



Abdul Latif Jameel
Water & Food Systems Lab

Securing humankind's vital resources



WORLD FOOD DAY 2022

SPECIAL EDITION NEWSLETTER



World Food Day Student Video Competition



J-WAFS World Food Day Student Video Competition

In honor of World Food Day, J-WAFS held a competition that called for MIT students & recent alumni to submit short videos on their food or agriculture research. View the four prize winning videos below!



FIRST PLACE WINNER!

Vishnu Jayaprakash, a recent MechE alum, helped develop technology that uses plant-derived oils to cloak sprayed pesticide droplets on crops, reducing pollution & helping farmers economically.

[WATCH NOW](#)

SECOND PLACE WINNER!

PhD students Sarah Av-Ron of DMSE & Kat Fransen of ChemE are developing biodegradable plastics for sustainable food packaging. They also won Judges' Choice awards: "Research Originality" & "Creative Communication."

[WATCH NOW](#)



JUDGES' CHOICE AWARDS!

Rhoda Zhang, a PhD student in ChemE, won "Potential for Impact" & a Judges' Special Award for "Recognizing the Role of Nutrition in Food Security" for her edible materials that protect nutrients & remain intact during cooking.

[WATCH NOW](#)



JUDGES' CHOICE AWARD!

Mona Vijaykumar, a recent DUSP alum, and T.R. Radhakrishnan of Harvard, won the "Social Impact" award for their project that optimizes post-harvest value chains for smallholder farmers in rural India.

[WATCH NOW](#)



J-WAFS FOOD-RELATED RESEARCH HIGHLIGHTS BY THE NUMBERS

276M people globally...

are food insecure. Read about J-WAFS'

30-50% of food...

produced in many countries is lost

new initiative that addresses the relationship between climate, food trade, and food security.

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before it reaches the table. This project is developing low-cost cooling technologies for fruits & vegetables.

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1/2 of the world...

is sustained on staple crops like rice & wheat, but they are vulnerable to climate risks. This project aims to increase genetic diversity in plants to help make crops resistant to drought and other environmental shocks.

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2021-2050 marks...

the near-term period during which this project is investigating the climate change risks to water availability and food productivity from rain-fed agriculture in the southern fringes of the Sahara Desert.

[READ MORE](#)

THANK YOU JUDGES!



Our World Food Day Student Video Competition would not have been possible without the help of a distinguished panel of judges comprised of food systems experts across industry and academia.

[LEARN MORE](#)

INTERESTED IN SUPPORTING J-WAFS?

When you make a gift, you are making an investment in both the future of J-WAFS and our Institute-wide work to improve the productivity, accessibility, and sustainability of the world's water and food systems.

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ABOUT SPONSORSHIP OPPORTUNITIES, CONTACT:**

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J-WAFS is an Institute-wide effort that brings MIT's unique strengths to bear on the many challenges our food and water systems face.

Our program catalyzes MIT research, innovation, and technology for ensuring safe and resilient supplies of water and food while reducing environmental impact, to meet the local and global needs of a rapidly expanding and evolving population on a changing planet.



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