to boost material design

Researchers explore how AI can help accelerate the development and optimization process of materials. [IBM Research](#).



## This new robotics challenge could bring us closer to human-level AI

Scientists at IBM, MIT, and Stanford assessed AI agents finding paths, object interaction, & planning. [TheNextWeb](#).

## Summer Highlights

As part of the MIT Schwarzman College of Computing, the [Social and Ethical Responsibilities of Computing \(SERC\)](#) team published peer-reviewed case studies, across a range of topics and fields of study, for students, educators, computing professionals, and policy specialists.

Throughout Summer 2021, the Lab was active in several conferences, including the Association for Computational Linguistics (ACL), Conference on Learning Theory (COLT), Conference on Computer Vision and Pattern Recognition (CVPR), and International Conference on Machine Learning (ICML).



MIT-IBM Watson AI Lab, 75 Binney Street  
Cambridge, Mass., 02142  
[unsubscribe](#) | [subscribe and update preferences](#)