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NEWS RELEASE

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2023 ACM FELLOWS CELEBRATED FOR CONTRIBUTIONS TO COMPUTING THAT UNDERPIN OUR DAILY LIVES

Members of Global Society Hailed for Work Including Advances to AI Technologies, the World Wide Web, Graphics, Cybersecurity, Mobile Computing, and Software

New York, NY, January 24, 2024 – ACM, the Association for Computing Machinery, has named [68 Fellows](#) for transformative contributions to computing science and technology. All the 2023 inductees are longstanding ACM Members who were selected by their peers for groundbreaking innovations that have improved how we live, work, and play.

"The announcement each year that a new class of ACM Fellows has been selected is met with great excitement," said ACM President Yannis Ioannidis. "ACM is proud to include nearly 110,000 computing professionals in our ranks and ACM Fellows represent just 1% of our entire global membership. This year's inductees include the inventor of the World Wide Web, the 'godfathers of AI,' and other colleagues whose contributions have all been important building blocks in forming the digital society that shapes our modern world."

In keeping with ACM's global reach, the 2023 Fellows represent universities, corporations, and research centers in Canada, China, Germany, India, Israel, Norway, Singapore, the United Kingdom, and the United States. The contributions of the 2023 Fellows run the gamut of the computing field—including algorithm design, computer graphics, cybersecurity, energy-efficient computing, mobile computing, software analytics, and web search, to name a few.

Additional information about the 2023 ACM Fellows, as well as previously named ACM Fellows, is available through the [ACM Fellows website](#).

<u>2023 ACM FELLOWS</u>

Aditya Akella *University of Texas*	For contributions that improve the performance, efficiency, and robustness of cluster computing

Michael Backes
CISPA

For contributions to information security and privacy

Vineet Bafna
University of California, San Diego

For contributions to the theory, design, and implementation of bioinformatics algorithms

Yoshua Bengio
Mila, Université de Montréal

For conceptual and engineering breakthroughs that have made deep neural networks a critical component of computing

Maria-Florina Balcan

Carnegie Mellon University

For contributions to the foundations of machine learning and its applications to algorithmic economics and algorithm design

Nikhil Bansal
University of Michigan

For contributions to the foundations of approximate and online algorithms, and their connections to mathematics

Mikhail Belkin
University of California San Diego

For contributions to modern machine learning theory and algorithms

Shai Ben-David
University of Waterloo

For contributions to and research leadership in machine learning theory

Vaughn Timothy Betz
University of Toronto

For contributions to the architecture and computer-aided design of field-programmable gate arrays (FPGAs)

Ramon Caceres
Google

For contributions to mobile and edge computing

Chandra Chekuri
University of Illinois, Urbana-Champaign

For contributions to approximation algorithms and submodular optimization

Haibo Chen
Shanghai Jiao Tong University

For contributions to improving the scalability and security of operating systems and distributed systems

Yingying (Jennifer) Chen
Rutgers University

For contributions to the design and application of mobile sensing and mobile security systems

Kenneth Ward Church
EAI, Northeastern University

For contributions to empirical methods in natural language processing

Roger B. Dannenberg
Carnegie Mellon University

For contributions to the field of computer science through innovative computer music systems

Xin Luna Dong
Meta

For contributions to knowledge graph construction and data integration

Rolf Drechsler
University of Bremen

For contributions to foundations and applications of formal proof techniques in synthesis, test, and verification

Wenliang Du
Syracuse University

For contributions to cybersecurity education and research

Pradeep Dubey
Intel Corporation

For contributions to emerging compute- and data-intensive applications and parallel processing computer architectures

Anja Feldmann
Max Planck Institute and TU Berlin

For contributions to the data-driven analysis of operational networks

George Fitzmaurice
Autodesk Canada, Inc.

For contributions to human-computer interaction and tangible user interfaces

Fedor Fomin
University of Bergen

For contributions to the development of parameterized complexity and exact exponential algorithms

Jeffrey S. Foster
Tufts University

For contributions to program analysis and techniques to build more reliable and secure software

Jianfeng Gao
Microsoft

For contributions to machine learning for web search, natural language processing, and conversational systems

Ian Goldberg
University of Waterloo

For contributions to the development and deployment of privacy enhancing technologies

Sumit Gulwani
Microsoft

For contributions to AI-assisted programming for developers, data scientists, end users, and students

Zhu Han
University of Houston

For contributions to distributed and autonomous management for large-scale communication networks

Geoffrey Hinton
University of Toronto

For conceptual and engineering breakthroughs that have made deep neural networks a critical component of computing

Nicole Immorlica
Microsoft Research

For contributions to economics and computation including market design, auctions, and social networks

Trent Jaeger
Pennsylvania State University

For contributions to research and education for operating systems and software security

Kenneth Richard Koedinger
Carnegie Mellon University

For the advancement of AI models of human learning and developing intelligent tutors to aid students

Andreas Krause
ETH Zurich

For contributions to learning-based decision making under uncertainty

Christopher Ian Kruegel
University of California Santa Barbara

For contributions to systems security, malware detection, and vulnerability analysis

H.T. Kung
Harvard University

For contributions to computer architecture and concurrency control for parallel computation

Yann LeCun
New York University

For conceptual and engineering breakthroughs that have made deep neural networks a critical component of computing

Tim Berners-Lee
WWW Consortium

For inventing the World Wide Web, the first web browser, and the fundamental protocols and algorithms allowing the Web to scale

David Lo
Singapore Management University

For contributions to synergizing artificial intelligence and software engineering for human-in-the-loop automation and software analytics

Wenjing Lou
Virginia Tech

For contributions to information and network security

Kwan-Liu Ma
University of California, Davis

For contributions to and leadership in large-scale data visualization research

Wei-Ying Ma
Tsinghua University

For leadership and contributions to web search and data mining

Z. Morley Mao *University of Michigan*	For contributions to Internet security and performance
Deborah McGuinness *Rensselaer Polytechnic Institute*	For contributions to knowledge technologies including ontologies and knowledge graphs
Gerard G. Medioni *Amazon*	For contributions to computer vision and its consumer facing applications
Sharad Mehrotra *University of California, Irvine*	For contributions to the fields of data management, multimedia information retrieval, and emergency response
Seffi Naor *Technion—Israel Institute of Technology*	For contributions to online, randomized, and approximation algorithms
Shrikanth Narayanan *University of Southern California*	For contributions to speech, language, multimedia processing, affective computing, and their human-centered applications
Natasha Noy *Google Research*	For contributions to open data, data discovery, and Semantic Web
Corina S. Pasareanu *NASA Ames and Carnegie Mellon University*	For contributions to the development and application of symbolic execution and compositional verification
Massoud Pedram *University of Southern California*	For contributions to low power design of VLSI circuits and to energy efficient computing
Anand Raghunathan *Purdue University*	For contributions to the design of energy-efficient computing systems
Benjamin Raphael *Princeton University*	For contributions to computational biology including algorithms in cancer genomics/evolution and biological network analysis
Dana Ron *Tel Aviv University*	For contributions to sub-linear time approximation algorithms
Tim Roughgarden *Columbia University*	For contributions to algorithmic game theory
David Sankoff *University of Ottawa*	For contributions to research and leadership in computational biology and bioinformatics
Stefan Saroiu *Microsoft*	For contributions to memory security and trusted computing

Albrecht Schmidt
Ludwig Maximilian University of Munich

For contributions to human-computer interaction, ubiquitous computing and implicit interaction, and leadership in ACM SIGCHI

Björn W. Schuller
Imperial College London, Technical University of Munich

For empirical and theoretical contributions to the development of computer audition, affective computing, and health informatics

Phoebe Sengers
Cornell University

For contributions to critically-informed human-computer interaction and design.

Elaine Shi
Carnegie Mellon University

For contributions to the scientific foundation of oblivious computation and decentralized blockchains

Noah Snavely
Cornell Tech, Google

For contributions to computer vision and computer graphics

Ram D. Sriram
NIST

For contributions in building innovative computational tools and automation techniques in engineering and health care

Steffen Staab
University of Stuttgart, University of Southampton

For contributions to semantic technologies and web science, and distinguished service to the ACM community

Alexander Szalay
The Johns Hopkins University

For contributions in systems, big data, open data, and for service to the community

Manik Varma
Microsoft Research India

For contributions to machine learning and its applications

XiaoFeng Wang
Indiana University at Bloomington

For contributions to systems security and privacy

Kilian Weinberger
Cornell University

For contribution to machine learning and deep learning research

Emmett Witchel
The University of Texas at Austin

For contributions to high-performance, concurrent, and secure systems

Xing Xie
Microsoft Research Asia

For contributions to spatial data mining and recommendation systems

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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