Columbia University
The Fu Foundation School of Engineering and Applied Science

TWO THOUSAND TWELVE

Celebrating Faculty Excellence

ACCLAIMING THE AWARDS, HONORS, AND RECOGNITIONS THAT OUR FACULTY RECEIVED DURING THE PAST YEAR
Please join us in honoring the faculty highlighted within these pages for the recognitions they have received during the past academic year. We are proud to acknowledge faculty elections to the National Academy of Engineering, the Royal Society of Canada, and to numerous other professional societies, as well as recognitions that include a MacArthur Foundation Fellowship, Early Career Development Awards, and many other significant honors and prizes. In addition, we honor the holders of five new endowed chairs and are grateful to the donors who have made these chairs possible.

As we approach the 150th anniversary of the founding of our School in 1864, we are mindful of the many significant contributions our faculty has made over the decades. Generation after generation, our faculty members have passed along to our students both the knowledge and spirit of inquiry that have made them exceptional leaders in both scholarship and research in their respective fields.

In turn, our students are now becoming the engineering and applied science leaders of their generation, spurred on by our faculty’s example, to tackle some of the most challenging problems of today in order to make the life of future generations better.

Donald Goldfarb
Interim Dean and
Alexander and Hermine Avanessians Professor
of Industrial Engineering and Operations Research
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Donald Goldfarb
Interim Dean and
Alexander and Hermine Avanessians Professor
of Industrial Engineering and Operations Research
Gordana Vunjak-Novakovic

The Mikati Foundation Professor of Biomedical Engineering

National Academy of Engineering elected a member of the National Academy of Engineering for her novel bioreactor systems and modeling approaches for tissue engineering and regenerative medicine.
Gordana Vunjak-Novakovic
The Mikati Foundation Professor of Biomedical Engineering

National Academy of Engineering elected a member of the National Academy of Engineering for her novel bioreactor systems and modeling approaches for tissue engineering and regenerative medicine.
Named Professors

**JINGGUANG G. CHEN**
*Thayer Lindsley Professor of Engineering*
*Chemical Engineering*

**MARIA Q. FENG**
*Renwick Professor of Civil Engineering*
*Civil Engineering and Engineering Mechanics*

**GUILLERMO M. GALLEGO**
*Liu Family Professor of Industrial Engineering and Operations Research*
*Industrial Engineering and Operations Research*

**FENIOSKY PEÑA-MORA**
*Edwin Howard Armstrong Professor of Civil Engineering and Engineering Mechanics*
*Civil Engineering and Engineering Mechanics*

**VENKAT VENKATASUBRAMANIAN**
*Samuel Ruben–Peter G. Viele Professor of Engineering*
*Chemical Engineering*

Singular Honors

**VLADIMIR VAPNIK**
*Professor, Computer Science*
*2012 Benjamin Franklin Medal in Computer and Cognitive Science*
*given by The Franklin Institute for his fundamental contributions to the understanding of machine learning, which allows computers to classify new data based on statistical models derived from earlier examples, and for his invention of widely used machine learning techniques and Frank Rosenblatt Award given by the Institute of Electrical and Electronics Engineers (IEEE) for his pioneering work that became the foundation of a new research field known as “statistical learning theory”*

**PONISSERIL SOMASUNDARAN**
*LaVon Duddleson Krumbl Professor of Mineral Engineering*
*Royal Society of Canada*
*elected a Foreign Fellow of the Royal Society of Canada, the highest honor a scholar can achieve in the arts, humanities, and sciences in Canada*
Named Professors

JINGGUANG G. CHEN
Thayer Lindsley Professor of Engineering
CHEMICAL ENGINEERING

MARIA Q. FENG
Renwick Professor of Civil Engineering
CIVIL ENGINEERING AND ENGINEERING MECHANICS

GUILLERMO M. GALLEGO
Liu Family Professor of Industrial Engineering and Operations Research
INDUSTRIAL ENGINEERING AND OPERATIONS RESEARCH

FENIOSKY PEÑA-MORA
Edwin Howard Armstrong Professor of Civil Engineering and Engineering Mechanics
CIVIL ENGINEERING AND ENGINEERING MECHANICS

VENKAT VENKATASUBRAMANIAN
Samuel Ruben–Peter G. Viele Professor of Engineering
CHEMICAL ENGINEERING

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VLADIMIR VAPNIK
Professor, Computer Science

2012 BENJAMIN FRANKLIN MEDAL IN COMPUTER AND COGNITIVE SCIENCE
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LaVon Duddleson Krumb Professor of Mineral Engineering
ROYAL SOCIETY OF CANADA
elected a Foreign Fellow of the Royal Society of Canada, the highest honor a scholar can achieve in the arts, humanities, and sciences in Canada
Faculty Early Career Development Awards

LUCA CARLONI
Associate Professor, Computer Science

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) COUNCIL ON ELECTRONIC DESIGN AUTOMATION (CEDA) EARLY CAREER AWARD
to support his research to develop a new communication-based design methodology for distributed embedded systems

CHRIS A. MARIANETTI
Assistant Professor, Applied Physics and Applied Mathematics

NSF FACULTY EARLY CAREER DEVELOPMENT AWARD
to support his research on using quantum mechanical simulations to engineer thin film materials via strain

HAIM WAISMAN
Assistant Professor, Civil Engineering and Engineering Mechanics

DEPARTMENT OF ENERGY EARLY CAREER RESEARCH AWARD
to support his research on developing reliable computational methods for predicting the mechanics of materials subjected to impact or blast loads

XII CHEN
Assistant Professor, Computer Science

NSF FACULTY EARLY CAREER DEVELOPMENT AWARD
to support his research on algorithmic game theory and economics and complexity theory

DIRK R. ENGLUND
Assistant Professor, Electrical Engineering

DARPA YOUNG FACULTY AWARD
to support his research on chip-integrated timing and inertial measurements

JUNFENG YANG
Assistant Professor, Computer Science

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH YOUNG INVESTIGATOR RESEARCH PROGRAM AWARD
to support his research on concurrency attacks and defenses
Columbia Engineering Faculty Excellence Celebration

**Faculty Early Career Development Awards**

**LUCA CARLONI**  
Associate Professor, Computer Science  
**INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)  
COUNCIL ON ELECTRONIC DESIGN AUTOMATION (CEDA) EARLY CAREER AWARD**  
to support his research to develop a new communication-based design methodology for distributed embedded systems

**HAIM WAISMAN**  
Assistant Professor, Civil Engineering and Engineering Mechanics  
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Assistant Professor, Computer Science  
**AIR FORCE OFFICE OF SCIENTIFIC RESEARCH YOUNG INVESTIGATOR RESEARCH PROGRAM AWARD**  
to support his research on concurrency attacks and defenses
Recognition/Achievement Awards

**Peter N. Belhumeur**  
**Assistant Professor, Computer Science**  
**Edwin O. Wilson Biodiversity Technology Pioneer Award**  
given by the American Computer Museum for co-creating LeafSnap, an electronic field guide for iPhones and iPads that identifies trees

**Shihi-Fu Chang**  
**Richard Dicker Professor of Telecommunications, Electrical Engineering; Professor of Computer Science; and Senior Vice Dean**  
**Institute of Electrical and Electronics Engineers (IEEE) Signal Processing Society Meritorious Service Award**  
for extraordinary service contributions and outstanding leadership of the IEEE Signal Processing Magazine

**Xi Chen**  
**Associate Professor, Earth and Environmental Engineering**  
**Thomas J.R. Hughes Young Investigator Award**  
given by the American Society of Mechanical Engineers (ASME) for special achievement by young investigators in the field of applied mechanics

**Roxana Geambasu**  
**Assistant Professor, Computer Science**  
**William Chen Dissertation Award**  
given by the University of Washington for her dissertation, “Regaining Control over Cloud and Mobile Data”

**Dirk R. Englund**  
**Assistant Professor, Electrical Engineering**  
**IBM Faculty Award**  
given to junior faculty at leading universities worldwide who show unusual promise to foster collaboration with IBM researchers

**Guillermo M. Gallego**  
**Liu Family Professor of Industrial Engineering and Operations Research**  
**2011 INFORMS Revenue Management and Pricing Prize**  
co-winner with Garret van Ryzin for his work on two papers: “Optimal Dynamic Pricing of Inventories with Stochastic Demand over Finite Horizons” and “A Multiproduct Dynamic Pricing Problem and Its Applications to Network Yield Management”
Recognition/Achievement Awards

**PETER N. BELHUMEUR**

*Professor, Computer Science*

**EDWIN O. WILSON BIODIVERSITY TECHNOLOGY PIONEER AWARD**
given by the American Computer Museum for co-creating LeafSnap, an electronic field guide for iPhones and iPads that identifies trees

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**SHIH-FU CHANG**

*Richard Dicker Professor of Telecommunications, Electrical Engineering; Professor of Computer Science; and Senior Vice Dean*

**INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) SIGNAL PROCESSING SOCIETY MERITORIOUS SERVICE AWARD**
for extraordinary service contributions and outstanding leadership of the IEEE Signal Processing Magazine

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**XI CHEN**

*Associate Professor, Earth and Environmental Engineering*

**THOMAS J.R. HUGHES YOUNG INVESTIGATOR AWARD**
given by the American Society of Mechanical Engineers (ASME) for special achievement by young investigators in the field of applied mechanics

*Young Investigator Medal, Society of Engineering Science* (2011)
for a young researcher within 10 years of Ph.D. whose work already has had an impact in his/her field within Engineering Science and

*Best Outstanding Achievement Award, Hanyang University, Korea*

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**DIRK R. ENGLUND**

*Assistant Professor, Electrical Engineering*

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**GUILLERMO M. GALLEGRO**

*Liu Family Professor of Industrial Engineering and Operations Research*

**INDUSTRIAL ENGINEERING AND OPERATIONS RESEARCH 2011 INFORMS REVENUE MANAGEMENT AND PRICING PRIZE**
co-winner with Garret van Ryzin for his work on two papers: "Optimal Dynamic Pricing of Inventories with Stochastic Demand over Finite Horizons" and "A Multiproduct Dynamic Pricing Problem and Its Applications to Network Yield Management"

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**ROXANA GEAMBASU**

*Assistant Professor, Computer Science*

**WILLIAM CHEN DISSERTATION AWARD**
given by the University of Washington for her dissertation, “Regaining Control over Cloud and Mobile Data”
Recognition/Achievement Awards

**Tony Jebara**
Associate Professor, Computer Science

**Yahoo Faculty Research Engagement Program**
for his research on computational advertising, machine learning, and search and web mining

**Henning G. Schulzrinne**
Julian Clarence Levi Professor, Computer Science

**OAA Award for Outstanding Achievement in Research**
given by the University of Massachusetts Computer Science Department to distinguished alumni

**Jason Nieh**
Associate Professor, Computer Science

**IBM Faculty Award**
given to outstanding researchers at leading universities worldwide to foster collaboration with those in IBM research

**Francesco A. Volpe**
Assistant Professor, Applied Physics and Applied Mathematics

**2012 Torkil Jensen Award**
given by General Atomics Fusion Energy Research to support his research on cancer therapy with fusion neutrons, an experimental topic outside the areas usually covered by the DIII-D experimental program

**Feniosky Peña-Mora**
Edwin Howard Armstrong Professor of Civil Engineering and Engineering Mechanics, Civil Engineering and Engineering Mechanics

**Pioneer Award in Education**
given by Great Minds in STEM™ at the Hispanic Engineer National Achievement Awards Conference (HENAAC) to recognize the achievements of the best and brightest engineers and scientists within the Hispanic community

**Ward Whitt**
Wai T. Chang Professor of Industrial Engineering and Operations Research, Industrial Engineering and Operations Research

**2011 INFORMS Expository Writing Award**
given at the INFORMS National Meeting to an operations researcher/management scientist whose publications demonstrate a consistently high standard of expository writing
Recognition/Achievement Awards

**Tony Jebara**

*Associate Professor, Computer Science*

**Yahoo Faculty Research Engagement Program**

for his research on computational advertising, machine learning, and search and web mining

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Election to Professional Societies

MICHAEL J. COLLINS
Vikram S. Pandit Professor, Computer Science
FOUNDED FELLOW, ASSOCIATION FOR COMPUTATIONAL LINGUISTICS
for his significant contributions to natural language parsing and discriminative training

DONALD GOLDFARB
Alexander and Hermine Avanesians Professor of Industrial Engineering and Operations Research and Interim Dean
FELLOW, SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS (SIAM)
for his contributions to nonlinear, discrete, and convex optimization

VIVIAN FAYE McNEILL
Associate Professor, Chemical Engineering
ELECTED TO BOARD OF DIRECTORS, AMERICAN ASSOCIATION FOR AEROSOL RESEARCH

ANDREW LAINE
Percy K. and Vida L. W. Hudson Professor of Biomedical Engineering, Biomedical Engineering, and Professor of Radiology, Physics
ELECTED CHAIR, COUNCIL OF SOCIETIES, AMERICAN INSTITUTE FOR MEDICAL AND BIOLOGICAL ENGINEERING (AIMBE)

KATHLEEN R. McKEOWN
Henry and Gertrude Rothschild Professor, Computer Science
FOUNDED FELLOW, ASSOCIATION FOR COMPUTATIONAL LINGUISTICS
for her significant contributions to natural language generation and multi-document summarization

AH-HYUNG ALISSA PARK
Lenfest Junior Professor in Applied Climate Science, Earth and Environmental Engineering
ELECTED CHAIR OF THE AREA 3 GROUP B—FLUIDIZATION AND FLUID-PARTICLE SYSTEMS, PARTICLE TECHNOLOGY FORUM, AMERICAN INSTITUTE OF CHEMICAL ENGINEERS (AIChE)

PAUL SAJDA
Professor, Biomedical Engineering, and Radiology, Physics
ELECTED FELLOW, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)
for development of brain-machine interfaces for image and media search

Julia B. Hirschberg
Professor, Computer Science
FOUNDED FELLOW, ASSOCIATION FOR COMPUTATIONAL LINGUISTICS
for her significant contributions to intonation, discourse, text-to-speech systems, and labeling standards for speech corpora

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Michael J. Collins
Vikram S. Pandit Professor, Computer Science
FOUNDED FELLOW, ASSOCIATION FOR COMPUTATIONAL LINGUISTICS
for his significant contributions to natural language parsing and discriminative training
Election to Professional Societies

**Michael J. Collins**
*Vikram S. Pandit Professor, Computer Science*
*Founding Fellow, Association for Computational Linguistics*
for his significant contributions to natural language parsing and discriminative training

**Kathleen R. McKeown**
*Henry and Gertrude Rothschild Professor, Computer Science*
*Founding Fellow, Association for Computational Linguistics*
for her significant contributions to natural language generation and multi-document summarization

**Donald Goldfarb**
*Alexander and Hermine Avanesians Professor of Industrial Engineering and Operations Research and Interim Dean*
*Fellow, Society for Industrial and Applied Mathematics (SIAM)*
for his contributions to nonlinear, discrete, and convex optimization

**Vivian Faye McNeill**
*Associate Professor, Chemical Engineering*
*Elected to Board of Directors, American Association for Aerosol Research*

**Julia B. Hirschberg**
*Professor, Computer Science*
*Founding Fellow, Association for Computational Linguistics*
for her significant contributions to intonation, discourse, text-to-speech systems, and labeling standards for speech corpora

**Ah-Hyung Alissa Park**
*Lenfest Junior Professor in Applied Climate Science, Earth and Environmental Engineering*
*Elected Chair of the Area 3 Group B—Fluidization and Fluid-Particle Systems, Particle Technology Forum, American Institute of Chemical Engineers (AIChE)*

**Andrew Laine**
*Percy K. and Vida L. W. Hudson Professor of Biomedical Engineering, Biomedical Engineering, and Professor of Radiology, Physics*
*Elected Chair, Council of Societies, American Institute for Medical and Biological Engineering (AIMBE)*

**Paul Sajda**
*Professor, Biomedical Engineering, and Radiology, Physics*
*Elected Fellow, Institute of Electrical and Electronics Engineers (IEEE)*
for development of brain-machine interfaces for image and media search
**Notable Fellowships**

**Xi Chen**
*Assistant Professor, Computer Science*

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*Assistant Professor, Computer Science*

**Peter Schlosser**
*Vinton Professor, Earth and Environmental Engineering*

**Andrew W. Smyth**
*Professor, Civil Engineering and Engineering Mechanics*

**Venkat Venkatasubramanian**
*Samuel Ruben–Peter G. Viele Professor of Engineering, Chemical Engineering*

**Gordana Vunjak-Novakovic**
*The Mikati Foundation Professor, Biomedical Engineering*

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**Xi Chen**
*Assistant Professor, Computer Science*

*Alfred P. Sloan Research Fellowship*

in recognition of and to support his work in algorithmic game theory and complexity theory

**Xi Chen**
*Associate Professor, Earth and Environmental Engineering*

*Japan Society for the Promotion of Science Fellowship*

and

*Distinguished Collaborator Fellowship, Murdoch University, Australia*

---

**Peter Schlosser**
*Vinton Professor, Earth and Environmental Engineering*

*The Explorers Club, Vinton Professor, Earth and Environmental Engineering*

the international multidisciplinary professional society that promotes the scientific exploration of land, sea, air, and space by supporting research and education in the physical, natural, and biological sciences

**Andrew W. Smyth**
*Professor, Civil Engineering and Engineering Mechanics*

*Member, Board of Governors, Engineering Mechanics Institute (EMI),*  
a new institute of the American Society of Civil Engineers (ASCE) dedicated to serving the engineering community through the development and application of engineering mechanics

**Venkat Venkatasubramanian**
*Samuel Ruben–Peter G. Viele Professor of Engineering, Chemical Engineering*

*Fellow, American Institute of Chemical Engineers (AIChE)*

**Gordana Vunjak-Novakovic**
*The Mikati Foundation Professor, Biomedical Engineering*

*Fellow, Biomedical Engineering Society*

Member, Continental Chapter Council, Tissue Engineering and Regenerative Medicine International Society
**Election to Professional Societies**

**Peter Schlosser**  
*Vinton Professor, Earth and Environmental Engineering*  
*Fellow, The Explorers Club,*  
the international multidisciplinary professional society that promotes the scientific exploration of land, sea, air, and space by supporting research and education in the physical, natural, and biological sciences.

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**Xi Chen**  
*Assistant Professor, Computer Science*  
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in recognition of and to support his work in algorithmic game theory and complexity theory.

**Junfeng Yang**  
*Assistant Professor, Computer Science*  
*Alfred P. Sloan Research Fellowship*  
in recognition of and to support his research on frontiers in software systems.

**Xi Chen**  
*Associate Professor, Earth and Environmental Engineering*  
*Japan Society for the Promotion of Science Fellowship*  
*and*  
*Distinguished Collaborator Fellowship, Murdoch University, Australia*
Notable Professional Recognitions

**ALFRED V. AHO**
*Lawrence Gussman Professor, Computer Science*
*Chair, Computer Science and Engineering Section, National Academy of Engineering*

**STEVEN M. BELLOVIN**
*Professor, Computer Science*
*Chief Technologist, Federal Trade Commission*

**SIMON J.L. BILLINGE**
*Professor of Materials Science and of Applied Physics and Applied Mathematics, Applied Physics and Applied Mathematics*
*Co-Editor of the journal *Acta Crystallographica Section A: Foundations of Crystallography*

**LUCA CARLONI**
*Associate Professor, Computer Science*
*Selectee, National Academies 2011 U.S. Frontiers of Engineering Conference*

**XI CHEN**
*Associate Professor, Earth and Environmental Engineering*
*Selectee, National Academies 2012 U.S. Frontiers of Engineering Conference*

**ELIZABETH M.C. HILLMAN**
*Associate Professor, Biomedical Engineering*
*Selectee, National Academies 2012 U.S. Frontiers of Engineering Conference*

**ELISA F. KONOFAKOU**
*Associate Professor, Biomedical Engineering*
*Member, Board of Governors, American Institute of Ultrasound in Medicine*

**HELEN H. LU**
*Associate Professor, Biomedical Engineering*
*Speaker, National Academies 2012 U.S. Frontiers of Engineering Conference*
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Lawrence Gussman Professor, Computer Science
Chair, Computer Science and Engineering Section, National Academy of Engineering

STEVEN M. BELLOVIN
Professor, Computer Science
Chief Technologist, Federal Trade Commission

SIMON J.L. BILLINGE
Professor of Materials Science and of Applied Physics and Applied Mathematics, Applied Physics and Applied Mathematics
Co-editor of the journal Acta Crystallographica Section A: Foundations of Crystallography

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Associate Professor, Computer Science
Selectee, National Academies 2011 U.S. Frontiers of Engineering Conference
recognizing young engineers from industry, academia, and government who are performing exceptional engineering research and technical work

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Associate Professor, Biomedical Engineering
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Notable Professional Recognitions

Van C. Mow
Stanley Dicker Professor, Biomedical Engineering
Distinguished Visiting Professor
University of California, San Diego
University of Hong Kong
Adviser for Biomedical Engineering, Hong Kong University of Science and Technology
Distinguished Overseas Chinese Scholars’ Lecture, Shanghai Jiao Tong University Medical School

Yannis Tsividis
Charles Batchelor Professor, Electrical Engineering
Honorary Degree, Professor Honoris Causa, University of Patras, Greece

Samuel K. Sia
Associate Professor, Biomedical Engineering
Member, External Advisory Board, Center for Emerging and Neglected Diseases, University of California, Berkeley

Y. Lawrence Yao
Professor, Mechanical Engineering
Editor, Journal of Manufacturing Science and Engineering, American Society of Mechanical Engineers (ASME)

Andrew W. Smyth
Professor, Civil Engineering and Engineering Mechanics
Invitée, NAE Japan-America Frontiers of Engineering Symposium bringing together a select group of emerging engineering leaders from industry, academia, and government labs to discuss pioneering technical work and leading-edge research in various engineering fields and industry sectors

Gil Zussman
Assistant Professor, Electrical Engineering
Invitée, NAE Frontiers of Engineering Education (FOEE) Symposium for some of the nation’s most engaged and innovative engineering educators, to recognize, reward, and promote effective engineering education through a dialogue within the emerging generation of innovative faculty

Ponisseril Somasundaran
La Von Duddleson Krumb Professor of Mineral Engineering, Earth and Environmental Engineering
Member, Editorial Board of the International Journal of Biosciences and Technology and its associated journals
Notable Professional Recognitions

Van C. Mow

Stanley Dicker Professor, Biomedical Engineering

Distinguished Visiting Professor
University of California, San Diego
University of Hong Kong

Adviser for Biomedical Engineering, Hong Kong University of Science and Technology

Distinguished Overseas Chinese Scholars’ Lecture, Shanghai Jiao Tong University Medical School

Samuel K. Sia

Associate Professor, Biomedical Engineering

Member, External Advisory Board, Center for Emerging and Neglected Diseases, University of California, Berkeley

Andrew W. Smyth

Professor, Civil Engineering and Engineering Mechanics

Invitee, NAE Japan-America Frontiers of Engineering Symposium

brings together a select group of emerging engineering leaders from industry, academe, and government labs to discuss pioneering technical work and leading-edge research in various engineering fields and industry sectors

Ponisseril Somasundaran

La Von Duddleson Krumb Professor of Mineral Engineering, Earth and Environmental Engineering

Member, Editorial Board of the International Journal of BioSciences and Technology and its associated journals

Yannis Tsividis

Charles Batchelor Professor, Electrical Engineering

Honorary Degree, Professor Honoris Causa, University of Patras, Greece

Gil Zussman

Assistant Professor, Electrical Engineering

Invitee, NAE Frontiers of Engineering Education (FOEE) Symposium

for some of the nation’s most engaged and innovative engineering educators, to recognize, reward, and promote effective engineering education through a dialogue within the emerging generation of innovative faculty

Y. Lawrence Yao

Professor, Mechanical Engineering

Editor, Journal of Manufacturing Science and Engineering, American Society of Mechanical Engineers (ASME)
Special Recognition

SIMON J.L. BILLINGE
Professor of Materials Science and of Applied Physics and Applied Mathematics, Applied Physics and Applied Mathematics
Honored in 2011 as one of 24 Outstanding Immigrants by Carnegie Foundation of New York

SAMUEL K. SIA
Associate Professor, Biomedical Engineering
Most downloaded video from Nature.com

JOSEPH F. TRAUB
Edwin Howard Armstrong Professor of Computer Science, Computer Science
Contributor, Oral History Collection housed in the Computer History Museum, Mountain View, California

STEVEN M. BELLOVIN
Professor, Computer Science
Best Paper, 2011 Privacy Law Scholars Conference for “A Study of Privacy Setting Errors in Online Social Networks,” coauthored with Michelle Madejski and Maritza Johnson

SHIH-FU CHANG
Richard Dicker Professor of Telecommunications, Electrical Engineering; Professor of Computer Science; and Senior Vice Dean
Best Paper Award, Association for Computing Machinery (ACM) Multimedia Conference for “Active Query Sensing for Mobile Location Search”

STEPHEN A. EDWARDS
Associate Professor, Computer Science
Selected "Best of Computer Architecture Letters (CAL)" for “Cache Impacts of Datatype Acceleration,” coauthored with Martha A. Kim

EITAN GRINSpun
Associate Professor, Computer Science
Communications of the Association for Computing Machinery (CACM) Research Highlights Editorial Board selected “Asynchronous Contact Mechanics,” to be published in CACM Research Highlights, a publication containing "the most important research results published in CS in recent years"
Special Recognition

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Contributor, Oral History Collection housed in the Computer History Museum, Mountain View, California

Best Paper

STEVEN M. BELLOVIN
Professor, Computer Science
Best Paper, 2011 Privacy Law Scholars Conference
for “A Study of Privacy Setting Errors in Online Social Networks,” coauthored with Michelle Madejski and Maritza Johnson

SHIH-FU CHANG
Richard Dicker Professor of Telecommunications, Electrical Engineering; Professor of Computer Science; and Senior Vice Dean
Best Paper Award, Association for Computing Machinery (ACM) Multimedia Conference
for “Active Query Sensing for Mobile Location Search”

STEPHENV A. EDWARDS
Associate Professor, Computer Science
Selected “Best of Computer Architecture Letters (CAL)”
for “Cache Impacts of Datatype Acceleration,” coauthored with Martha A. Kim

EITAN GRINSPUN
Associate Professor, Computer Science
Communications of the Association for Computing Machinery (CACM) Research Highlights Editorial Board
selected “Asynchronous Contact Mechanics,” to be published in CACM Research Highlights, a publication containing “the most important research results published in CS in recent years”
Best Paper

**Martha A. Kim**

*Assistant Professor, Computer Science*


**Angelos D. Keromytis**

*Associate Professor, Computer Science*

*Best Paper Award, Proceedings of the 6th International Conference on Malicious and Unwanted Software (MALWARE) for “ROP Payload Detection Using Speculative Code Execution,” coauthored with Michalis Polychronakis*

*Best Paper Award, Proceedings of the 6th International Workshop on Security (IWSEC) for “REASSURE: A Self-Contained Mechanism for Healing Software Using Rescue Points,” coauthored with Georgios Portokalidis*

**Salvatore J. Stolfo**

*Professor, Computer Science*

*Best Paper, Institute of Electrical and Electronics Engineers (IEEE) Technologies for Homeland Security (HST) 2011 for “Measuring the Human Factor of Cyber Security,” coauthored with B. Bowen and R. Devarajan*

**Chee Wei Wong**

*Associate Professor, Mechanical Engineering*

*Selected as cover article for Nature Photonics for “Quantum Optics: Correlations on a Chip”*

**John N. Wright**

*Assistant Professor, Electrical Engineering*

*Best Paper Award, 2012 Conference on Learning Technology (COLT) for “Exact Recovery of Sparsely-Used Dictionaries,” coauthored with Huan Wang and Dan Spielman*
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Helen H. Lu  
Associate Professor, Biomedical Engineering  

Most Downloaded Paper Award, 2011 Annals of Biomedical Engineering  
for “Tissue Engineering Strategies for the Regeneration of Orthopedic Interfaces,” coauthored with Siddarth D. Subramony, Margaret K. Boushell, and Xinzhi Zhang

JASON NIEH  
Associate Professor, Computer Science  

Best Paper Award, 2012 Association for Computing Machinery (ACM) Special Interest Group on Computer Science Education (SIGCSE)  
for “Teaching Operating Systems Using Android,” coauthored with Jeremy Andrus

Best Paper Award, 2011 Association for Computing Machinery (ACM) Symposium on Operating Systems Principles (SOSP)  
for “Cells: A Virtual Mobile Smartphone Architecture,” coauthored with Jeremy Andrus, Christoffer Dall, Alex Van’t Hof, and Oren Laadan

Salvatore J. Stolfo  
Professor, Computer Science  

Best Paper, Institute of Electrical and Electronics Engineers (IEEE) Technologies for Homeland Security (HST) 2011  
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Maria Chudnovsky
Associate Professor, Industrial Engineering and Operations Research

MacArthur Foundation Fellowship
given to talented individuals with exceptional creativity, promise for important future advances based on a track record of significant accomplishments, and potential for the fellowship to facilitate subsequent creative work; for investigating the fundamental principles of graph theory and laying the conceptual foundations for deepening connections between graph theory and other major branches of mathematics, including linear programming and geometry
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Morton B. Friedman

Professor of Civil Engineering and Engineering Mechanics, and of Applied Physics and Applied Mathematics, and Senior Vice Dean Emeritus

In recognition of and grateful appreciation for his lifelong devotion to Columbia’s School of Engineering and Applied Science as a professor and senior vice dean, the School will be dedicating the new meeting space on the fifth floor of the S.W. Mudd building as the Morton B. Friedman Conference Room.

Since 1956, Columbia has been the academic and professional home of Morton B. Friedman. After receiving his B.S., M.S., and Eng.Sc.D. degrees from New York University, Dr. Friedman began his career as a research associate at NYU. In 1956, he was appointed an assistant professor in Columbia’s Department of Civil Engineering and Engineering Mechanics. In 1966, he was appointed full professor, a position he still holds. In 1995, he was appointed vice dean, becoming senior vice dean in 2010, and senior vice dean emeritus in 2012.

During his career at Columbia, Professor Friedman founded the Division of Mathematical Methods, the precursor to the applied mathematics component of the present Department of Applied Physics and Applied Mathematics, where he is still a member of the faculty of that department. His professional specialty has been the application of advanced mathematical techniques to problems in applied mechanics. He and his students were the earliest developers of the so-called boundary element methods that have found widespread applications in many engineering disciplines.

As vice dean, Dr. Friedman has restructured undergraduate engineering education at Columbia in major ways—bringing engineering education into the first-year curriculum with project-based design and with discipline-specific professional courses, creating a minors program in more than 20 liberal arts subjects, and encouraging research opportunities with junior and senior faculty. From 1981 to 1995, he was chair of the Department of Civil Engineering and Engineering Mechanics and, from 1980 to 1991, also held the post of associate dean for instruction and research. In addition, he chaired the Executive Committee of the University Senate for several years.

A former Fulbright Professor in applied mathematics and Field Instrumentation Scholar for the American Institute of Physics, he was recognized for his outstanding teaching by the Society of Columbia Graduates, which honored him with their Great Teacher Award.
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