DIRECTOR'S REMARKS

National Science Board
February 23, 2021

Aligned Visions

NSB Vision 2030	NSF Vision	Administration Pillars
Research benefits	Advancing research	Pandemic response
STEM talent	Accessibility and inclusivity	Economic recovery
Geography of innovation	Global leadership	Racial equity
Global S&E community	Translation, Innovation, Partnerships (TIP)	Climate change

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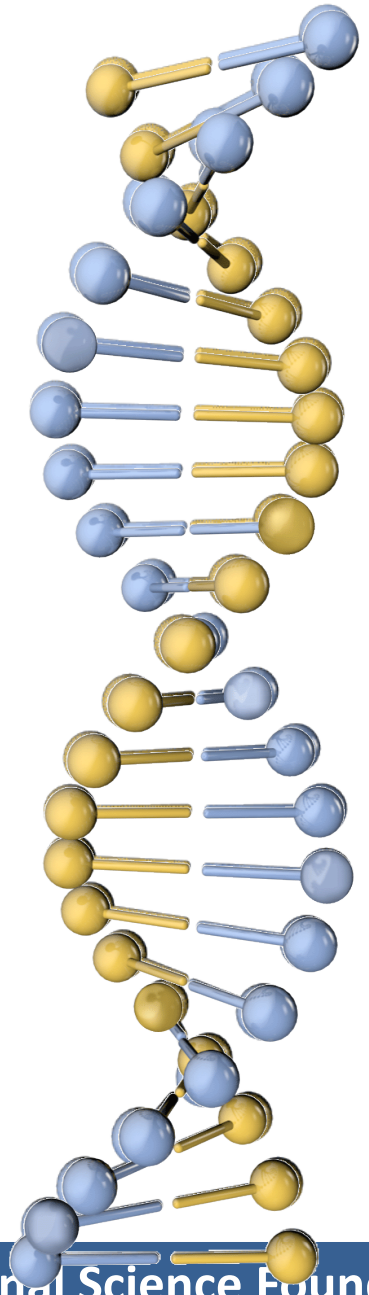
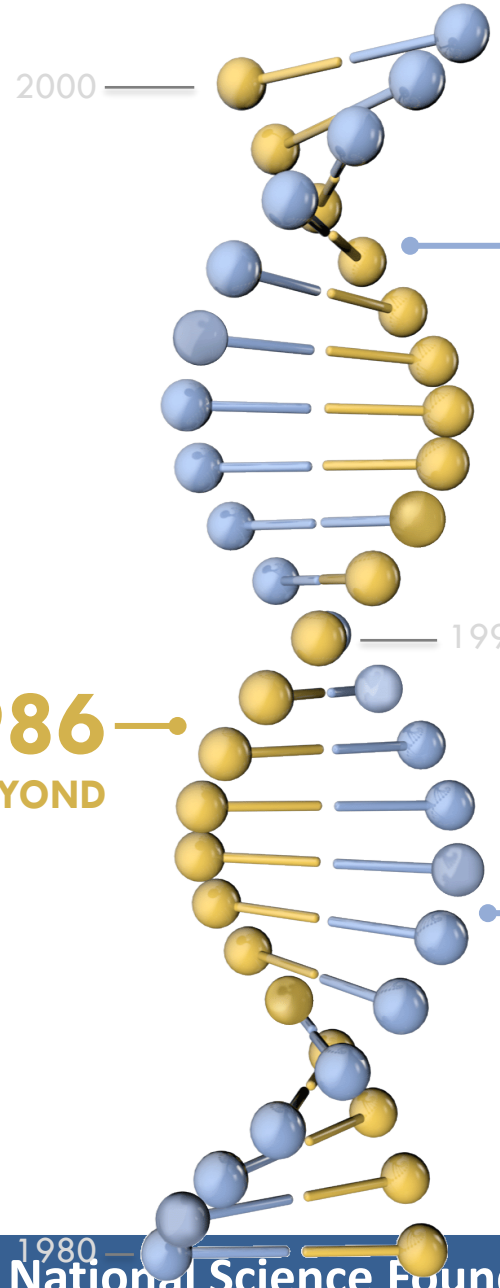
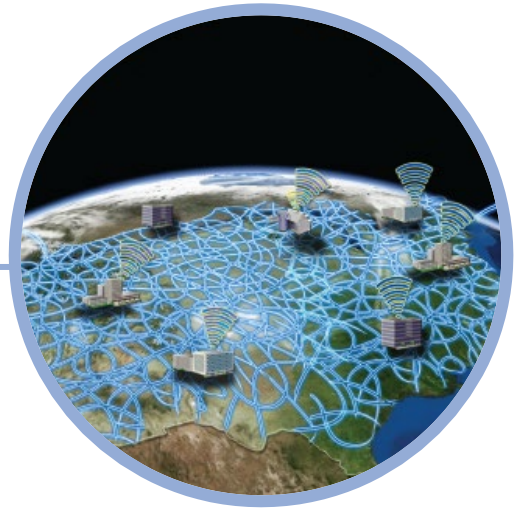
EXPLORATION



TRANSLATION



1995



INTERNET COMMERCIALIZATION

1985

NSF NET

1986

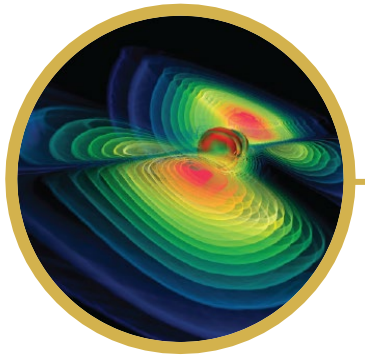
AND BEYOND

NSFNET ENABLES EXPLORATORY RESEARCH AT UNIVERSITIES

LIGO ENABLES FURTHER EXPLORATION

2020

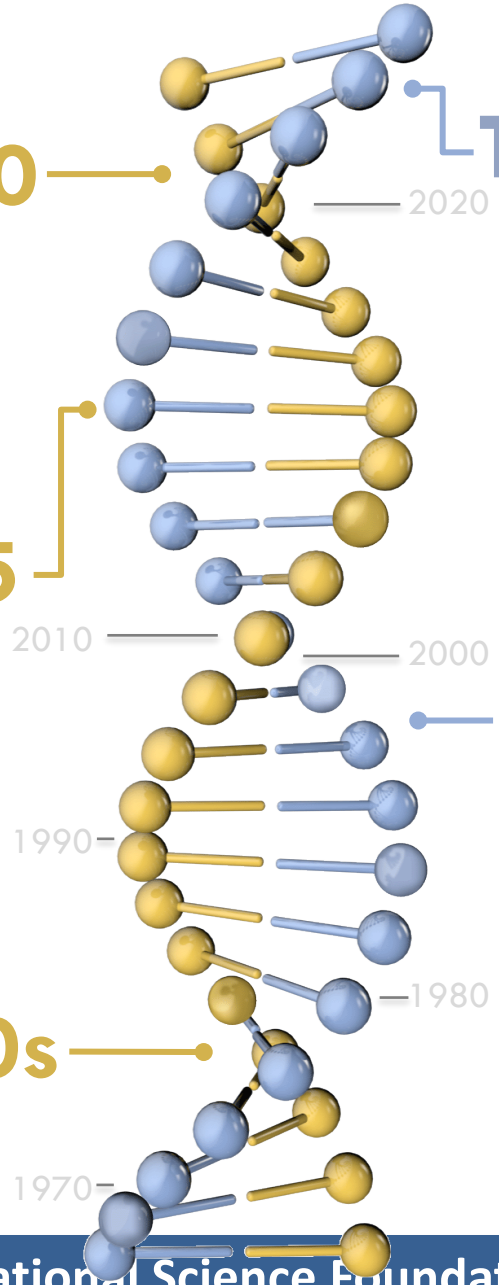
GRAVITATIONAL WAVES DETECTED



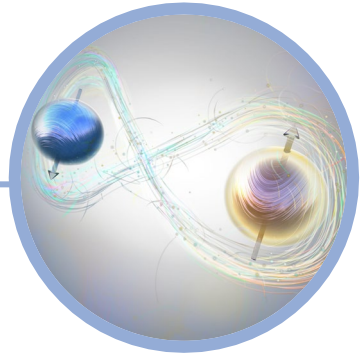
2015

RESEARCH TO PROVE THE THEORY OF GRAVITATIONAL WAVES BEGINS

1970s



TODAY



ENHANCED QUANTUM SENSING CAPABILITIES

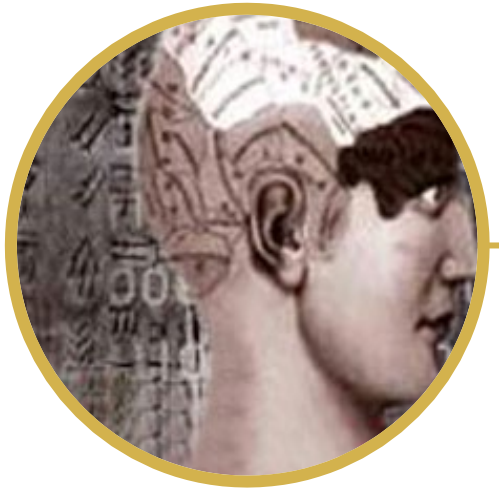
1999

LIGO DETECTORS COMPLETED

2000

1998

ENABLED FOUNDING OF GOOGLE



1994

DIGITAL LIBRARIES INITIATIVE

1990

Science Highlights

Ensuring the Success of STEM Graduate Education during the COVID-19 Crisis and in the Future

Model analyzes how viruses escape the immune system

Researchers identify viral protein sequences that could inform therapeutic design

FEBRUARY 2021

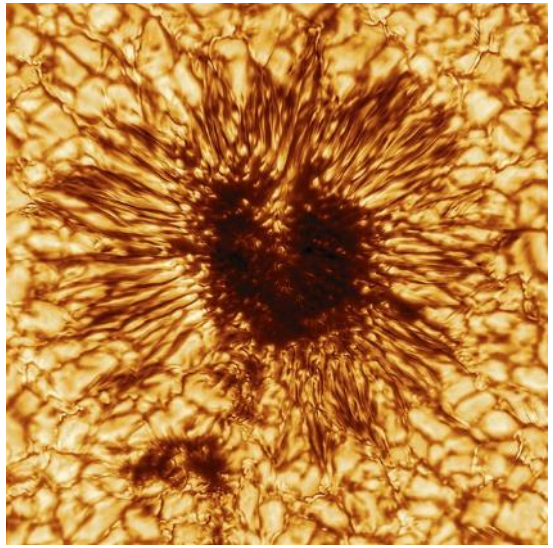
STRATEGIES FOR BUILDING CONFIDENCE IN THE COVID-19 VACCINES

Science Highlights

THE MICHIGAN ENGINEER NEWS CENTER RESEARCH CAMPUS & COMMUNITY

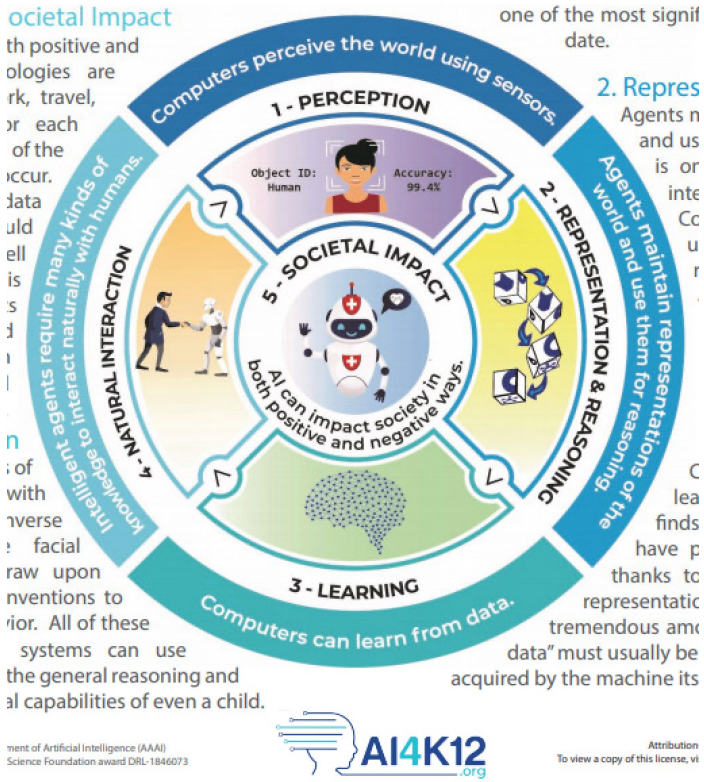
DYNAMO achieves first observation of the "charge separation effect"

Room temperature Superconductor



A sunspot in super high-res

5 Big Ideas in AI



National Science Foundation

Meeting with Stakeholders and Partners

CNSF COALITION FOR NATIONAL SCIENCE FUNDING

Association of American Universities
Inquiry · Innovation · Impact

URA UNIVERSITIES RESEARCH ASSOCIATION

APS physics

AMS American Meteorological Society

Emerson Collective

AAAS

GLOBAL RESEARCH COUNCIL

AITU ASSOCIATION OF INDEPENDENT TECHNOLOGICAL UNIVERSITIES

accenture amazon AMD

BATTELLE BOEING

Cleveland Clinic ERICSSON

Ford gm G IBM

intel THE KAVLI FOUNDATION leidos

Microsoft NOKIA

SCHMIDT FUTURES SIMONS FOUNDATION vmware

Support from Congress

- Senate Committee on Commerce, Science, and Transportation
- Senate Appropriations Subcommittee on Commerce, Justice, Science, and Related Agencies
- House Committee on Science, Space, and Technology
- House Appropriations Subcommittee on Commerce, Justice, Science, and Related Agencies

Outreach Example

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