Columbia University
The Fu Foundation School of Engineering and Applied Science

TWO THOUSAND THIRTEEN

Celebrating Faculty Excellence

ACCLAIMING THE AWARDS, HONORS, AND RECOGNITIONS THAT OUR FACULTY RECEIVED DURING THE PAST YEAR
Introduction

As we gather today to celebrate the significant accomplishments of our faculty during the past academic year, we recognize that our honorees are now becoming part of the lineage of faculty excellence that began with our first dean, Charles F. Chandler. The contributions of Professor Chandler illustrate that, from the beginning, our School’s faculty have been creative problem solvers whose work directly and profoundly impacts people’s lives.

It is particularly appropriate to spotlight Chandler as we are preparing to celebrate the 150th anniversary of the founding of our School in 1864. Chandler’s contributions were well recognized by the City of New York due to his focus on the City’s public health—from ensuring the safety of milk and drinking water to advocating for indoor plumbing to providing free vaccinations.

I believe that a similar recognition exists today of the power of engineering and the applied sciences to improve the human condition, finding solutions that can impact such basic human needs as access to food, clean water, and clear air.

As faculty, not only are we working to advance society through our research, but also we are responsible for educating the next generation of engineers and applied scientists, our leaders for tomorrow. Through our teaching, mentoring, and example, we are preparing our students to use their intellect, innovation, and creativity to make the lives of future generations better.

Mary C. Boyce
Dean of Engineering
Morris A. and Alma Schapiro Professor
Mark A. Cane
Professor, Applied Physics and Applied Mathematics

National Academy of Sciences
elected a member of the National Academy of Sciences in recognition of his distinguished and continuing achievements in original research

2013 Maurice Ewing Medal
given by the American Geophysical Union for significant original contributions to the scientific understanding of the processes in the ocean; for the advancement of oceanographic engineering, technology, and instrumentation; and for outstanding service to the marine sciences
Named Professors

GERARD ATESHIAN
Andrew Walz Professor of Mechanical Engineering
Mechanical Engineering

JULIA HIRSCHBERG
Percy K. and Vida L. W. Hudson Professor of Computer Science
Computer Science

DAVID D. YAO
Piyasombatkul Family Professor of Industrial Engineering and Operations Research
Industrial Engineering and Operations Research
Singular Honors

**ALFRED V. AHO**

*Lawrence Gussman Professor of Computer Science*

**Royal Society of Canada**
elected a fellow of the Royal Society of Canada, the highest honor a scholar can achieve in the arts, humanities, and sciences in Canada

**DONALD GOLDFARB**

*Alexander and Hermine Avanessians Professor of Industrial Engineering and Operations Research*

**2013 Khachiyan Prize, INFORMS Optimization Society**

for outstanding lifetime contributions to the field of optimization

**UPMANU LALL**

*Alan & Carol Silberstein Professor of Earth and Environmental Engineering; Professor, Civil Engineering and Engineering Mechanics*

**Henry Darcy Medal, European Geosciences Union,**
established by the Division on Hydrological Sciences, in recognition of outstanding scientific contributions in water resources research and water resources engineering and management
**Faculty Early Career Development Awards**

**TIFFANY A. SHAW**  
*Assistant Professor, Applied Physics and Applied Mathematics*

**Packard Fellowship**

to support her research on moisture transport and its interaction with large-scale flow patterns and the impact of climate change

**NSF CAREER Award**
to support her research on the role of moisture transport in the Northern Hemisphere summer circulation and its variability and future change

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**SIMHA SETHUMADHAVAN**  
*Associate Professor, Computer Science*

**Alfred P. Sloan Research Fellowship**
given to early-career scientists and scholars whose achievements and potential identify them as the next generation of scientific leaders

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**AUGUSTIN CHAINTREAU**  
*Assistant Professor, Computer Science*

**NSF CAREER Award**
to investigate analytics for data regained by users

**ACM SIGMETRICS Rising Star Award**
in recognition of his significant contributions to the analysis of emerging distributed digital and social networking system
Faculty Early Career Development Awards

Hayden Huang
Assistant Professor, Biomedical Engineering
NSF CAREER Award
to support his research on three-dimensional cell mechanics

Martha A. Kim
Assistant Professor, Computer Science
NSF CAREER Award
to support her research on energy tracking and monitoring techniques to audit and control software energy consumption

Chris A. Marianetti
Associate Professor, Applied Physics and Applied Mathematics
DARPA Young Faculty Award
given to rising research stars in junior faculty positions at U.S. academic institutions to expose them to the needs of the Department of Defense and DARPA’s program development process
Election to Professional Societies

Daniel Bienstock

Professor of Industrial Engineering and Operations Research and of Applied Physics and Applied Mathematics

Fellow, Institute for Operations Research and the Management Sciences (INFORMS)

for outstanding lifetime achievement in operations research and the management sciences

Kartik Chandran

Associate Professor, Earth and Environmental Engineering

Fellow, Water Environment Federation (WEF), which recognizes WEF members’ achievements, stature, and contributions in the water field, from areas of research and regulation to education and leadership

Jingguang Chen

Thayer Lindsley Professor of Chemical Engineering

Fellow, American Chemical Society

for achievements focused on the understanding and application of carbide and bimetallic catalysts and electrocatalysts for energy applications

Elected Chair, Catalysis Division, American Chemical Society, world’s largest scientific society committed to “Improving people’s lives through the transforming power of chemistry”
Election to Professional Societies

GUILLERMO M. GALLEGO

Liu Family Professor of Industrial Engineering and Operations Research

Fellow, Institute for Operations Research and the Management Sciences (INFORMS)

for contributions to revenue management and inventory theory that have provided new insights and effective methods for problem solving, and for compelling leadership at Columbia University and in the profession

Fellow, Manufacturing and Service Operations Management Society (MSOM),

promoting the enhancement and dissemination of knowledge, and the efficiency of industrial practice, related to the operations function in manufacturing and service enterprises

X. EDWARD GUO

Professor, Biomedical Engineering

Member, Board of Directors of the Orthopaedic Research Society,

advancing the global orthopaedic research agenda through excellence in research, education, collaboration, communication, and advocacy

TONY F. HEINZ

David M. Rickey Professor of Optical Communications, Electrical Engineering

Fellow, American Vacuum Society (AVS)

for sustained and outstanding technical contributions in areas of interest to AVS
Election to Professional Societies

ANDREAS H. HIELSCHER
Professor of Biomedical Engineering and of Electrical Engineering
Fellow, American Institute for Medical and Biological Engineering (AIMBE),
the authoritative voice and advocate for the value of medical and biological engineering to society

JULIA B. HIRSCHBERG
Professor, Computer Science
Elected Councilor, American Association of Artificial Intelligence,
devoted to advancing the scientific understanding of the mechanisms underlying thought and intelligent behavior and their embodiment in machines

Elected to the Executive Board, Association for Computational Linguistics (North American Chapter),
the international scientific and professional society for people working on problems involving natural language and computation

Elected to the Executive Board, the Computing Research Association (CRA),
enhancing innovation by joining with industry, government, and academia to strengthen research and advanced education in computing
Election to Professional Societies

Christopher R. Jacobs
Associate Professor, Biomedical Engineering

Fellow, American Institute for Medical and Biological Engineering (AIMBE),
the authoritative voice and advocate for the value of medical and biological engineering to society

Soulaymane Kachani
Professor of Professional Practice, Industrial Engineering and Operations Research; Vice Dean for Academic Programs

Inducted into the World Economic Forum’s Young Global Leaders, Class of 2013
for proven track record of professional accomplishments, breadth of expertise, commitment to society, shared purpose of creating a better world, and desire to turn personal success into global significance through the scaling up of ideas that lead to impactful change

Barclay Morrison
Associate Professor, Biomedical Engineering

Elected Council Member, International Research Council on Biomechanics of Injury,
the premier forum for researchers in the field of injury biomechanics
Andrew W. Smyth

Professor, Civil Engineering and Engineering Mechanics

Fellow, Engineering Mechanics Institute, American Society of Civil Engineers (ASCE),
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.

Clifford S. Stein

Professor of Industrial Engineering and Operations Research and of Computer Science

Fellow, Association for Computing Machinery (ACM) for contributions to the theory of combinatorial optimization and to the design and analysis of graph algorithms.

Salvatore J. Stolfo

Professor, Computer Science

Appointed to National Academies National Research Council Panel on Information Science at the Army Research Laboratory (ARL), reviewer of the scientific and technical quality of the ARL’s programs of research and development related to its information science technical area.
Election to Professional Societies

JOSEPH F. TRAUB

*Edwin Howard Armstrong Professor of Computer Science*

Fellow, American Mathematical Society,
advancing the interests of mathematical research and scholarship

GORDANA VUNJAK-NOVAKOVIC

*The Mikati Foundation Professor of Biomedical Engineering*

Elected to Executive Committee, Section for Bioengineering, National Academy of Engineering

Founding Fellow, International Fellows of Tissue Engineering and Regenerative Medicine,
created to recognize a distinguished leader within the tissue engineering and regenerative medicine field

Elected to Academia Europaea,
an international organization of eminent scholars, who span the academic disciplines of humanities, social, physical, and life sciences as well as mathematics, engineering, and medicine

Elected to Serbian Academy of Sciences and Arts,
the highest scientific and art institution in the Republic of Serbia

Elected to Serbian National Academy of Engineering,
for engineers with notable professional, scientific, and educational achievements
Recognition/Achievement Awards

DIMITRIS ANASTASSIOU
Charles Batchelor Professor of Electrical Engineering
Winner, SAGE BioNetworks/DREAM Breast Cancer Prognosis Challenge
for developing a new computational model that is highly predictive of breast cancer survival

GERARD A. ATESHIAN
Professor of Mechanical Engineering and of Biomedical Engineering
2013 OARSI Basic Science Award
given by Osteoarthritis Research Society International for outstanding work in the area of cartilage mechanics, lubrication, and tissue engineering

PETER N. BELHUMEUR
Professor, Computer Science
2012 Mark Everingham Prize for Rigorous Evaluation
for “Tom-vs-Pete Classifiers and Identity-Preserving Alignment for Face Verification,” given at the annual British Machine Vision Conference (BMVC); co-recipient with Thomas Berg

SIMON J. L. BILLINGE
Professor of Materials Science and of Applied Physics and Applied Mathematics
Neutron Scattering Society of America (NSSA) Service Award
Recognition/Achievement Awards

**Jose Blanchet**

*Associate Professor, Industrial Engineering and Operations Research*

Professional Merit Award, ITAM (Mexico)
given to distinguished alumni for outstanding professional achievement

**Shih-Fu Chang**

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

2012 IEEE Signal Processing Society Technical Achievement Award
for pioneering contributions to signal processing for multimedia content analysis and retrieval

**Tony Jebara**

*Associate Professor, Computer Science*

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

**John R. Kender**

*Professor, Computer Science*

Best Reviewer Award
given at the Association for Computing Machinery (ACM) International Conference on Multimedia Retrieval (ICMR)
Recognition/Achievement Awards

ANGELOS D. KEROMYTIS

Associate Professor, Computer Science

ACM Distinguished Scientist
recognized by the Association for Computing Machinery (ACM) for significant accomplishments in systems security and network security

IOANNIS KYMISSIS

Associate Professor, Electrical Engineering

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

2012 MIT/USDOE Clean Energy Prize, First Prize
for designing a radiator retrofit that increases the energy efficiency of steam heating systems; co-recipient with Marshall Cox and John Sarik

JEFFREY W. KYSAR

Professor, Mechanical Engineering

Best Poster Award, National Synchrotron Light Source (NSLS) and Center for Functional Nanomaterials (CFN) Users’ Meeting, Brookhaven National Laboratory

HOE I. LING

Professor, Civil Engineering and Engineering Mechanics

Sh. M. Aytaliev Medal, Kazakhstan Geotechnical Society
for significant achievements and innovations in soil mechanics, geomechanics, and underground construction
Recognition/Achievement Awards

Debasis Mitra
Professor, Electrical Engineering

2012 ACM SIGMETRICS Achievement Award
in recognition of his fundamental contributions to the modeling, analysis, and design of communication networks

2012 Arne Jensen Lifetime Achievement Award
given by the International Advisory Council of the International Teletraffic Congress, a worldwide forum for all questions related to network and service performance, management, and assessment, both present and futuristic

Arvind Narayanaswamy
Assistant Professor, Mechanical Engineering

Best Poster Award, Heat Transfer Division,
2012 IMECE Micro Nano Forum
for “Proximity Effects in Radiative Heat Transfer”; co-recipient with Karthik Sasihithlu

Feniosky A. Peña-Mora
Edwin Howard Armstrong Professor of Civil Engineering and Engineering Mechanics; Professor of Earth and Environmental Engineering and of Computer Science

J. James R. Croes Medal, American Society of Civil Engineers (ASCE)
for “Integrated Sequential As-Built and As-Planned Representation with D4AR Tools in Support of Decision-Making Tasks in the AEC/FM Industry”; coauthored with Mani Golparvar-Fard and Silvio Savarese

Best Poster Award, Construction Research Congress
“Robust Material Recognition for Automated Building Information Modeling from Unordered Site Image Collections”; co-recipient with M. Golparvar-Fard and A. Dimitrov
**Michael P. Sheetz**

William R. Kenan Jr. Professor of Cell Biology, Biological Sciences, and Biomedical Engineering

2012 Albert Lasker Basic Medical Research Award, honoring scientists whose fundamental investigations have provided techniques, information, or concepts contributing to the elimination of major causes of disability and death.

2012 Wiley Award in Biomedical Sciences, recognizing contributions that have opened new fields of research or have advanced novel concepts or their applications in a particular biomedical discipline.

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**Ponisseril Somasundaran**

LaVon Duddleson Krumb Professor of Mineral Engineering, Earth and Environmental Engineering

Legion of Honor Member, Society for Mining, Metallurgy, and Exploration (SME), a member society of the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME), one of the first national engineering societies established in the United States.

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**Yannis P. Tsividis**

Charles Batchelor Professor of Electrical Engineering

Outstanding Achievement Award, University of Minnesota, Minneapolis

given by the University of Minnesota to distinguished alumni.
Recognition/Achievement Awards

Venkat Venkatasubramanian

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

Best Poster Award, European Symposium on Computer-Aided Process Engineering

for “Intelligent Alarm System Applied to Continuous Pharmaceutical Manufacturing,” coauthored with A. Gupta, A. Giridhar, and G. Reklaitis

Ward Whitt

Wai T. Chang Professor of Industrial Engineering and Operations Research

2012 INFORMS Manufacturing and Service Operations Management Distinguished Fellow Award

in recognition of outstanding research and scholarship in operations management

Peter R. Kinget

Professor, Electrical Engineering

Ioannis Kymissis

Associate Professor, Electrical Engineering

Co-winners, 2012 Interdigital Innovation Challenge, First Prize

for an invention that uses ultrasound for wireless communication; co-recipients with K. Yadav
Special Recognitions

**Peter N. Belhumeur**
Professor, Computer Science

**SELECTEE, SCIENTIFIC AMERICAN STAFF PICKS 2012:**
“10 Apps for Your Smartphone or Tablet” for “Leafsnap,” a free electronic field guide that uses visual-recognition software to help identify tree species from photographs of their leaves.

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**Christine P. Fleming**
Assistant Professor, Electrical Engineering

**FORBES “30 UNDER 30,” SCIENCE AND HEALTHCARE**
for developing tools for imaging the muscle tissue of the heart, to give heart surgeons a more detailed view to help diagnose disease and guide treatment.

**MIT TECHNOLOGY REVIEW, 35 INNOVATORS UNDER 35**
for designing a new type of catheter capable of imaging heart muscle, available in real time during cardiac procedures.

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**Martha A. Kim**
Assistant Professor, Computer Science

**SELECTEE, IEEE MICRO’S TOP PICKS FROM THE COMPUTER ARCHITECTURE CONFERENCES**
for “Collection, Analysis, and Uses of Parallel Block Vectors,” coauthored with Melanie Kambadur and Kui Tang.
Special Recognitions

Richard M. Osgood Jr.

Higgins Professor of Electrical Engineering; Professor, Applied Physics and Applied Mathematics


Simha Sethumadhavan

Associate Professor, Computer Science

Selectee, IEEE Micro’s Top Picks from the Computer Architecture Conferences for “A Quantitative, Experimental Approach to Measuring Processor Side-Channel Security,” coauthored with John Demme, Robert Martin, and Adam Waksman

Venkat Venkatasubramanian

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

Most cited paper in Computers & Chemical Engineering from 2003 to 2013, according to Elsevier

Special Recognitions

CHRIS H. WIGGINS
Associate Professor, Applied Physics and Applied Mathematics
Panel Organizer, SXSW Interactive Conference 2012
for “Keeping Kids off the Street: Wall St. vs. Startups”

CHANGXI ZHENG
Assistant Professor, Computer Science
Forbes “30 under 30,” Science and Healthcare
for building models and algorithms to create realistic virtual environments—both visible and audible—for a wide range of applications

HAYDEN HUANG
Assistant Professor, Biomedical Engineering

CHRISTOPHER R. JACOBS
Associate Professor, Biomedical Engineering
Coauthors of An Introduction to Cell Mechanics and Mechanobiology,
the first cell mechanics textbook to be geared specifically toward students with diverse backgrounds in engineering and biology
Notable Professional Recognitions

Keren Bergman
Charles Batchelor Professor of Electrical Engineering

Member, National Research Council Panel on Digitization and Communications Science, Army Research Laboratory (ARL), Computational and Information Sciences Directorate (CISD)

Jingguang Chen
Thayer Lindsley Professor of Chemical Engineering

Director-at-Large, North American Catalysis Society
Editor, Applied Surface Science
Editor, Surface Science Reports

Eitan Grinspun
Associate Professor, Computer Science

Fast Company Most Creative People 2013
for building programs that make computer-generated hair more lifelike

X. Edward Guo
Professor, Biomedical Engineering

President, International Chinese Musculoskeletal Research Society
Notable Professional Recognitions

**Henry S. Hess**

*Associate Professor, Biomedical Engineering*

Distinguished Faculty, 11th International Summer School on Biocomplexity from Gene to Systems, Istanbul

Editor-in-Chief, *IEEE Transactions on Nanobioscience Journal*

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**Elizabeth M. C. Hillman**

*Associate Professor, Biomedical Engineering*

Chair, 2013 Michael S. Feld Biophotonics Award Selection Committee, the Optical Society

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**Tony Jebara**

*Associate Professor, Computer Science*

Chair, 31st International Conference on Machine Learning (ICML 2014)

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**Angelos D. Keromytis**

*Associate Professor, Computer Science*

Program Director, Division of Computer and Network Systems, National Science Foundation
Notable Professional Recognitions

ANDREW F. LAINE

Percy K. and Vida L. W. Hudson Professor of Biomedical Engineering

Member, Scientific Advisory Board, *IEEE Transactions on Biomedical Engineering*,
the flagship journal for IEEE Engineering in Medicine and Biology Society (EMBS)

Co-Chair, IEEE Engineering in Medicine and Biology Society (EMBS) Conference on Biomedical and Health Informatics

IEEE EMBS is the largest professional society in the field of Biomedical Engineering, with more than 8,000 members.

HELEN H. LU

Associate Professor, Biomedical Engineering

Member, Editorial Advisory Board, *Nanomaterials and Tissue Regeneration*

Editor, Special Issue on Complex Scaffold Design, *Biomedical Materials*

BARCLAY MORRISON

Associate Professor, Biomedical Engineering

Associate Editor, *Journal of Biomechanical Engineering*
Notable Professional Recognitions

AH-HYUNG ALISSA PARK
Lenfest Junior Professor in Applied Climate Science, Earth and Environmental Engineering

Selected to participate in NAE’s 2013 U.S. Frontiers of Engineering Symposium

Associate Editor, Chemical Engineering Science

PAUL SAJDA
Professor, Biomedical Engineering

Selected participant, National Academies’ Keck Futures Initiative (NAKFI), “The Informed Brain in a Digital World”

PETER SCHLOSSER
Vinton Professor of Earth and Environmental Engineering

Board Member, International Sustainable Development Society (ISDRS)

HENNING G. SCHULZRINNE
Julian Clarence Levi Professor of Computer Science; Professor of Electrical Engineering

Induction into Internet Hall of Fame 2013, “Innovator” category

for co-developing protocols used by almost all Internet telephony and multimedia applications
Notable Professional Recognitions

PONISSERIL SOMASUNDRAN

LaVon Duddleson Krumb Professor of Mineral Engineering, Earth and Environmental Engineering

Honorary Adviser, China National Electric Apparatus Research Institute Co., Ltd, Guangzhou, China

Chair, Unilever Award Committee, American Chemical Society

CLIFFORD S. STEIN

Professor of Industrial Engineering and Operations Research and of Computer Science

Chair, Steering Committee, Symposium on Discrete Algorithms

GORDANA VUNJAK-NOVAKOVIC

The Mikati Foundation Professor of Biomedical Engineering

2013 Rushmer Lecture, University of Washington, Seattle

2012 Hollingsworth Distinguished Lectureship, University of Texas, Austin

Scientific Director, Board of Directors, Center for Advancement of Science in Space (CASI)

Member, Editorial Board, eLife, a researcher-led, open access digital publication for outstanding research in life science and biomedicine

Member, Executive Editorial Board, Tissue Engineering

Program Chair, 2013 Biomedical Engineering Society Annual Meeting

Member, Board of Directors, Center for Advancement of Science
Scholarly Leadership

**Sunil K. Agrawal**
Professor, Mechanical Engineering

*Keynote Speaker, Workshop on Assistive and Surgical Robotics, Taiwan*

*Keynote Speaker, 5th Workshop in Applied Robotics and Automation, RoboControl 2012, Brazil*

**Guillermo M. Gallego**
Liu Family Professor of Industrial Engineering and Operations Research

*Keynote Speaker, 2013 INFORMS Annual Meeting*

**Jonathan L. Gross**
Professor, Computer Science

*Keynote Speaker, 6th International Conference on Graph Embeddings and Maps on Surfaces*

**X. Edward Guo**
Professor, Biomedical Engineering

*Keynote Speaker, 6th International Congress of Chinese Orthopaedic Association*
Scholarly Leadership

Julia B. Hirschberg
Professor, Computer Science
Keynote Speaker, Illinois Speech Day, Toyota Technology Institute

Tony Jebara
Associate Professor, Computer Science
Speaker, National Academies 2013 Frontiers of Engineering Conference, recognizing young engineers from industry, academia, and government who are performing exceptional engineering research and technical work

Kathleen McKeown
Henry and Gertrude Rothschild Professor of Computer Science
Keynote Speaker, the 2013 Conference of the North American Association for Computational Linguistics

Tal G. Malkin
Associate Professor, Computer Science
Keynote Speaker, Theory of Cryptography Conference (TCC)
Van C. Mow

Stanley Dicker Professor of Biomedical Engineering

Richard Skalak Memorial Lecture, University of California, San Diego

Keynote Speaker, 60th Anniversary of Beijing University of Aeronautics and Astronautics

Michael I. Weinstein

Professor, Applied Physics and Applied Mathematics

Keynote Speaker, Conference on Nonlinear Waves, Chinese Academy of Sciences

William E. Bailey

Associate Professor, Applied Physics and Applied Mathematics

Invited Professor
Université Joseph Fourier, Grenoble

Maria Q. Feng

Renwick Professor of Civil Engineering, Civil Engineering and Engineering Mechanics

Honorary Professor
University of Electro-Communications (UEC), Tokyo
Honorary Professorships

PIERRE GENTINE
Assistant Professor, Earth and Environmental Engineering
Invited Professor
École Normale Supérieure, Paris
Invited Professor
Wageningen University, Netherlands

HOE I. LING
Professor, Civil Engineering and Engineering Mechanics
Visiting Professor
University of Science, Malaysia

RICHARD W. LONGMAN
Professor of Mechanical Engineering and of Civil Engineering and Engineering Mechanics
HGS Distinguished Romberg Professor
University of Heidelberg, Interdisciplinary Center for Scientific Computing

FRANCESCO A. VOLPE
Assistant Professor, Applied Physics and Applied Mathematics
Visiting Professor
Kyoto University
Honorary Professorships

**Gordana Vunjak-Novakovic**

*The Mikati Foundation Professor of Biomedical Engineering*

**Visiting Professor**

**Penn Center for Musculoskeletal Disorders,**

**University of Pennsylvania**

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**Best Papers**

**Luca Carloni**

*Associate Professor, Computer Science*

**Best Paper Award, DATE 2012**

for “Compositional System-Level Design Exploration with Planning of High-Level Synthesis,” coauthored with Hung-Yi Liu and Michele Petracca

**Best Paper Award, CloudCom 2012**

for “A Broadband Embedded Computing System for MapReduce Utilizing Hadoop,” coauthored with Younghoon Jung and Richard Neill

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**Maria Q. Feng**

*Renwick Professor of Civil Engineering, Civil Engineering and Engineering Mechanics*

**Best Antenna Measurement Paper Award, 2011, 5th European Conference on Antennas and Propagation**

for “Microwave Non-Destructive Evaluation of Corrosion in Reinforced Concrete Structures,” coauthored with Gemma Roqueta and Luis Jofre
GUILLERMO M. GALLEGOLiu Family Professor of Industrial Engineering andOperations Research

Best Paper, AGIFORS 2012
for “The Pitfalls of Using Independent Demands with Fare Adjustments,”
coauthored with Lin Ji

JULIA B. HIRSCHBERGProfessor, Computer Science

Best Paper Award, CogInfoCom 2012
for “Entrainment in Spontaneous Speech: The Case of Filled Pauses
in Supreme Court Hearings,” coauthored with Stefan Benus and
Rivka Levitan

TONY JEBARAAssociate Professor, Computer Science

Best Paper Award, 2012 Machine Learning Symposium,
New York Academy of Sciences
for “Majorization for CRFs and Latent Likelihoods,” coauthored with
A. Choromanskas

QIAO LINAssociate Professor, Mechanical Engineering

CM HO Best Paper, 2013 IEEE International Conference on
Nano/Micro Engineered and Molecular Systems (NEMS)
for “Physical Modulation Based Cell Manipulation on a Microchip,”
coauthored with J. Zhu, J. Shang, Y. Jia, K. Liu, and D. Brenner
**FENIOSKY A. PEÑA-MORA**  
*Edwin Howard Armstrong Professor of Civil Engineering and Engineering Mechanics; Professor of Earth and Environmental Engineering and of Computer Science*

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**Best Paper Award, 2013 Joint International Conference on Construction Engineering and Management and Construction Project Management**  
for “Construction Equipment Activity Recognition from Accelerometer Data for Monitoring Operational Efficiency and Environmental Performance,” coauthored with C. Ahn and S. Lee

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**Best Paper Award, 2012 ASCE International Conference on Computing in Civil Engineering**  
for “A Machine-Learning Classification Approach to Automatic Detection of Workers' Actions for Behavior-Based Safety Analysis,” coauthored with S. Han and S. Lee

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**JOSEPH F. TRAUB**  
*Edwin Howard Armstrong Professor of Computer Science*

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**Editors’ Suggestion Paper, Physical Review A**  
for “Measures of Quantum Computing Speedup,” cited by editors and referees for particular interest, importance, or clarity; co-written with Anargyros Papageorgiou
KATHLEEN McKEOWN

Henry and Gertrude Rothschild Professor of Computer Science


STEVEN M. NOWICK

Professor of Computer Science and of Electrical Engineering

YANNIS P. TSIVIDIS

Charles Batchelor Professor of Electrical Engineering

Best Paper Award in the Logic and Circuit Design Track of the 30th IEEE International Conference on Computer Design (ICCD) for “Designing Pipelined Delay Lines with Dynamically-Adaptive Granularity for Low-Energy Applications,” coauthored with Christos Vezyrtzis
Henning G. Schulzrinne

Julian Clarence Levi Professor of Computer Science; Professor of Electrical Engineering

Gil Zussman

Associate Professor, Electrical Engineering

Best Educational Paper Award, GREE 2013
for “WiMax in the Classroom: Designing a Cellular Networking Hands-on Lab,” coauthored with Jelena Marasevic and Jan Janak
Excellence