GLOBAL COMPUTING ASSOCIATION NAMES 57 FELLOWS FOR OUTSTANDING CONTRIBUTIONS THAT PROPEL TECHNOLOGY TODAY

Luminaries Recognized for Work in Areas Including Cryptography, Graphics, Machine Learning, Software, and Robotics

New York, NY, January 18, 2023 – ACM, the Association for Computing Machinery, has named 57 of its members ACM Fellows for wide-ranging and fundamental contributions in disciplines including cybersecurity, human-computer interaction, mobile computing, and recommender systems among many other areas. The accomplishments of the 2022 ACM Fellows make possible the computing technologies we use every day.

The ACM Fellows program recognizes the top 1% of ACM Members for their outstanding accomplishments in computing and information technology and/or outstanding service to ACM and the larger computing community. Fellows are nominated by their peers, with nominations reviewed by a distinguished selection committee.

“Computing’s most important advances are often the result of a collection of many individual contributions, which build upon and complement each other,” explained ACM President Yannis Ioannidis. “But each individual contribution is an essential link in the chain. The ACM Fellows program is a way to recognize the women and men whose hard work and creativity happens inconspicuously but drives our field. In selecting a new class of ACM Fellows each year, we also hope that learning about these leaders might inspire our wider membership with insights for their own work.”

In keeping with ACM’s global reach, the 2022 Fellows represent universities, corporations, and research centers in Canada, Chile, China, France, Germany, Israel, the Netherlands, Spain, Switzerland, and the United States.

Additional information about the 2022 ACM Fellows, as well as previously named ACM Fellows, is available through the ACM Fellows website.
2022 ACM Fellows

Maneesh Agrawala
Stanford University
For contributions to visual communication through computer graphics, human-computer interaction, and information visualization

Anima Anandkumar
California Institute of Technology
For contributions to tensor methods for probabilistic models and neural operators

David Atienza Alonso
EPFL
For contributions to the design of high-performance integrated systems and ultra-low power edge circuits and architectures

Boaz Barak
Harvard University
For contributions to theoretical computer science, in particular cryptography and computational complexity, and service to the theory community

Michel Beaudouin-Lafon
Université Paris-Saclay
For contributions to human-computer interaction, instrumental interaction and generative theory, and community leadership

Peter Boncz
Centrum Wiskunde & Informatica (CWI), Vrije Universiteit Amsterdam
For contributions to the design of columnar, main-memory, and vectorized database systems

Luis H. Ceze
University of Washington
For contributions to developing new architectures and programming systems for emerging applications and computing technologies

Ranveer Chandra
Microsoft
For contributions to software-defined wireless networking and applications to agriculture and rural broadband

Nitesh Chawla
University of Notre Dame
For contributions to machine learning research for imbalanced data, graphs, and interdisciplinary innovations

Ed H. Chi
Google
For contributions to machine learning and data mining techniques for social computing and recommender systems

Corinna Cortes
Google
For theoretical and practical contributions to machine learning, industrial leadership, and service to the field

Bill Curtis
CAST Software/ Consortium for Information and Software Quality (CISQ)
For contributions to software process, software measurement, and human factors in software engineering

Constantinos Daskalakis
Massachusetts Institute of Technology
For fundamental contributions to algorithmic game theory, mechanism design, sublinear algorithms, and theoretical machine learning

Kalyanmoy Deb
Michigan State University
For technical contributions in evolutionary multi-objective optimization algorithms and multi-criterion decision support

Bronis R. de Supinski
Lawrence Livermore National Laboratory
For contributions to the design of large-scale systems and their programming systems and software

Sebastian Elbaum
University of Virginia
For contributions to the analysis and testing of evolving systems and robotic systems
Yuguang "Michael" Fang
City University of Hong Kong
For contributions to wireless networks and mobile computing

Kevin Fu
Northeastern University
For contributions to computer security, and especially to the secure engineering of medical devices

Craig Gotsman
New Jersey Institute of Technology
For contributions to computer graphics, geometry processing, and visual computing

Ahmed E. Hassan
Queen's University
For contributions to the quality assurance of large-scale software systems

Abdelsalam (Sumi) Helal
University of Florida
For contributions to mobile and pervasive computing, and their applications in graceful aging and accessibility

Jörg Henkel
Karlsruhe Institute of Technology
For contributions to hardware/software co-design of power and thermal efficient embedded computing

Manuel V. Hermenegildo
Universidad Politecnica de Madrid & IMDEA SW Institute
For contributions to program analysis, verification, parallelism, logic programming, and the IMDEA Software Institute

Michael Hicks
University of Maryland, Amazon Web Services
For contributions to programming language design and implementation, program analysis, and software security

Torsten Hoefler
ETH Zurich
For foundational contributions to High-Performance Computing and the application of HPC techniques to machine learning

Jason Hong
Carnegie Mellon University
For contributions to ubiquitous computing and to usable privacy and security

Sandy Irani
University of California, Irvine
For contributions to the theory of online algorithms and quantum complexity theory

Hiroshi Ishii
MIT Media Lab
For contributions to tangible user interfaces and to human-computer interaction

Alfons Kemper
Technical University of Munich
For contributions to database management system technology

Samir Khuller
Northwestern University
For contributions to algorithm design with real-world implications and for mentoring and community-building

Farinaz Koushanfar
University of California, San Diego
For contributions to secure computing and privacy-preserving machine learning

C.-C. Jay Kuo
University of Southern California
For contributions to technologies, applications, and mentorship in visual computing

Hang Li
Bytedance
For contributions to machine learning for search and dialogue

Jimmy Lin
University of Waterloo
Radu Marculescu
The University of Texas at Austin
For contributions to question answering, information retrieval, and natural language processing

Hong Mei
Peking University
For contributions to low-power and communication-based design of embedded systems

David M. Mount
University of Maryland at College Park
For contributions to algorithms and data structures for geometric data analysis and retrieval

Gonzalo Navarro
University of Chile
For theoretical and practical contributions to the fields of text searching and compact data structures

Rafael Pass
Cornell University, Tel-Aviv University
For contributions to the foundations of cryptography

Marc Pollefeys
ETH Zurich, Microsoft
For contributions to geometric computer vision and applications to AR/VR/MR, robotics, and autonomous vehicles

Alex Pothen
Purdue University
For contributions to and leadership in combinatorial scientific computing

Moinuddin Qureshi
Georgia Institute of Technology
For contributions to memory hierarchy design

Ashutosh Sabharwal
Rice University
For the invention of full-duplex wireless and open-source wireless research platforms

Timothy Sherwood
University of California, Santa Barbara
For contributions to computer system security and performance analysis

Stefano Soatto
University of California, Los Angeles
For contributions to the foundations and applications of visual geometry and visual representations learning

John T. Stasko
Georgia Institute of Technology
For contributions to the design, analysis, usage, and evaluation of software and information visualization

Zhendong Su
ETH Zurich
For contributions to software testing and analysis

Gary J. Sullivan
Microsoft
For contributions to video and image compression and leadership in its standardization

Jamie Teevan
Microsoft
For contributions to human-computer interaction, information retrieval, and productivity

Kentaro Toyama
University of Michigan
For contributions to the innovation and critique of digital technology for socio-economic development and social justice

Rene Vidal
Johns Hopkins University

Eric Xing
Carnegie Mellon University, Mohamed bin Zayed University of Artificial Intelligence
For contributions to subspace clustering and motion
segmentation in computer vision

Dong Yu
Tencent
For contributions in speech processing and
deep learning applications

Yizhou Yu
University of Hong Kong
For contributions to computer graphics and
computer vision

Haitao (Heather) Zheng
The University of Chicago
For contributions to wireless networking and mobile
computing

Wenwu Zhu
Tsinghua University
For contributions to multimedia networking
and network representation

Denis Zorin
New York University
For contributions to computer graphics, geometry
processing, and scientific computing

About ACM
ACM, the Association for Computing Machinery, is the world’s largest educational and scientific computing society, uniting computing educators, researchers, and professionals to inspire dialogue, share resources, and address the field’s challenges. ACM strengthens the computing profession’s collective voice through strong leadership, promotion of the highest standards, and recognition of technical excellence. ACM supports the professional growth of its members by providing opportunities for life-long learning, career development, and professional networking.

About the ACM Recognition Program
The ACM Fellows program, initiated in 1993, celebrates the exceptional contributions of the leading members in the computing field. To be selected as an ACM Fellow, a candidate’s accomplishments are expected to place him or her among the top 1% of ACM members. These individuals have helped to enlighten researchers, developers, practitioners, and end users of information technology throughout the world. The ACM Distinguished Member program, initiated in 2006, recognizes those members with at least 15 years of professional experience who have made significant accomplishments or achieved a significant impact on the computing field. ACM Distinguished Membership recognizes up to 10% of ACM’s top members. The ACM Senior Member program, also initiated in 2006, includes members with at least 10 years of professional experience who have demonstrated performance that sets them apart from their peers through technical leadership, technical contributions, and professional contributions. ACM Senior Member status recognizes the top 25% of ACM Professional Members. The new ACM Fellows, Distinguished Members, and Senior Members join a list of eminent colleagues to whom ACM and its members look for guidance and leadership in computing and information technology.

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