



National Science Foundation: Supporting Research at Michigan

The National Science Foundation (NSF) is the second-largest funder of sponsored research at the University of Michigan (U-M). NSF funding enables researchers at U-M to conduct groundbreaking, fundamental and interdisciplinary research. NSF grants also support science, technology, engineering and mathematics education, training the next generation of scientists and engineers.

U-M partners with other universities to host one of nine NSF I-Corps Nodes. The Midwest I-Corps Node, located in Ann Arbor, supports regional needs for innovation education, infrastructure and research. Robust investment in NSF helps the nation remain at the forefront of scientific discovery and innovation.

\$83M

Research Expenditures
in FY2018

1007 Active Projects

10%
of Overall

U-M Federal
Support

**U-M research projects supported by NSF
annually involve about:**

**850 Faculty
77 Postdoctoral Fellows
128 Graduate Students**



Fake News Detector

An algorithm-based system that identifies telltale linguistic cues in fake news stories could provide news aggregator and social media sites like Google News with a new weapon in the fight against misinformation. The U-M researchers who developed the system have demonstrated that it's comparable to, and sometimes better than, humans at correctly identifying fake news stories. "You can imagine any number of applications for this on the front or back end of a news or social media site," said U-M Professor Rada Mihalcea.



Floodproofing Cities

Autonomous "smart" technologies for aging stormwater systems are being developed at U-M to lessen the impacts of flooding. Through a \$1.8 million grant, U-M assistant Professor Branko Kerkez is investigating how "smart" stormwater systems can reconfigure urban watersheds in real-time to reduce flooding and improve water quality. "There is an unprecedented opportunity now to combine everything we know about water with all of these new advances in technology and create solutions that bring the two together in a meaningful way," Kerkez said.



Brain Mapping

The technology exists to stimulate and map circuits in the brain, but neuroscientists have yet to tap this potential. A \$7.7 million grant will allow developers of these technologies to demonstrate and share them, driving a rapid advance in our understanding of the brain. "We want to put our technology into the hands of people who can really use it," said U-M Professor Euisik Yoon.