

# Our Research Community

CIFAR  
global network

403

Researchers\*

201

Fellows

64

Advisors

33

CIFAR Azrieli  
Global Scholars

113

Canada CIFAR  
AI Chairs

141

Institutions

21

Countries

Bringing the world's  
best minds together

59

Virtual program meetings  
and cross-programmatic  
events



Addressing the most  
important questions  
facing science  
and humanity

1,765

Publications influenced  
by CIFAR activities\*\*



451

Publications co-authored  
by two or more CIFAR  
researchers\*\*\*



91.2%

Percentage of researchers report that  
participation in CIFAR activities has  
positively informed or impacted their  
research (e.g., influence on their  
research directions, new ideas, etc.)

Extraordinary  
minds

96

Major international awards  
and honours received by our  
fellows, advisors, CIFAR Azrieli  
Global Scholars, and Canada  
CIFAR AI Chairs



CIFAR: A global  
meeting place for  
collaboration

87

Formal partnerships with  
governments, research  
organizations, industry,  
and foundations



121

Individuals convened outside academia  
(e.g., policymakers, clinical scientists, and  
industry leaders) with CIFAR's research  
community through 10 engagements  
focused on societal impact

High-impact  
scholarship

254

Fellows, advisors, and CIFAR  
Azrieli Global Scholars (65%)  
contributed to the top 1% of  
most-cited papers worldwide  
from 2016-2020\*\*\*\*



High-risk,  
high-reward  
ideas

44

Catalyst Funds awarded

\$1,966,344

Amount in Catalyst grants  
to support high-risk,  
high-reward projects  
by our fellows and scholars  
to accelerate discovery



\* Includes active researchers in all CIFAR programs as of March 31, 2022. Note that 14 researchers hold dual appointments as a Canada CIFAR AI Chair, and as a CIFAR Fellow, or an Advisor, or a CIFAR Azrieli Global Scholar.

\*\* Self-reported number of peer-reviewed journal articles, conference papers, books and book chapters, and publicly released working papers, position papers or policy reports influenced by participation in CIFAR programs. (Source: Program Member Annual Reports, 2022, n=226 researchers)

\*\*\* Self-reported number of publications co-authored with other CIFAR researchers. (Source: Program Member Annual Reports, 2022, n=226 researchers)

\*\*\*\* Percentage of CIFAR researchers contributing to the top 1% of most-cited papers at the world level from 2016-2020 using SciVal and Scopus. Excludes Solutions Networks because they are not expected to publish traditionally and 5 chairs appointment while the 2021-22 year was already in progress (Glen Berseth, Foutse Khomh, Dhanya Sridhar, Anna Huang, Bang Liu).

## APPENDIX D:

# Selected Awards & Honours Received

In 2021/2022, CIFAR Fellows, Advisors, CIFAR Azrieli Global Scholars, and Canada CIFAR AI Chairs received 96 major awards and honours.

## AWARDS

### 35 INNOVATORS UNDER 35 (MIT TECH REVIEW, USA)

**David Rolnick**  
McGill University and Mila  
Canada CIFAR AI Chair

### ACS AWARD IN PURE CHEMISTRY (AMERICAN CHEMICAL SOCIETY, USA)

**Gabriela Schlau-Cohen**  
Massachusetts Institute of Technology  
Bio-inspired Solar Energy

### ALEXANDER VON HUMBOLDT PROFESSORSHIP FOR ARTIFICIAL INTELLIGENCE (FEDERAL MINISTRY OF EDUCATION AND RESEARCH, GERMANY)

**Angela Schoellig**  
University of Toronto and  
Vector Institute  
Canada CIFAR AI Chair

### AI 2000 TOP 10 MOST INFLUENTIAL SCHOLARS – AAAI/IJCAI 2022 (AMINER, CHINA)

**Marc Bellemare**  
McGill University, Google Brain  
and Mila  
Learning in Machines & Brains  
and Canada CIFAR AI Chair

### AI 2000 TOP 10 MOST INFLUENTIAL SCHOLARS — INFORMATION RETRIEVAL AND RECOMMENDATION 2022 (AMINER, CHINA)

**Jian Tang**  
HEC Montréal and Mila  
Canada CIFAR AI Chair

### AI 2000 TOP 10 MOST INFLUENTIAL SCHOLARS — MACHINE LEARNING 2022 (AMINER, CHINA)

**Jimmy Ba**  
University of Toronto and  
Vector Institute  
Canada CIFAR AI Chair

### AI 2000 TOP 10 MOST INFLUENTIAL SCHOLARS — NATURAL LANGUAGE PROCESSING 2022 (AMINER, CHINA)

**Kyunghyun Cho**  
New York University  
Learning in Machines & Brains

**Christopher Manning**  
Stanford University  
Learning in Machines & Brains

### AI 2000 TOP 10 MOST INFLUENTIAL SCHOLARS — ROBOTICS 2022 (AMINER, CHINA)

**Pieter Abbeel**  
University of California, Berkeley  
Learning in Machines & Brain

### AI 2000 TOP 10 MOST INFLUENTIAL SCHOLARS — SECURITY AND PRIVACY 2022 (AMINER, CHINA)

**Nicolas Papernot**  
University of Toronto and  
Vector Institute  
Canada CIFAR AI Chair

### ALFRED P. SLOAN RESEARCH FELLOW (ALFRED P. SLOAN FOUNDATION, USA)

**David Duvenaud**  
University of Toronto and  
Vector Institute  
Canada CIFAR AI Chair

**Peter McMahan**  
Cornell University  
Quantum Information Science  
and CIFAR Azrieli Global Scholar

**Nicolas Papernot**  
University of Toronto and  
Vector Institute  
Canada CIFAR AI Chair

**David Yang**  
Harvard University  
Innovation, Equity & the Future  
of Prosperity and CIFAR Azrieli  
Global Scholar

### APA DISTINGUISHED SCIENTIFIC CONTRIBUTIONS AWARD (AMERICAN PSYCHOLOGICAL ASSOCIATION, USA)

**Megan Gunnar**  
University of Minnesota  
Child & Brain Development

### BALSILLIE PRIZE FOR PUBLIC POLICY (WRITERS' TRUST OF CANADA, CANADA)

**Dan Breznitz**  
University of Toronto  
Innovation, Equity & the Future  
of Prosperity

### CAIAC LIFETIME ACHIEVEMENT AWARD (CANADIAN ARTIFICIAL INTELLIGENCE ASSOCIATION)

**Russell Greiner**  
University of Alberta and Amii  
Canada CIFAR AI Chair

### CANADA RESEARCH CHAIR (GOVERNMENT OF CANADA)

**Matt Dobbs**  
McGill University  
Gravity & the Extreme Universe

**Michael Kobor**  
University of British Columbia  
Child & Brain Development

**Guillaume Lajoie**  
Université de Montréal and Mila  
Canada CIFAR AI Chair

**Rebecca Shapiro**  
University of Guelph  
Fungal Kingdom: Threats &  
Opportunities and CIFAR Azrieli  
Global Scholar

### CANADA'S TOP 40 UNDER 40 (CALDWELL PARTNERS, CANADA)

**Meghan Azad**  
University of Manitoba  
Humans & the Microbiome

### CNRS SILVER MEDAL (CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FRANCE)

**Catherine Tallon-Baudry**  
École normale supérieure  
Brain, Mind & Consciousness

### COMPARATIVE COGNITION SOCIETY RESEARCH AWARD (COMPARATIVE COGNITION SOCIETY, USA)

**David Sherry**  
Western University  
Brain, Mind & Consciousness

### DIRAC MEDAL (INTERNATIONAL CENTER FOR THEORETICAL PHYSICS, INDIA)

**Frans Pretorius**  
Princeton University  
Gravity & the Extreme Universe

### DISTINGUISHED MYCOLOGIST AWARD (MYCOLOGICAL SOCIETY OF AMERICA, USA)

**Joseph Heitman**  
Duke University  
Fungal Kingdom: Threats  
& Opportunities

### EARLY CAREER AWARD IN ROBOTICS AND AUTOMATION (IEEE ROBOTICS AND AUTOMATION SOCIETY, USA)

**Chelsea Finn**  
Stanford University  
Learning in Machines & Brains

### EATCS DISTINGUISHED ACHIEVEMENTS AWARD (EUROPEAN ASSOCIATION FOR THEORETICAL COMPUTER SCIENCE)

**Toniann Pitassi**  
University of Toronto and  
Vector Institute  
Canada CIFAR AI Chair

### EMET PRIZE IN LIFE SCIENCES (AMN FOUNDATION FOR THE ADVANCEMENT OF SCIENCE, ART AND CULTURE, ISRAEL)

**Rafael Malach**  
Weizmann Institute of Science  
Brain, Mind & Consciousness

### FACULTY EARLY CAREER DEVELOPMENT (CAREER) AWARD (NATIONAL SCIENCE FOUNDATION, USA)

**Lillian Fritz-Laylin**  
University of Massachusetts, Amherst  
Fungal Kingdom: Threats  
& Opportunities

**Magdalena Osburn**  
Northwestern University  
Earth 4D: Subsurface Science  
& Exploration

### FRED KAVLI INNOVATIONS IN CHEMISTRY LECTURE (AMERICAN CHEMICAL SOCIETY)

**Alán Aspuru-Guzik**  
University of Toronto and  
Vector Institute  
Bio-inspired Solar Energy  
and Canada CIFAR AI Chair

### GRAND PRIX SCIENTIFIQUE (LA FONDATION POUR L'AUDITION, FRANCE)

**Robert Zatorre**  
McGill University  
Brain, Mind & Consciousness

### GOOGLE CLOUD RESEARCH INNOVATOR AWARD (USA)

**Alona Fyshe**  
University of Alberta and Amii  
Learning in Machines & Brains and  
Canada CIFAR AI Chair

**Martha White**  
University of Alberta and Amii  
Canada CIFAR AI Chair

### GOOGLE RESEARCH SCHOLAR AWARD (USA)

**Jimmy Ba**  
University of Toronto and  
Vector Institute  
Canada CIFAR AI Chair

**Golnoosh Farnadi**  
HEC Montréal and Mila  
Canada CIFAR AI Chair

**GRUBER COSMOLOGY PRIZE (GRUBER FOUNDATION AND INTERNATIONAL ASTRONOMICAL UNION)**

**Matias Zaldarriaga**  
Institute for Advanced Study  
Gravity & the Extreme Universe

**HBP INNOVATION AWARD (HUMAN BRAIN PROJECT, EUROPEAN UNION)**

**Marcello Massimini**  
University of Milan  
Brain, Mind & Consciousness

**IJCAI AWARD FOR RESEARCH EXCELLENCE (INTERNATIONAL JOINT CONFERENCES ON ARTIFICIAL INTELLIGENCE ORGANIZATION)**

**Richard Sutton**  
University of Alberta, DeepMind and Amii  
Learning in Machines & Brains and Canada CIFAR AI Chair

**JAPT SPECIAL AWARD (JAPAN ASSOCIATION FOR PETROLEUM TECHNOLOGY)**

**Fumio Inagaki**  
Japan Agency for Marine-Earth Science and Technology (JAMSTEC)  
Earth 4D: Subsurface Science & Exploration

**KLAUS J. JACOBS RESEARCH PRIZE (JACOBS FOUNDATION, SWITZERLAND)**

**Charles Nelson**  
Harvard University  
Child & Brain Development

**LAGRANGE PRIZE IN CONTINUOUS OPTIMIZATION (MATHEMATICAL OPTIMIZATION SOCIETY AND SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS)**

**Leon Bottou**  
Facebook AI Research  
Learning in Machines & Brains

**LANCELOT M. BERKELEY — NEW YORK COMMUNITY TRUST PRIZE FOR MERITORIOUS WORK IN ASTRONOMY (AMERICAN ASTRONOMICAL SOCIETY)**

**Matt Dobbs**  
McGill University  
Gravity & the Extreme Universe

**Mark Halpern**  
University of British Columbia  
Gravity & the Extreme Universe

**Gary Hinshaw**  
University of British Columbia  
Gravity & the Extreme Universe

**Victoria Kaspi**  
McGill University  
Gravity & the Extreme Universe

**Ue-Li Pen**  
University of Toronto  
Gravity & the Extreme Universe

**Scott Ransom**  
National Radio Astronomy Observatory  
Gravity & the Extreme Universe

**Kendrick Smith**  
Perimeter Institute for Theoretical Physics  
Gravity & the Extreme Universe

**Ingrid Stairs**  
University of British Columbia  
Gravity & the Extreme Universe

*With other members of the Canadian Hydrogen Intensity Mapping Experiment (CHIME) Fast Radio Burst Team.*

**MARGARET OAKLEY DAYHOFF AWARD (BIOPHYSICAL SOCIETY)**

**Gabriela Schlau-Cohen**  
Massachusetts Institute of Technology  
Bio-inspired Solar Energy

**MASSEY MEDAL (ROYAL CANADIAN GEOGRAPHIC SOCIETY)**

**Barbara Sherwood Lollar**  
University of Toronto  
Earth 4D: Subsurface Science & Exploration

**MAX BORN MEDAL AND PRIZE (INSTITUTE OF PHYSICS AND THE GERMAN PHYSICAL SOCIETY)**

**Claudia Felser**  
Max Planck Institute for Chemical Physics of Solids  
Quantum Materials

**MICHAEL S. PATTERSON PUBLICATION IMPACT PRIZE (CANADIAN ORGANIZATION OF MEDICAL PHYSICISTS)**

**Martin Vallières**  
Université de Sherbrooke and Mila  
Canada CIFAR AI Chair

**MICROBIOLOGY SOCIETY PRIZE MEDAL & LECTURE (MICROBIOLOGY SOCIETY, UNITED KINGDOM)**

**Martin Blaser**  
Rutgers University  
Humans & the Microbiome

**NACCS LIFETIME ACHIEVEMENT AWARD (NEURO ANAESTHESIA AND CRITICAL CARE SOCIETY, UNITED KINGDOM)**

**David Menon**  
University of Cambridge  
Brain, Mind & Consciousness

**NAS AWARD IN THE NEUROSCIENCES (NATIONAL ACADEMY OF SCIENCES, USA)**

**Nancy Kanwisher**  
Massachusetts Institute of Technology  
Brain, Mind & Consciousness

**PIERRE CHAUVEAU MEDAL (ROYAL SOCIETY OF CANADA)**

**Will Kymlicka**  
Queen's University  
Boundaries, Membership & Belonging

**RONALD GREELEY EARLY CAREER AWARD IN PLANETARY SCIENCES (AMERICAN GEOPHYSICAL UNION)**

**Timothy Goudge**  
University of Texas at Austin  
Earth 4D: Subsurface Science & Exploration and CIFAR Azrieli Global Scholar

**ROVEE-COLLIER MENTOR AWARD (INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY)**

**Megan Gunnar**  
University of Minnesota  
Child & Brain Development

**RUFUS Z. SMITH AWARD (ASSOCIATION FOR CANADIAN STUDIES IN THE UNITED STATES)**

**Will Kymlicka**  
Queen's University  
Boundaries, Membership & Belonging

**SAGE EARLY CAREER TRAJECTORY AWARD (SOCIETY FOR PERSONALITY AND SOCIAL PSYCHOLOGY, USA)**

**Michael Muthukrishna**  
London School of Economics  
Boundaries, Membership & Belonging and CIFAR Azrieli Global Scholar

**SAMSUNG HO-AM PRIZE IN ENGINEERING (HO-AM FOUNDATION, SOUTH KOREA)**

**Kyunghyun Cho**  
New York University  
Learning in Machines & Brains

**SHAW PRIZE IN ASTRONOMY (SHAW FOUNDATION, HONG KONG)**

**Victoria Kaspi**  
McGill University  
Gravity & the Extreme Universe

**TOP 25 WOMEN OF INFLUENCE (WOMEN OF INFLUENCE INC., CANADA)**

**Raquel Urtasun**  
University of Toronto  
Learning in Machines & Brains

**Honours****CHEVALIER DE LA LÉGION D'HONNEUR DE LA FRANCE (GOVERNMENT OF FRANCE)**

**Yoshua Bengio**  
Université de Montréal and Mila  
Learning in Machines & Brains and Canada CIFAR AI Chair

**FELLOW OF THE AMERICAN ACADEMY OF MICROBIOLOGY**

**Eran Elinav**  
Weizmann Institute of Science  
Humans & the Microbiome

**FELLOW OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE**

**Leon Balents**  
University of California, Santa Barbara  
Quantum Materials

**Yann LeCun**  
Facebook and New York University  
Learning in Machines & Brains

**Jeffrey McDonnell**  
University of Saskatchewan  
Earth 4D: Subsurface Science & Exploration

**FELLOW OF THE AMERICAN GEOPHYSICAL UNION**

**Fumio Inagaki**  
Japan Agency for Marine-Earth Science and Technology (JAMSTEC)  
Earth 4D: Subsurface Science & Exploration

**Victoria Orphan**  
California Institute of Technology  
Earth 4D: Subsurface Science & Exploration

**FELLOW OF THE AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY**

**Catherine Drennan**  
Massachusetts Institute of Technology  
Bio-inspired Solar Energy

**FELLOW OF THE AUSTRALIAN ACADEMY OF THE HUMANITIES**

**Tim Bayne**  
Monash University  
Brain, Mind & Consciousness

**FELLOW OF THE ROYAL SOCIETY (UNITED KINGDOM)**

**Richard Sutton**  
University of Alberta, DeepMind and Amii  
Learning in Machines & Brains and Canada CIFAR AI Chair

**Louis Taillefer**  
Université de Sherbrooke  
Quantum Materials

**FELLOW OF THE ROYAL SOCIETY OF CANADA**

**Curtis Berlinguette**  
University of British Columbia  
Bio-inspired Solar Energy

**FELLOW OF THE ROYAL SOCIETY OF CHEMISTRY (UNITED KINGDOM)**

**Alán Aspuru-Guzik**  
University of Toronto and Vector Institute  
Bio-inspired Solar Energy and Canada CIFAR AI Chair

**Osamu Ishitani**  
Tokyo Institute of Technology  
Bio-inspired Solar Energy

**FOREIGN ASSOCIATE OF THE INSTITUT DE FRANCE ACADÉMIE DES SCIENCES**

**Eva Stukenbrock**  
Max Planck Institute of Evolutionary Biology  
Fungal Kingdom: Threats & Opportunities

**FOREIGN MEMBER OF THE ROYAL SWEDISH ACADEMY OF SCIENCES**

**Charles Boone**  
University of Toronto  
Fungal Kingdom: Threats & Opportunities

**GEOCHEMISTRY FELLOW  
(GEOCHEMICAL SOCIETY AND  
THE EUROPEAN ASSOCIATION  
OF GEOCHEMISTRY)**

**Chris Ballentine**  
University of Oxford  
Earth 4D: Subsurface Science  
& Exploration

**Fumio Inagaki**  
Japan Agency for Marine-Earth  
Science and Technology (JAMSTEC)  
Earth 4D: Subsurface Science  
& Exploration

**IEA FELLOW (INTERNATIONAL  
ECONOMICS ASSOCIATION)**

**Vijayendra Rao**  
World Bank  
Boundaries, Membership & Belonging

**INTERNATIONAL MEMBER  
OF THE NATIONAL ACADEMY  
OF SCIENCES (USA)**

**Gilles Brassard**  
Université de Montréal  
Quantum Information Science

**Claudia Felser**  
Max Planck Institute for Chemical  
Physics of Solids  
Quantum Materials

**Regine Kahmann**  
Max Planck Institute for  
Terrestrial Microbiology  
Fungal Kingdom: Threats  
& Opportunities

**MEMBER OF THE AMERICAN  
ACADEMY OF ARTS AND SCIENCES**

**Vassiliki Kalogera**  
Northwestern University  
Gravity & the Extreme Universe

**Thom McDade**  
Northwestern University  
Child & Brain Development

**MEMBER OF THE COLLEGE OF  
NEW SCHOLARS, ARTISTS AND  
SCIENTISTS (CANADA)**

**Meghan Azad**  
University of Manitoba  
Humans & the Microbiome

**MEMBER OF THE NATIONAL  
ACADEMY OF SCIENCES  
LEOPOLDINA (GERMANY)**

**Joseph Heitman**  
Duke University  
Fungal Kingdom: Threats  
& Opportunities

**MEMBER OF THE NATIONAL  
ACADEMY OF SCIENCES (USA)**

**Joseph Heitman**  
Duke University  
Fungal Kingdom: Threats  
& Opportunities

**Yann LeCun**  
Facebook and New York University  
Learning in Machines & Brains

**Thom McDade**  
Northwestern University  
Child & Brain Development

**SENIOR MEMBER OF THE NATIONAL  
ACADEMY OF INVENTORS**

**Hailing Jin**  
University of California, Riverside  
Fungal Kingdom: Threats  
& Opportunities