Ranked among the top 10 engineering schools at public universities around the world, the UCLA Henry Samueli School of Engineering and Applied Science is at the forefront of interdisciplinary research and education.

Established in 1945, UCLA Engineering offers 28 academic and professional degree programs, and has an enrollment in excess of 5,000 students.

Thirty-one affiliated faculty are members of the National Academy of Engineering, more than 60 have received the National Science Foundation Early Career Award, two have won the A.M. Turing Award, and one the Nobel Prize.

The school is home to nine multi-million-dollar centers of excellence in areas including nanoelectronics, nanotechnology, wireless sensing, green energy, customized computing, and the smart grid, all funded by federal and private agencies.

UCLA ENGINEERING
www.engineer.ucla.edu

OFFICE OF THE DEAN
Jayathi Murthy, Dean
7400 Boelter Hall
Box 951600
Los Angeles, CA 90095-1600
310.825.2938
engrdean@ea.ucla.edu

OFFICE OF EXTERNAL AFFAIRS
Brandon Baker, Executive Director
7256 Boelter Hall
Box 951600
Los Angeles, CA 90095-1600
310.206.0678
uclaengineering@support.ucla.edu
CONTENTS

UCLA Engineering Department Faculty

Bioengineering .................................................. 3

Chemical and Biomolecular Engineering ................. 19

Civil and Environmental Engineering .................. 29

Computer Science ............................................. 41

Electrical Engineering ........................................ 63

Materials Science and Engineering .................... 90

Mechanical and Aerospace Engineering ............... 101

UCLA Engineering Centers of Excellence ............. 121

Index

Faculty by Name ............................................. 123

Faculty by Major Research Areas ...................... 127

Faculty by Major Cross-Disciplinary Research Areas .. 134
Bioengineering

ADDRESS:
Department of Bioengineering
420 Westwood Plaza
5121 Engineering V
Box 951600
Los Angeles, CA 90095-1600

PHONE:
310.267.4985

http://www.bioeng.ucla.edu
Denise Aberle, M.D.  
Professor

OTHER AFFILIATION:  
Radiological Sciences

EXPERTISE:  
• Medical Imaging and Informatics  
• Imaging-Based Clinical Trials  
• Lung Cancer  
• Thoracic Imaging  
• Structured Reporting  
• Imaging and Imaging Biomarkers

MAJOR RESEARCH AREA:  
• Medical Imaging Informatics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Healthcare Technologies

CONTACT INFORMATION:  
EMAIL: aberle@mednet.ucla.edu  
PHONE: 310.794.8989

goto: http://www.bioeng.ucla.edu/denise-aberle-m.d/

Mark Cohen, Ph.D.  
Professor-in-Residence

OTHER AFFILIATIONS:  
Psychiatry and Biobehavioral Sciences,  
Neurology, Psychology, Radiological Sciences, Biomedical Physics, California NanoSystems Institute

EXPERTISE:  
• Rapid MRI Methods  
• Fusion of Electrophysiology and fMRI  
• Advanced Approaches to MR Data Analysis  
• Ultra-Low Field MRI Using SQUID Detection  
• Low Energy Focused Ultrasound for Neurostimulation  
• The Science of Images: Representation, Information, Resolution

MAJOR RESEARCH AREA:  
• Medical Imaging Informatics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Healthcare Technologies

CONTACT INFORMATION:  
EMAIL: mcohen@.ucla.edu  
PHONE: 310.980.7453

goto: http://www.bioeng.ucla.edu/mark-cohen-ph.d/
Ian A. Cook, M.D.
Professor-in-Residence

OTHER AFFILIATIONS:
Psychiatry and Biobehavioral Sciences, Neurology, Psychology, Radiological Sciences, Biomedical Physics

EXPERTISE:
• Neuromodulation and Brain Stimulation as Treatments
• Brain Function in Normal States and the Presence of Mood and Cognitive Disorders
• Blood Brain Barrier
• Effects of Antidepressants on the Brain
• Methods of Treatment for Mood Disorders, Especially Depression

MAJOR RESEARCH AREAS:
• Medical Imaging Informatics Biomaterials
• Biomedical Devices
• Electrical and Optical Materials
• MEMS and Nanotechnology
• Nanoengineering
• Signals and Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics Materials Processing

CONTACT INFORMATION:
EMAIL: icook@ucla.edu
PHONE: 310.825.0304
http://www.bioeng.ucla.edu/ian-a-cook-m.d/

Linda L. Demer, M.D., Ph.D.
Professor

OTHER AFFILIATIONS:
David Geffen School of Medicine at UCLA, Cardiology, California NanoSystems Institute

EXPERTISE:
• Vascular Biology
• Biomineralization
• Vascular Calcification
• Mesenchymal Stem Cells

MAJOR RESEARCH AREA:
• Molecular and Cellular Bioengineering

CONTACT INFORMATION:
EMAIL: ldemer@mednet.ucla.edu
PHONE: 310.206.2677
http://www.cardiology.med.ucla.edu/faculty/demer.htm
Timothy J. Deming, Ph.D.
Professor

OTHER AFFILIATIONS:
Chemistry and Biochemistry, California NanoSystems Institute

EXPERTISE:
• Polymer Synthesis and Processing
• Supramolecular Materials
• Organometallic Catalysis
• Biomaterials
• Polypeptides
• Drug Delivery

MAJOR RESEARCH AREAS:
• Biomaterials
• Molecular and Cellular Bioengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: demingt@seas.ucla.edu
PHONE: 310.267.4450
http://www.bioeng.ucla.edu/timothy-j-deming-ph-d/

Dino Di Carlo, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Microfluidics
• Biomedical Microdevices
• Cellular Diagnostics
• Cell Analysis and Engineering

MAJOR RESEARCH AREAS:
• Biomaterials
• Biomedical Devices
• Fluid Mechanics
• MEMS and Nanotechnology
• Molecular and Cellular Bioengineering
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: dicarlo@seas.ucla.edu
PHONE: 310.983.3235
http://www.bioeng.ucla.edu/dino-di-carlo-ph-d/
http://www.biomicrofluidics.com
James Dunn, M.D., Ph.D.  
Professor  
OTHER AFFILIATION:  
Pediatric Surgery  
EXPERTISE:  
• Tissue Engineering  
• Stem Cell Therapy  
• Regenerative Tissue Medicine  
MAJOR RESEARCH AREAS:  
• Biomaterials  
• Biomedical Devices  
MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Healthcare Technologies  
CONTACT INFORMATION:  
EMAIL: jdunn@mednet.ucla.edu  
PHONE: 310.206.2429  
http://www.bioeng.ucla.edu/james-dunn-m.d.-ph.d/  

Daniel Ennis, Ph.D.  
Associate Professor-in-Residence  
OTHER AFFILIATIONS:  
Radiological Sciences, Biomedical Physics  
EXPERTISE:  
• Basic Science and Clinical Applications of MRI for Evaluating Cardiovascular Structure, Function and Remodeling  
• Advanced MRI Techniques for Quantifying Tissue Motion, Fluid Flow, and Microstructural Organization of Soft Tissues  
• Finite Element Modeling of Cardiac Mechanics and Electrophysiology  
• Advanced Methods for Pediatric Cardiovascular Exams  
• MRI Safety of Biomedical Devices  
MAJOR RESEARCH AREAS:  
• Biomaterials  
• Computational Systems Biology  
• Fluid Mechanics  
CONTACT INFORMATION:  
EMAIL: Daniel.Ennis@ucla.edu  
PHONE: 310.206.0713  
http://www.bioeng.ucla.edu/daniel-ennis-phd/
Robin Garrell, Ph.D.
Professor

OTHER AFFILIATIONS:
Chemistry and Biochemistry, California NanoSystems Institute

EXPERTISE:
• Fundamentals of Droplet Microfluidics
• Applications of Droplet Microfluidics: Proteomics Sample Preparation for Mass Spectroscopy, Cell Diagnostics and Tissue Culture, Synthesis of Millimeter-scale Polymer Particles
• Synthesis and Applications of Heterogeneous Catalysts Based on Superparamagnetic Nanoparticles

MAJOR RESEARCH AREA:
• Molecular and Cellular Bioengineering

CONTACT INFORMATION:
EMAIL: garrell@chem.ucla.edu
PHONE: 310.805.2496
http://www.bioeng.ucla.edu/robin-l.-garrell-ph.d/

Warren S. Grundfest, M.D.
Professor

OTHER AFFILIATIONS:
Electrical Engineering, Surgery

EXPERTISE:
• Image-Guided Procedures
• Minimally Invasive Surgery
• Medical Applications of Terahertz
• Surgical Robots
• Biologic Spectroscopy
• Excimer Laser Applications
• Photodynamic Therapy
• Ultrasound Technologies
• FDA Regulatory Affairs
• Medical Lasers and Other Energy Delivery Systems

MAJOR RESEARCH AREAS:
• Biomaterials
• Biomedical Devices

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: warrenbe@seas.ucla.edu
PHONE: 310.794.5550
http://www.bioeng.ucla.edu/warren-s.-grundfest-m.d/
Dean Ho, Ph.D.
Professor

OTHER AFFILIATIONS:
Dentistry, California NanoSystems Institute

EXPERTISE:
• Nanotechnology for Drug Delivery, Cancer Therapy, Wound Healing
• Nanomedicine and Imaging
• Translational Medicine

MAJOR RESEARCH AREAS:
• Biomaterials
• Biomedical Devices
• Molecular and Cellular Bioengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: dean.ho@ucla.edu
PHONE: 310.825.7242
https://www.dentistry.ucla.edu/directory/profile/dean-ho-ms-phd

Tzung Hsiai, M.D., Ph.D.
Professor-in-Residence

OTHER AFFILIATIONS:
Cardiology, California NanoSystems Institute

EXPERTISE:
• Microsensors to Study Metabolically Unstable Plaque
• Hemodynamic Shear Stress and Vascular Oxidative Stress
• Microsensors to Study Electrical and Mechanical Coupling of Injured and Regenerating Myocardium

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Biomolecular Engineering and Systems Biology
• Molecular and Cellular Bioengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: thsiai@mednet.ucla.edu
PHONE: 310.478.3711
http://www.bioeng.ucla.edu/tzung-hsiai-ph.d/
Daniel T. Kamei, Ph.D
Professor

EXPERTISE:
• Paper-based Diagnostics
• Point-of-Care Devices
• Nanotechnology
• Drug Delivery
• Molecular and Cellular Bioengineering
• Mathematical Modeling of Biological Processes

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Molecular and Cellular Bioengineering
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: kamei@seas.ucla.edu
PHONE: 310.206.4826
http://www.bioeng.ucla.edu/daniel-kamei-ph.d/

Andrea Kasko, Ph.D.
Associate Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Biomaterials
• Cell-material Interactions
• Controlled Release
• Polymer Synthesis

MAJOR RESEARCH AREA:
• Biomaterials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: akasko@ucla.edu
PHONE: 310.794.6341
http://www.bioeng.ucla.edu/andrea-kasko-ph.d/
Debiao Li, Ph.D.
Professor-in-Residence

OTHER AFFILIATION:
David Geffen School of Medicine at UCLA

EXPERTISE:
• Magnetic Resonance Imaging
• Cardiovascular Imaging
• Coronary Artery Disease
• Angiography
• Perfusion

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Medical Imaging Informatics
• Signals and Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: debiao.li@cshs.org
PHONE: 310.423.7743

http://www.bioeng.ucla.edu/debiao-li-ph.d/

Song Li, Ph.D.
Professor

EXPERTISE:
• Stem Cell Engineering
• Vascular Tissue Engineering and Vascular Remodeling
• Mechanobiology and Mechanotransduction

MAJOR RESEARCH AREA:
• Molecular and Cellular Bioengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

http://ctelab.berkeley.edu/
James C. Liao, Ph.D.
Distinguished Professor
Department Chair
Ralph M. Parsons Foundation Chair in Chemical Engineering
OTHER AFFILIATION:
Chemical and Biomolecular Engineering, California NanoSystems Institute
EXPERTISE:
• Biofuels and Bioenergy
• Metabolic Engineering
• Synthetic Biology
• Systems Biology
MAJOR RESEARCH AREA:
• Biomolecular Engineering and Systems Biology
MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Renewable Energy
CONTACT INFORMATION:
EMAIL: liaoj@ucla.edu
PHONE: 310.825.1656
http://www.bioeng.ucla.edu/james-liao-phd/

Wentai Liu, Ph.D.
Distinguished Professor
OTHER AFFILIATION:
California NanoSystems Institute
EXPERTISE:
• Neural Prosthesis
• Bioelectronics
• Implantable Microelectronics
• High-Speed Transceiver Design (Wired and Wireless)
• Microelectronic Sensors
• Timing/Clock Optimization
• On-chip Interconnects
• Computer Vision/Image Processing
MAJOR RESEARCH AREAS:
• Biomedical Devices
• MEMS and Nanotechnology
• Signals and Systems
MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Wireless Sensing and Networking
CONTACT INFORMATION:
EMAIL: wentai@ucla.edu
PHONE: 310.825.9129
http://www.bioeng.ucla.edu/wentai-liu-phd/
Aman Mahajan, M.D., Ph.D.
Professor-in-Residence

OTHER AFFILIATION:
Anesthesiology

EXPERTISE:
• Arrhythmia, Cardiac Imaging
• Patent Foramen Ovale Repair
• Transesophageal and Transthoracic Echocardiography
• Valvuloplasty

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: amahajan@mednet.ucla.edu
PHONE: 310.825.4350
http://www.bioeng.ucla.edu/aman-mahajan-md/

Jacob Schmidt, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Biomimetic Materials and Devices
• Biophysics at Micro and Nanoscales
• Biomedical Instrumentation
• Biosensors
• Drug Screening
• Nanopores
• Ion Channels

MAJOR RESEARCH AREA:
• Biomedical Devices

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: schmidt@seas.ucla.edu
PHONE: 310.825.4451
http://www.bioeng.ucla.edu/jacob-j-schmidt-ph.d/
Stephanie Seidlits, Ph.D.
Assistant Professor

EXPERTISE:
• Regenerative Strategies for Nervous System Injuries and Disorders
• Transcriptional Signaling in Nervous System Development and Regeneration
• Biomimetic Hydrogel Materials

MAJOR RESEARCH AREAS:
• Biomaterials
• Biomolecular Engineering and Systems Biology
• Molecular and Cellular Bioengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: seidlits@ucla.edu
PHONE: 310.794.5072
http://www.bioeng.ucla.edu/stephanie-seidlits-ph.d/

Kalyanam Shivkumar, M.D., Ph.D.
Professor-in-Residence

OTHER AFFILIATION:
Cardiology and Radiological Sciences

EXPERTISE:
• Cardiac Electrophysiology
• Non-pharmacological Management of Cardiac Arrhythmias

MAJOR RESEARCH AREA:
• Biomedical Devices

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: kshivkumar@mednet.ucla.edu
PHONE: 310.206.2235
http://www.cardiology.med.ucla.edu/faculty/shivkumar.htm
Ren Sun, Ph.D.
Professor

OTHER AFFILIATIONS:
Molecular and Medical Pharmacology, California NanoSystems Institute

EXPERTISE:
• Molecular Mechanisms of Viral Replication
• Nanotechnologies in Viral Detection and Therapy
• Diagnostics and Therapeutic Approaches to Viruses

MAJOR RESEARCH AREA:
• Computational Systems Biology

CONTACT INFORMATION:
EMAIL: rsun@mednet.ucla.edu
PHONE: 310. 794.5557
http://www.bioeng.ucla.edu/ren-sun-phd/

Michael Teitell, M.D., Ph.D.
Professor

OTHER AFFILIATIONS:
Pathology, Pediatrics, Molecular Biology Institute Interdepartmental Program, Jonsson Comprehensive Cancer Center, Broad Stem Cell Research Center, California NanoSystems Institute

EXPERTISE:
• Stem Cell Research and Therapies
• Nanotools, Including Photothermal Nanoblade and Live Cell Interferometry
• Molecular Mechanisms in Cancer and Developmental Biology
• Mitochondria and Cellular Metabolism

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Biomolecular Engineering and Systems Biology
• MEMS and Nanotechnology
• Molecular and Cellular Bioengineering
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: mteitell@mednet.ucla.edu
PHONE: 310.206.6754
http://www.bioeng.ucla.edu/michael-teitell-phd/
http://www.teitell-lab.com/bio.html
Cun Yu Wang, D.D.S., Ph.D.
Professor

OTHER AFFILIATION:
Dentistry

EXPERTISE:
• Molecular Signaling (NF-κB and Wnt)
• Tumor-invasive Growth and Metastasis
• Adult Mesenchymal Stem Cells, Dental Stem Cells and Regenerative Medicine
• Inflammation and Innate Immunity

MAJOR RESEARCH AREA:
• Molecular and Cellular Bioengineering

CONTACT INFORMATION:
EMAIL: cwang@dentistry.ucla.edu
PHONE: 310.825.4415
http://www.bioeng.ucla.edu/cun-yu-wang-d.d.s.-ph.d/

Gerard Wong, Ph.D.
Professor

OTHER AFFILIATIONS:
Chemistry and Biochemistry, California NanoSystems Institute

EXPERTISE:
• Antimicrobials
• Bacteria
• Biofilms
• Cell Membranes
• Soft Matter Physics
• Liquid Crystals
• Apoptosis and Cancer
• Autoimmune Diseases
• Viruses
• Synchrotron X-Ray Techniques
• Cystic Fibrosis
• Water Purification

MAJOR RESEARCH AREAS:
• Biomaterials
• Molecular and Cellular Bioengineering
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies
• Public Health, Resource Monitoring and Protection
• Water

CONTACT INFORMATION:
EMAIL: gclwong@seas.ucla.edu
PHONE: 310.794.7684
http://www.bioeng.ucla.edu/gerard-wong-ph.d/
Benjamin Wu, D.D.S., Ph.D.
Professor

OTHER AFFILIATIONS:
Materials Science and Engineering, Dentistry, California NanoSystems Institute

EXPERTISE:
• Biomechanics
• Biomaterials
• Cell-Material Interactions
• Materials Processing
• Tissue Engineering
• Prosthetic and Regenerative Dentistry
• Biomedical Instrumentation

MAJOR RESEARCH AREAS:
• Biomaterials
• Biomedical Devices
• Ceramics and Ceramic Processing
• Molecular and Cellular Bioengineering
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics Materials Processing
• Public Health, Resource Monitoring and Protection
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: benwu@ucla.edu
PHONE: 310.794.7094
http://www.bioeng.ucla.edu/benjamin-m.-wu-d.s.-ph.d/
Chemical and Biomolecular Engineering

ADDRESS:
Chemical and Biomolecular Engineering Department
5531 Boelter Hall
Box 951592
Los Angeles, CA 90095-1592

PHONE:
310.825.2046

http://www.chemeng.ucla.edu/
Jane P. Chang, Ph.D.
Professor
William Frederick Seyer Chair in Materials Electrochemistry
Associate Dean for Research and Physical Resources
Director, Center for Function Accelerated nanoMaterial Engineering (FAME)
OTHER AFFILIATIONS:
Materials Science and Engineering, California NanoSystems Institute
EXPERTISE:
• Surface and Interface Engineering
• Plasma Enhanced Surface Chemistries
• Synthesis of Multifunctional Oxide Materials/Nanostructures
• Energy Conversion and Storage
• Chemical MEMS Systems
• Computational Surface Chemistry
MAJOR RESEARCH AREAS:
• Electrical and Optical Materials
• Nanoengineering
• Semiconductor Manufacturing
• Structural Materials
MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Renewable Energy
CONTACT INFORMATION:
EMAIL: jpchang@seas.ucla.edu
PHONE: 310.206.7980
http://www.chemeng.ucla.edu/jane-p-chang/

Yvonne Chen, Ph.D.
Assistant Professor
EXPERTISE:
• Molecular and Cellular Bioengineering
• T-cell Immunotherapy
• Synthetic Biology
• Cell-Based Therapy Engineering
MAJOR RESEARCH AREAS:
• Biomolecular Engineering and Systems Biology
• Molecular and Cellular Bioengineering
MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies
CONTACT INFORMATION:
EMAIL: yvchen@ucla.edu
PHONE: 310.825.2816
http://www.chemeng.ucla.edu/yvonne-chen/
Panagiotis D. Christofides, Ph.D.
*Professor*

**OTHER AFFILIATION:**
Electrical Engineering

**EXPERTISE:**
- Advanced Materials Processing
- Process Modeling
- Dynamics and Control
- Applied Mathematics
- Desalination and Water Treatment

**MAJOR RESEARCH AREAS:**
- Hydrology and Water Resources
- Nanoengineering
- Process Systems Engineering
- Semiconductor Manufacturing
- Signals and Systems

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**
- Healthcare Technologies
- Renewable Energy
- Systems, Dynamics and Control
- Water

**CONTACT INFORMATION:**
EMAIL: pdc@seas.ucla.edu
PHONE: 310.794.1015
http://www.chemeng.ucla.edu/panagiotis-christofides/

Yoram Cohen, Ph.D.
*Professor*

**OTHER AFFILIATIONS:**
Institute of the Environment and Sustainability, California NanoSystems Institute

**EXPERTISE:**
- Membrane Science and Technology
- Separation Processes
- Desalination and Water Treatment
- Optimization and Control of Water Treatment
- Graft Polymerization and Surface Nano-Structuring
- Environmental Impact Assessment of Nanotechnology
- High Throughput Toxicity Data
- Modeling of Nanomaterials Toxicity
- Pollutant Transport, Exposure and Risk Assessment

**MAJOR RESEARCH AREAS:**
- Hydrology and Water Resources
- Nanoengineering

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**
- Public Health, Resource Monitoring and Protection
- Systems, Dynamics and Control
- Water

**CONTACT INFORMATION:**
EMAIL: yoram@ucla.edu
PHONE: 310.825.8766
http://www.chemeng.ucla.edu/yoram-cohen/
James F. Davis, Ph.D.
Professor
Vice Provost for Information Technology

EXPERTISE:
• Smart Manufacturing
• Information Technology
• Intelligent Systems and Decision Support
• Control Operations and Design
• Management of Abnormal Situations
• Data Interpretation and Knowledge Management
• Pattern Recognition

MAJOR RESEARCH AREAS:
• Information and Data Management
• Manufacturing and Design
• Process System Engineering
• Systems and Control

CONTACT INFORMATION:
EMAIL: jdavis@oit.ucla.edu
PHONE: 310.206.0011
http://www.chemeng.ucla.edu/james-f-davis/

Robert F. Hicks, Ph.D.
Professor

OTHER AFFILIATION:
Materials Science and Engineering

EXPERTISE:
• Fabrication of Integrated Circuits
• Chemical Vapor Deposition
• Atmospheric Plasma Processing

MAJOR RESEARCH AREAS:
• Nanoengineering
• Semiconductor Manufacturing
• Structural Materials

CONTACT INFORMATION:
EMAIL: rhicks@ucla.edu
PHONE: 310.206.6865
http://www.chemeng.ucla.edu/robert-hicks/
Kendall N. Houk, Ph.D.
Professor
Winstein Chair in Organic Chemistry

OTHER AFFILIATIONS:
Chemistry and Biochemistry, California NanoSystems Institute

EXPERTISE:
• Enzyme Catalysis
• Stereoselective Reactions and Catalysts
• Design of Enzymes and Protein Scaffolds
• Computational Methods for Kinetics and Thermodynamics of Pericyclic Reactions

MAJOR RESEARCH AREA:
• Biomolecular Engineering and Systems Biology

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: houk@chem.ucla.edu
PHONE: 310.206.0515
http://www.chemistry.ucla.edu/directory/houk-kendall-n

James C. Liao, Ph.D.
Distinguished Professor
Department Chair
Ralph M. Parsons Foundation Chair in Chemical Engineering

OTHER AFFILIATIONS:
Bioengineering, California NanoSystems Institute

EXPERTISE:
• Biofuels and Bioenergy
• Metabolic Engineering
• Synthetic Biology
• Systems Biology

MAJOR RESEARCH AREA:
• Biomolecular Engineering and Systems Biology

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Renewable Energy

CONTACT INFORMATION:
EMAIL: liaoj@ucla.edu
PHONE: 310.825.1656
http://www.chemeng.ucla.edu/james-c-liao/
Yunfeng Lu, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Biomimetic Materials and Devices
• Nanotechnology
• Energy

MAJOR RESEARCH AREA:
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Renewable Energy

CONTACT INFORMATION:
EMAIL: luucla@ucla.edu
PHONE: 310.794.7238
http://www.chemeng.ucla.edu/yunfeng-lu/

Vasilios Manousiouthakis, Ph.D.
Professor

EXPERTISE:
• Process Systems Engineering: Modeling, Simulation, Design, Optimization and Control
• Semiconductor Manufacturing
• Energy and the Environment
• The Hydrogen Economy

MAJOR RESEARCH AREAS:
• Process System Engineering
• Semiconductor Manufacturing

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Renewable Energy
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: vasilios@ucla.edu
PHONE: 310.206.0300
http://www.chemeng.ucla.edu/vasilios-manousiouthakis/
Harold G. Monbouquette, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Biochemical Engineering
• Biosensors
• Nanotechnology
• Neuroengineering

MAJOR RESEARCH AREAS:
• Biomolecular Engineering and Systems Biology
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: harold@seas.ucla.edu
PHONE: 310.825.8946
http://www.chemeng.ucla.edu/harold-monbouquette/

Philip A. Romero, Ph.D.
Assistant Professor

EXPERTISE:
• Protein Engineering
• Droplet-based Microfluidics

MAJOR RESEARCH AREA:
• Molecular and Cellular Bioengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION
EMAIL: philromero@ucla.edu
PHONE: 310.825.8485
http://www.romerolab.org/
Tatiana Segura, Ph.D.

Associate Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Molecular and Cellular Bioengineering
• Gene Therapy
• Tissue Engineering
• Biomaterials
• Biomimetic Materials and Devices
• Nanomaterials
• Therapeutic Angiogenesis

MAJOR RESEARCH AREAS:
• Biomaterials
• Biomolecular Engineering and Systems Biology
• Molecular and Cellular Bioengineering
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: tatiana.segura@ucla.edu
PHONE: 310.206.3980
http://www.chemeng.ucla.edu/tatiana-segura/

Selim M. Senkan, Ph.D.

Professor

EXPERTISE:
• Reaction Engineering
• High-Throughput and Combinatorial Catalysis
• Combustion and Air Pollution
• Energy, Environment and Sustainability

MAJOR RESEARCH AREAS:
• Environmental Engineering
• Semiconductor Manufacturing

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: senkan@seas.ucla.edu
PHONE: 310.206.4106
http://www.chemeng.ucla.edu/selim-senkan/
Dante Simonetti, Ph.D.
Assistant Professor

EXPERTISE:
• Heterogeneous Catalysis
• Adsorptive Separation Processes
• Alternative Energy

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Renewable Energy

CONTACT INFORMATION:
EMAIL: dasimonetti@ucla.edu
PHONE: 310.825.2046
http://www.chemeng.ucla.edu/dante-simonetti/

Yi Tang, Ph.D.
Chancellor’s Professor

OTHER AFFILIATIONS:
Bioengineering, Chemistry and Biochemistry, California NanoSystems Institute

EXPERTISE:
• Molecular and Cellular Bioengineering
• Biosynthesis of Proteins/Polypeptides with Non-natural Amino Acids
• Synthesis of Novel Antibiotics/Antitumor Products

MAJOR RESEARCH AREAS:
• Biomolecular Engineering and Systems Biology
• Molecular and Cellular Bioengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Public Health, Resource Monitoring and Technology

CONTACT INFORMATION:
EMAIL: yitang@seas.ucla.edu
PHONE: 310.825.0375
http://www.chemeng.ucla.edu/yi-tang/
Civil and Environmental Engineering

ADDRESS:
Civil and Environmental Engineering Department
5732 Boelter Hall
Box 951593
Los Angeles, CA 90095-1593

PHONE:
310.825.2471

http://www.cee.ucla.edu/
Mathieu Bauchy, Ph.D.
Assistant Professor

EXPERTISE:
• Amorphous and Cementitious Materials
• Topological Constraints and Rigidity Theory
• Composition/Engineering Properties Relationship for Complex Materials
• Molecular Dynamics and Mesoscale Simulations

MAJOR RESEARCH AREAS:
• Ceramics and Ceramic Processing
• Nanoengineering
• Structural and Solid Mechanics
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Nanoelectronics, Nanoelectronics Materials Processing
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: bauchy@ucla.edu
PHONE: 310.825.2471
http://www.cee.ucla.edu/profile-bauchy/

Scott J. Brandenberg, Ph.D.
Associate Professor

EXPERTISE:
• Earthquake Engineering
• Soil-Structure Interaction
• Liquefaction
• Data Acquisition and Processing
• Numerical Analysis
• Foundation Problems for Buildings and Bridges
• Seismic Levee Stability

MAJOR RESEARCH AREA:
• Geotechnical Engineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Sustainable Infrastructure
• Water

CONTACT INFORMATION:
EMAIL: sjbrandenberg@ucla.edu
PHONE: 310.825.9819
http://www.cee.ucla.edu/profile-Brandenberg/
Henry Burton, Ph.D.
Assistant Professor

EXPERTISE:
• Earthquake Engineering
• Structural Design and Modeling
• Enhanced Seismic Systems
• Performance-Based Engineering
• Community Resilience

MAJOR RESEARCH AREAS:
• Geotechnical Engineering
• Structural Engineering and Mechanics

CONTACT INFORMATION:
EMAIL: hvburton@seas.ucla.edu
PHONE: 310.825.2471
http://www.cee.ucla.edu/profile-Burton/

Mekonnen Gebremichael, Ph.D.
Associate Professor

EXPERTISE:
• Water Systems
• Water Governance
• Understanding and Prediction of Hydrological Fluxes
• Satellite Datasets for Water Resources

MAJOR RESEARCH AREAS:
• Environmental Engineering
• Hydrology and Water Resources

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Public Health, Resource Monitoring and Protection
• Water

CONTACT INFORMATION:
EMAIL: mekonnen@seas.ucla.edu
PHONE: 310.794.4239
http://www.cee.ucla.edu/profile-gebremichael/
Eric M. V. Hoek, Ph.D.
Professor
Samueli Fellow

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Water Treatment
• Wastewater Treatment
• Membrane Technology
• Desalination
• Nanotechnology
• Oil/Water Separations
• Bioseparations

MAJOR RESEARCH AREA:
• Environmental Engineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Renewable Energy
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: emvhoek@ucla.edu
PHONE: 310.206.3735
http://www.cee.ucla.edu/profile-hoek/

Jennifer A. Jay, Ph.D.
Professor

OTHER AFFILIATION:
Institute of the Environment and Sustainability

EXPERTISE:
• Aquatic Chemistry
• Environmental Microbiology
• Contaminant Transport Monitoring

MAJOR RESEARCH AREA:
• Environmental Engineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Public Health, Resource Monitoring and Protection
• Water

CONTACT INFORMATION:
EMAIL: jjay@seas.ucla.edu
PHONE: 310.267.5365
http://www.cee.ucla.edu/profile-Jay/
Jiann-Wen (Woody) Ju, Ph.D.
Professor

EXPERTISE:
• Computational Mechanics and Finite Element Simulations
• Biomechanics
• Mechanics of Composite Materials
• Earthquake Engineering
• Micro- and Nanomechanics
• Cement and Concrete Construction Defects
• Damage Mechanics and Fracture Mechanics
• Bioengineering

MAJOR RESEARCH AREAS:
• Biomaterials
• Ceramics and Ceramic Processing
• Geotechnical Engineering
• Nanoengineering
• Structural and Solid Mechanics
• Structural Engineering and Mechanics
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: juj@seas.ucla.edu
PHONE: 310.206.1751
http://www.c ee.ucla.edu/profile-Ju/

Dennis Lettenmaier, Ph.D.
Distinguished Professor

OTHER AFFILIATION:
Geography

EXPERTISE:
• Hydrologic Modeling and Prediction
• Hydrology-Climate Interactions

MAJOR RESEARCH AREAS:
• Environmental Engineering
• Hydrology and Water Resources

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Public Health, Resource Monitoring and Protection
• Water

CONTACT INFORMATION:
EMAIL: dlettenm@geog.ucla.edu
PHONE: 310.794.4327
http://hydro.ucla.edu/
Shaily Mahendra, Ph.D.
Associate Professor

**OTHER AFFILIATION:**
California NanoSystems Institute

**EXPERTISE:**
- Environmental Microbiology
- Biodegradation of Groundwater Contaminants
- Microbial-nanomaterial Interactions
- Applications of Molecular Biological and Isotopic Tools in Environmental Engineering

**MAJOR RESEARCH AREA:**
- Environmental Engineering

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**
- Public Health, Resource Monitoring and Protection
- Renewable Energy
- Sustainable Infrastructure
- Water

**CONTACT INFORMATION:**
EMAIL: mahendra@seas.ucla.edu
PHONE: 310.794.9850
http://www.cee.ucla.edu/profile-mahendra/

Steven A. Margulis, Ph.D.
Professor

**EXPERTISE:**
- Surface Hydrology
- Hydrometeorology
- Remote Sensing
- Data Assimilation

**MAJOR RESEARCH AREA:**
- Hydrology and Water Resources

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**
- Public Health, Resource Monitoring and Protection
- Renewable Energy
- Sustainable Infrastructure
- Systems, Dynamics and Control
- Water
- Wireless Sensing and Networking

**CONTACT INFORMATION**
EMAIL: margulis@seas.ucla.edu
PHONE: 310.267.5490
http://www.cee.ucla.edu/profile-margulis/
Gaurav Sant, Ph.D.  
Assistant Professor

OTHER AFFILIATION:  
California NanoSystems Institute

EXPERTISE:  
• Cement, Concrete, Ceramics  
• Structure-Property Relations in Porous Media  
• Chemical Thermodynamics

MAJOR RESEARCH AREAS:  
• Biomaterials  
• Ceramics and Ceramic Processing  
• Environmental Engineering  
• Heat and Mass Transfer  
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Sustainable Infrastructure

CONTACT INFORMATION:  
EMAIL: gsant@ucla.edu  
PHONE: 310.206.3084  
http://www.cee.ucla.edu/profile-sant/

Michael K. Stenstrom, Ph.D.  
Distinguished Professor

OTHER AFFILIATION:  
Institute of the Environment and Sustainability

EXPERTISE:  
• Water and Wastewater Management  
• Water Reclamation  
• Stormwater Management

MAJOR RESEARCH AREAS:  
• Environmental Engineering  
• Hydrology and Water Resources

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Water

CONTACT INFORMATION:  
EMAIL: stenstro@seas.ucla.edu  
PHONE: 310.825.1408  
http://www.cee.ucla.edu/profile-stenstrom/
Jonathan P. Stewart, Ph.D.
Professor
Department Chair

EXPERTISE:
• Earthquake Engineering
• Geotechnical Engineering
• Infrastructure Resilience
• Seismic Hazard Characterization: Ground Motions and Ground Failure
• Earth Structures: Dams, Levees, Compacted Fills
• Soil-structure Interaction

MAJOR RESEARCH AREA:
• Geotechnical Engineering

MAJOR CROSS-DISCiplinary RESEARCH AREAS:
• Sustainable Infrastructure
• Water

CONTACT INFORMATION:
EMAIL: jstewart@seas.ucla.edu
PHONE: 310.206.2990
http://www.cee.ucla.edu/profile-stewart/

Keith D. Stolzenbach, Ph.D.
Professor

OTHER AFFILIATION:
Institute of the Environment and Sustainability

EXPERTISE:
• Environmental Fluid Mechanics
• Transport of Pollutants
• Dynamics of Particles

MAJOR RESEARCH AREAS:
• Environmental Engineering
• Hydrology and Water Resources

MAJOR CROSS-DISCiplinary RESEARCH AREAS:
• Public Health, Resource Monitoring and Protection
• Water

CONTACT INFORMATION:
EMAIL: stolzenb@seas.ucla.edu
PHONE: 310.206.7624
http://www.cee.ucla.edu/profile-stolzenbach/
Ertugrul Taciroglu, Ph.D.
Professor

EXPERTISE:
• Computational Structural and Solid Mechanics
• Structural Dynamics
• System Identification and Health Monitoring
• Soil-Structure Interaction
• Finite Element and Mesh-free Methods

MAJOR RESEARCH AREAS:
• Geotechnical Engineering
• Structural and Solid Mechanics
• Structural Engineering and Mechanics
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: etacir@ucla.edu
PHONE: 310.267.4655
http://www.cee.ucla.edu/profile-taciroglu/

Mladen Vucetic, Ph.D.
Professor

EXPERTISE:
• Soil Dynamics
• Ground Response to Earthquakes
• Liquefaction
• Testing and Evaluation of Static and Cyclic Soil Properties

MAJOR RESEARCH AREA:
• Geotechnical Engineering

CONTACT INFORMATION:
EMAIL: vucetic@seas.ucla.edu
PHONE: 310.206.6260
http://www.cee.ucla.edu/profile-vucetic/
John W. Wallace, Ph.D.
Professor

EXPERTISE:
• Earthquake Engineering
• Design Methodologies
• Seismic Evaluation and Retrofit
• Large-scale Testing Laboratory and Field Testing

MAJOR RESEARCH AREA:
• Structural Engineering and Mechanics

CONTACT INFORMATION:
EMAIL: wallace@seas.ucla.edu
PHONE: 310.206.7124
http://www.cee.ucla.edu/profile-wallace/

William W-G. Yeh, Ph.D.
Distinguished Professor
Richard G. Newman AECOM Chair in Civil Engineering

EXPERTISE:
• Optimization of Water Resources Systems

MAJOR RESEARCH AREA:
• Hydrology and Water Resources

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Water

CONTACT INFORMATION:
EMAIL: williamy@seas.ucla.edu
PHONE: 310.825.2300
http://www.cee.ucla.edu/profile-yeh/
Jian Zhang, Ph.D.
Associate Professor

EXPERTISE:
• Earthquake Engineering
• Structural Dynamics and Mechanics
• Seismic Protective Devices and Strategies
• Soil-structure Interaction
• Bridge Engineering

MAJOR RESEARCH AREAS:
• Structural and Solid Mechanics
• Structural Engineering and Mechanics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: zhangj@ucla.edu
PHONE: 310.206.2222
http://www.cee.ucla.edu/profile-zhang/
Computer Science

ADDRESS:
Computer Science Department
4732 Boelter Hall
Box 1596
Los Angeles, CA 90095-1596

PHONE:
310.825.3886

http://www.cs.ucla.edu/
Junghoo (John) Cho, Ph.D.  
Professor

EXPERTISE:
• Databases and Search Engines  
• Web Technologies  
• Information Discovery and Integration

MAJOR RESEARCH AREA:
• Information and Data Management

CONTACT INFORMATION:
EMAIL: cho@cs.ucla.edu  
PHONE: 310.571.8240
http://oak.cs.ucla.edu/~cho/

Tyson Condie, Ph.D.  
Assistant Professor

Symantec Term Chair in Computer Science

EXPERTISE:
• Large-Scale Distributed Systems  
• Declarative Language Design  
• Systems for Machine Learning

MAJOR RESEARCH AREA:
• Information and Data Management

CONTACT INFORMATION:
EMAIL: tcondie@cs.ucla.edu  
PHONE: 310.825.4740
http://clash.cs.ucla.edu/
Jason (Jingsheng) Cong, Ph.D.
Distinguished Professor
Chancellor’s Professor
Director, Center for Domain Specific Computing

OTHER AFFILIATIONS:
Electrical Engineering, California NanoSystems Institute

EXPERTISE:
• Computer System Architecture
• Energy-efficient Computing and Customized Computing
• Clouding Computing
• Big Data Analytics
• Computational Genomics and Medical Image Processing
• Electronic Design Automation
• Design for Nanotechnologies
• Design and Analysis of Algorithms

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics Materials Processing
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: cong@cs.ucla.edu
PHONE: 310.206.2775
http://www.cs.ucla.edu/jason-cong/

Adnan Y. Darwiche, Ph.D.
Professor

EXPERTISE:
• Automated Reasoning (Symbolic and Probabilistic), Machine Learning, and Knowledge Representation
• Applications to Diagnosis and Prediction, Reliability, Planning, Verification, Data Analysis, Medical Informatics

MAJOR RESEARCH AREA:
• Artificial Intelligence

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: darwiche@cs.ucla.edu
PHONE: 310.206.5201
http://web.cs.ucla.edu/~darwiche/
Joseph J. DiStefano III, Ph.D.
Distinguished Professor

OTHER AFFILIATIONS:
David Geffen School of Medicine at UCLA
Chair, Computational & Systems Biology Interdepartmental Program, College of Letters and Science

EXPERTISE:
• Dynamic Systems Biology Modeling and Simulation
• Clinical Therapy and Experiment Design Optimization Methodologies
• Pharmacokinetic (PK), Pharmacodynamic (PD), and Physiologically-based PBPK, PBPK and PBTK (Toxicokinetic) Modeling
• Knowledge-based Systems and Internet-based Software for Life Science Research and Patient Education
• Biocontrol Systems

MAJOR RESEARCH AREA:
• Computational Systems Biology

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL:  joed@cs.ucla.edu
PHONE:  310.825.7482
http://www.cs.ucla.edu/joseph-distefano-iii/
www.biocyb.cs.ucla.edu

Michael G. Dyer, Ph.D.
Professor

EXPERTISE:
• Natural Language Processing
• Connectionist, Cognitive and Animat-based Modeling

MAJOR RESEARCH AREA:
• Artificial Intelligence

CONTACT INFORMATION:
EMAIL:  dyer@cs.ucla.edu
PHONE:  310.825.4033, 310.206.6674
http://www.cs.ucla.edu/michael-g-dyer/
Paul R. Eggert, Ph.D.
Senior Lecturer

EXPERTISE:
• Grid and Cloud Computing
• Programming Languages
• Compilers

MAJOR RESEARCH AREA:
• Software Systems

CONTACT INFORMATION:
EMAIL: eggert@cs.ucla.edu
PHONE: 310.267.2254

Milos D. Ercegovac, Ph.D.
Distinguished Professor

EXPERTISE:
• Digital Computer Arithmetic
• Digital Design
• Low-power Systems
• Reconfigurable Systems

MAJOR RESEARCH AREA:
• Computer System Architecture and CAD

CONTACT INFORMATION:
EMAIL: milos@cs.ucla.edu
PHONE: 310.267.2254
http://web.cs.ucla.edu/~milos/
Jason Ernst, Ph.D.
Assistant Professor

OTHER AFFILIATION:
Biological Chemistry

EXPERTISE:
• Bioinformatics
• Epigenomics
• Gene Regulation
• Computational Biology

MAJOR RESEARCH AREA:
• Computational Systems Biology

CONTACT INFORMATION:
EMAIL: jason.ernst@ucla.edu
PHONE: 310.825.3658
http://www.biolchem.ucla.edu/labs/ernst/

Eleazar Eskin, Ph.D.
Professor

OTHER AFFILIATION:
Human Genetics

EXPERTISE:
• Bioinformatics
• Genetics
• Genomics
• Machine Learning

MAJOR RESEARCH AREA:
• Computational Systems Biology

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: eeskin@cs.ucla.edu
PHONE: 310.594.5112
310.206.4490
http://web.cs.ucla.edu/~eeskin/
Eliezer M. Gafni, Ph.D.
Professor

EXPERTISE:
• Networks
• Mathematical Programming Algorithms

MAJOR RESEARCH AREAS:
• Computer Science Theory
• Network Systems

CONTACT INFORMATION:
EMAIL: eli@cs.ucla.edu
PHONE: 310.825.3211
http://web.cs.ucla.edu/~eli/

Mario Gerla, Ph.D.
Distinguished Professor
Department Chair

EXPERTISE:
• Computer Networks: MAC, Routing and Transport Protocols, Vehicular Communications, Peer-to-Peer Mobile Networks, Personal Area Networks (Bluetooth and ZigBee), Underwater Sensor Networks
• Mobile Cloud Computing
• Intelligent Transport Systems
• Mobile Health
• Content Centric Networks
• Cognitive Radios and Dynamic Spectrum Sharing
• Internet Transport Protocols
• Internet Path Characterization
• Capacity and Bandwidth Estimation
• Models for Network and Protocol Performance Evaluation

MAJOR RESEARCH AREAS:
• Information and Data Management
• Network Systems
• Software Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Cybersecurity
• Healthcare Technologies
• Renewable Energy
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: gerla@cs.ucla.edu
PHONE: 310.825.4367
http://web.cs.ucla.edu/~gerla/
Miryung Kim, Ph.D.
Associate Professor

EXPERTISE:
• Software Engineering
• Software Evolution
• Software Analysis
  Algorithm and Development Tools

MAJOR RESEARCH AREA:
• Software Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Cybersecurity

CONTACT INFORMATION:
EMAIL: miryung@cs.ucla.edu
PHONE: 310.825.3886
http://web.cs.ucla.edu/~miryung/

Richard E. Korf, Ph.D.
Professor

EXPERTISE:
• Problem Solving
• Heuristic Search

MAJOR RESEARCH AREA:
• Artificial Intelligence

CONTACT INFORMATION:
EMAIL: korf@cs.ucla.edu
PHONE: 310.206.5383
http://web.cs.ucla.edu/~korf/
Christopher J. Lee, Ph.D.
Professor

OTHER AFFILIATION:
Chemistry and Biochemistry

EXPERTISE:
• Alternative Splicing and Genome Evolution
• Protein Evolutionary Pathways
• Graph Databases for Bioinformatics and Genomics

MAJOR RESEARCH AREA:
• Computational Systems Biology

CONTACT INFORMATION:
EMAIL: leec@chem.ucla.edu
PHONE: 310.825.7374
http://www.chemistry.ucla.edu/directory/lee-christopher-j

Songwu Lu, Ph.D.
Professor

EXPERTISE:
• Wireless Networking
• Mobile Systems and Services
• Data Center Networking
• Network Security
• Cellular Network Security

MAJOR RESEARCH AREA:
• Network Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Cybersecurity
• Sustainable Infrastructure
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: slu@cs.ucla.edu
PHONE: 310.794.9289
http://web.cs.ucla.edu/~slu/
Raghu Meka, Ph.D.
Assistant Professor

EXPERTISE:
• Theoretical Computer Science
• Complexity Theory
• Learning Theory
• Algorithm Design
• Data Mining
• Machine Learning

CONTACT INFORMATION:
EMAIL: raghum@cs.ucla.edu
PHONE: 310.825.7879
http://www.raghumeka.org/

Todd D. Millstein, Ph.D.
Professor

EXPERTISE:
• Programming Languages
• Program Analysis
• Compilers

MAJOR RESEARCH AREA:
• Software Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Cybersecurity
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: todd@cs.ucla.edu
PHONE: 310.825.5942
http://web.cs.ucla.edu/~todd/
Stanley Osher, Ph.D.
Distinguished Professor

OTHER AFFILIATIONS:
Chemical and Biomolecular Engineering, Electrical Engineering, Mathematics, California NanoSystems Institute

EXPERTISE:
• Methods for Computing Moving Fronts Involving Topological Changes
• Hyperbolic Conservation Laws and Hamilton-Jacobi Equations
• Partial Differential Equations-based Image Processing Techniques
• Optimization Related to Sparsity

MAJOR RESEARCH AREAS:
• Computational Systems Biology
• Graphics and Vision
• Information and Data Management
• Medical Imaging Informatics
• MEMS and Nanotechnology
• Physical and Wave Electronics
• Semiconductor Manufacturing
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics Materials Processing
• Renewable Energy
• Systems, Dynamics and Control
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: sjo@math.ucla.edu
PHONE: 310.825.1758
http://www.math.ucla.edu/~sjo/

Rafail Ostrovsky, Ph.D.
Professor

OTHER AFFILIATION:
Mathematics

EXPERTISE:
• Computer Security
• Cryptography
• Computer Networks
• Randomization
• Network Protocols
• Geometric Algorithms
• Data Mining

MAJOR RESEARCH AREA:
• Computer Science Theory

CONTACT INFORMATION:
EMAIL: rafail@cs.ucla.edu
PHONE: 310.206.5283
http://web.cs.ucla.edu/~rafail/
Jens Palsberg, Ph.D.
Professor

EXPERTISE:
• Compilers
• Embedded Systems
• Programming Languages

MAJOR RESEARCH AREA:
• Software Systems

CONTACT INFORMATION:
EMAIL: palsberg@cs.ucla.edu
PHONE: 310.825.6320
http://web.cs.ucla.edu/~palsberg/

D. Stott Parker, Jr., Ph.D.
Professor

EXPERTISE:
• Data Mining
• Information Modeling
• Database and Knowledge-based Systems
• Scientific Computing
• Visualization
• Biomedical Data Analysis
• Computational Neuroscience

MAJOR RESEARCH AREAS:
• Computational Systems Biology
• Information and Data Management
• Medical Imaging Informatics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: stott@cs.ucla.edu
PHONE: 310.825.6871, 310.825.1322
http://web.cs.ucla.edu/~stott/
Miodrag Potkonjak, Ph.D.
Professor

EXPERTISE:
• System, Physical, Biological and Social Security
• Large Distributed Systems (e.g. Data Centers and Mobile Phone Networks)
• Coordinated Statistical Modeling and Optimization
• Emerging Technologies for Communication and Computation
• Behavioral Research for System Synthesis and Management

MAJOR RESEARCH AREA:
• Computer System Architecture and Computer-Assisted Design (CAD)

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Cybersecurity
• Healthcare Technologies
• Renewable Energy
• Sustainable Infrastructure
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: miodrag@cs.ucla.edu
PHONE: 310.825.0790
http://web.cs.ucla.edu/~miodrag/

Glenn D. Reinman, Ph.D.
Professor

EXPERTISE:
• Microprocessor Design
• Computer System Architecture
• Application-Specific and Reconfigurable Computing
• Parallel and Distributed Computing
• Graphics Architecture

MAJOR RESEARCH AREA:
• Computer Science Theory

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Cybersecurity

CONTACT INFORMATION:
EMAIL: reinman@cs.ucla.edu
PHONE: 310.794.9755
http://web.cs.ucla.edu/~reinman/
Amit Sahai, Ph.D.
Professor
Director, Center for Encrypted Functionalities

EXPERTISE:
• Cryptography
• Encryption
• Authentication
• Computer Science Theory
• Network Security
• Computer Security
• Biometrics
• Applied Mathematics
• Error Correction
• Fault Tolerance

MAJOR RESEARCH AREA:
• Computer Science Theory

MAJOR CROSS-DISCiplinary RESEARCH AREA:
• Cybersecurity

CONTACT INFORMATION:
EMAIL: sahai@cs.ucla.edu
PHONE: 310.267.4982
http://web.cs.ucla.edu/~sahai/

Sriram Sankararaman, Ph.D.
Assistant Professor

EXPERTISE:
• Computational and Statistical Genomics
• Statistical Machine Learning (Probabilistic Graphical Models, Bayesian Statistics)

MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Computational Systems Biology

http://sriramsankararaman.com/
Majid Sarrafzadeh, Ph.D.
Distinguished Professor
Co Director, Wireless Health Institute (WHI)

OTHER AFFILIATION:
Electrical Engineering

EXPERTISE:
• Healthcare Technology
• Computer System Architecture
• Embedded Systems
• VLSI CAD
• Algorithms
• Biomedical Informatics

MAJOR RESEARCH AREAS:
• Circuits and Embedded Systems
• Computer System Architecture and Computer-Assisted Design (CAD)
• Medical Imaging Informatics

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: majid@cs.ucla.edu
PHONE: 310.794.4303
http://web.cs.ucla.edu/~majid/

Fei Sha, Ph.D.
Associate Professor

EXPERTISE:
• Probabilistic Models and Algorithms
• Representation Learning
• Semantic Knowledge
• Intelligent and Autonomous Systems
• Computer Vision
• Personalization of Complex Probabilistic Models

MAJOR RESEARCH AREA:
• Artificial Intelligence

CONTACT INFORMATION:
EMAIL: feisha@cs.ucla.edu
PHONE: 310.825.4033
Alexander Sherstov, Ph.D.
Assistant Professor

EXPERTISE:
• Complexity Theory, Including Communication Complexity and Circuit Complexity
• Computational Learning Theory
• Quantum Computing

MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Computer Science Theory

CONTACT INFORMATION:
EMAIL: sherstov@cs.ucla.edu
PHONE: 310.825.7578
http://www.cs.ucla.edu/~sherstov/

David A. Smallberg, M.S.
Senior Lecturer

EXPERTISE:
• Programming Languages
• Software Development
• Computer Science Education
• Software Comparison

MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Computer Science Theory

CONTACT INFORMATION:
EMAIL: das@cs.ucla.edu
PHONE: 310.267.4665
http://www.computomata.com/consultants/smallberg
Stefano Soatto, Ph.D.
Professor

OTHER AFFILIATION:
Electrical Engineering

EXPERTISE:
• Computer Vision
• Machine Learning
• Robotics
• Visual Recognition, Detection
• 3D Reconstruction
• Sensor Fusion, Inertial Sensing
• Shape Analysis, Motion Analysis, Texture Analysis, Vision-based Control
• Medical Imaging
• Autonomous/Intelligent Vehicles
• Human-Computer Interaction
• Augmented Reality, Virtual Reality
• Tracking, Visual Recognition, Big Data, Machine Learning
• Surveillance, Visual Analytics
• Content-based Image Retrieval

MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Graphics and Vision
• Information and Data Management
• Medical Imaging Informatics
• Signals and Systems
• Systems and Control

CONTACT INFORMATION:
EMAIL: soatto@cs.ucla.edu
PHONE: 310.825.4840
http://web.cs.ucla.edu/~soatto/

Ameet Talwalkar, Ph.D.
Assistant Professor

EXPERTISE:
• Statistical Machine Learning
• Computational Genomics
• Scalable Machine Learning Systems
• Bioinformatics
• Data Science

MAJOR RESEARCH AREAS:
• Computational Systems Biology
• Information and Data Management

CONTACT INFORMATION:
EMAIL: talwalkar@cs.ucla.edu
PHONE: 310.825.3886
http://web.cs.ucla.edu/~ameet/
Yuval Tamir, Ph.D.
Associate Professor

EXPERTISE:
• Parallel and Distributed Systems
• Dependable/Fault-tolerant Systems
• Multiprocessor/Multicore Architectures
• System Software and Middleware
• System-level Virtualization
• Cluster Computing
• On-chip and Off-chip Interconnection Networks

MAJOR RESEARCH AREA:
• Computer System Architecture and Computer-Assisted Design (CAD)
• Network Systems
• Software Systems

CONTACT INFORMATION:
EMAIL: tamir@cs.ucla.edu
PHONE: 310.206.2852
http://web.cs.ucla.edu/~tamir/

Demetri Terzopoulos, Ph.D.
Distinguished Professor
Chancellor’s Professor

EXPERTISE:
• Computer Graphics
• Computer Vision
• Medical Image Analysis
• Computer-Aided Design
• Artificial Intelligence/Life

MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Computer System Architecture and Computer-Assisted Design (CAD)
• Graphics and Vision
• Medical Imaging Informatics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: dt@cs.ucla.edu
PHONE: 310.206.6946
http://web.cs.ucla.edu/~dt/
Guy Van den Broeck, Ph.D.
Assistant Professor
Samueli Fellow

EXPERTISE:
• Machine Learning (Statistical Relational Learning)
• Knowledge Representation and Reasoning (Graphical Models, Lifted Probabilistic Inference)
• Applications of Probabilistic Reasoning and Learning (Probabilistic Programming, Probabilistic Databases)

MAJOR RESEARCH AREA:
• Artificial Intelligence

CONTACT INFORMATION:
EMAIL: guyvdb@cs.ucla.edu
http://guyvandenbroeck.com

Wei Wang, Ph.D.
Professor

EXPERTISE:
• Data Mining
• Bioinformatics
• Database Systems

MAJOR RESEARCH AREAS:
• Computational Systems Biology
• Information and Data Management

CONTACT INFORMATION:
EMAIL: weiwang@cs.ucla.edu
PHONE: 310.794.0009
http://web.cs.ucla.edu/~weiwang/
Alan Yuille, Ph.D.
Professor

OTHER AFFILIATIONS:
Statistics, Psychology

EXPERTISE:
• Computer Vision
• Bayesian Statistics
• Pattern Recognition

MAJOR RESEARCH AREA:
• Graphics and Vision

CONTACT INFORMATION:
EMAIL: yuille@stat.ucla.edu
PHONE: 310 267-5383
http://www.stat.ucla.edu/~yuille/

Carlo A. Zaniolo, Ph.D.
Professor

Norman E. Friedmann Chair in Knowledge Sciences

EXPERTISE:
• Data Stream Management Systems
• Archival Systems and Temporal DBs
• Mining Databases and Data Streams
• Web Information Systems and Semantic Web
• Information System Evolution
• Deductive DBs and Knowledge Bases
• Nonmonotonic Reasoning

MAJOR RESEARCH AREA:
• Information and Data Management

CONTACT INFORMATION:
EMAIL: zaniolo@cs.ucla.edu
PHONE: 310.825.8137
http://web.cs.ucla.edu/~zaniolo/
Lixia Zhang, Ph.D.
Professor
Jonathan B. Postel Chair in Computer Science
Lead PI, Named Data Networking Project
EXPERTISE:
• Internet Architecture and Protocol Designs
• Security and Resiliency of Large-Scale Systems
MAJOR RESEARCH AREAS:
• Information and Data Management
• Network Systems
• Software Systems
CONTACT INFORMATION:
EMAIL: lixia@cs.ucla.edu
PHONE: 310.825.2695
http://web.cs.ucla.edu/~lixia/

Song Chun Zhu, Ph.D.
Professor
OTHER AFFILIATION: Statistics
EXPERTISE:
• Computer Vision
• Machine Learning
• Cognition
• Visual Arts
• Statistical Modeling
• MCMC Computing
• Robot Autonomy
MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Graphics and Vision
CONTACT INFORMATION:
EMAIL: sczhu@stat.ucla.edu
PHONE: 310-206-8693
http://web.cs.ucla.edu/~sczhu/
Electrical Engineering

ADDRESS:
Electrical Engineering Department
56-125B Engineering IV
Box 951594
Los Angeles, CA 90095-1594

PHONE:
310.825.2647

http://www.ee.ucla.edu/
Asad A. Abidi, Ph.D.
Distinguished Professor
Chancellor’s Professor

EXPERTISE:
• High-performance Analog Electronics
• Device Modeling

MAJOR RESEARCH AREA:
• Circuits and Embedded Systems

CONTACT INFORMATION:
EMAIL: abidi@ee.ucla.edu
PHONE: 310.825.9490
http://www.ee.ucla.edu/asad-abidi/

Abeer Alwan, Ph.D.
Professor

EXPERTISE:
• Digital Speech Processing
• Noise Robust Speech Recognition
• Models of Speech Production and Perception

MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Information and Data Management
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Systems, Dynamics and Control
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: alwan@ee.ucla.edu
PHONE: 310.206.2231
http://www.ee.ucla.edu/abeer-alwan/
Katsushi Arisaka, Ph.D.
Professor

OTHER AFFILIATIONS:
Physics and Astronomy, California NanoSystems Institute

EXPERTISE:
• High-speed Single Photon Detection and Digitization
• Photon Detection Systems in Bio-imaging and Particle Physics

MAJOR RESEARCH AREA:
• Physical and Wave Electronics

CONTACT INFORMATION:
EMAIL: arisaka@physics.ucla.edu
PHONE: 310.825.4925
http://www.ee.ucla.edu/katsushi-arisaka/

Danijela Cabric, Ph.D.
Associate Professor
Samueli Fellow

EXPERTISE:
• Wireless Communications System Design
• Cognitive Radio Networks
• VLSI Architectures of Signal Processing and Digital Communications
• Performance Analysis and Experiments on Embedded Platforms

MAJOR RESEARCH AREA:
• Circuits and Embedded Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: danijela@ee.ucla.edu
PHONE: 310.206.8856
http://www.ee.ucla.edu/danijela-cabric/
Robert Candler, Ph.D.
Assistant Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• MEMS and Nanoscale Devices
• Fundamental Limitations of Sensors
• Micromagnetic Devices for Advanced Light Sources
• Biomedical Devices

MAJOR RESEARCH AREAS:
• Biomedical Devices
• MEMS and Nanotechnology
• Nanoengineering
• Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics Materials Processing
• Systems, Dynamics and Control
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: rcandler@ee.ucla.edu
PHONE: 310.825.4161
http://www.ee.ucla.edu/robert-candler/

M.C. Frank Chang, Ph.D.
Distinguished Professor
Wintek Chair in Electrical Engineering

EXPERTISE:
• High-speed Semiconductor Devices
• Integrated Circuits for Digital, Analog, Microwave, MM-Wave Terahertz Systems
• RF/Wireless Interconnects

MAJOR RESEARCH AREAS:
• Circuits and Embedded Systems
• Medical Imaging Informatics
• Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: mfchang@ee.ucla.edu
PHONE: 310.794.1633
http://www.ee.ucla.edu/m-c-frank-chang/
Chi On Chui, Ph.D.
Associate Professor

OTHER AFFILIATIONS:
Bioengineering, California NanoSystems Institute

EXPERTISE:
• Semiconductor Devices and Manufacturing
• Biomedical Electronics
• Heterogeneous Integration and Systems
• Exploratory Nanotechnology

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Physical and Wave Electronics
• Semiconductor Manufacturing

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics Materials Processing

CONTACT INFORMATION:
EMAIL: chui@ee.ucla.edu
PHONE: 310.267.4786
http://www.ee.ucla.edu/chi-on-chui/

Samuel Coogan, Ph.D.
Assistant Professor

EXPERTISE:
• Control Theory
• Cyber-physical Systems
• Formal Methods
• Transportation Systems

MAJOR RESEARCH AREAS:
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Systems, Dynamics and Control
Babak Daneshrad, Ph.D.
Professor

EXPERTISE:
• MIMO Enabled Wireless Networks
• Experimental Wireless
• VLSI Architectures for Wireless Systems
• Digital VLSI and Integrated Circuits for Wireless Applications

MAJOR RESEARCH AREA:
• Circuits and Embedded Systems

CONTACT INFORMATION:
EMAIL: babak@ee.ucla.edu
PHONE: 310.825.7792
http://www.ee.ucla.edu/babak-daneshrad/

Suhas Diggavi, Ph.D.
Professor

EXPERTISE:
• Information Theory
• Wireless Networks
• Cooperative Information Flow Over Wireless Networks
• Network Data Compression
• Network Secrecy
• Large-scale Data Analysis Algorithms

MAJOR RESEARCH AREA:
• Signals and Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Cybersecurity
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: suhas@ee.ucla.edu
PHONE: 310.206.5171
http://www.ee.ucla.edu/suhas-diggavi/
Lara Dolecek, Ph.D.
Professor

OTHER AFFILIATION:
Mathematics

EXPERTISE:
• Information and Coding Theory
• Graphical Models and Statistical Algorithms
• Computational Methods and Algorithms with Applications to Large-scale and Complex Systems for Data Processing, Communications and Storage

MAJOR RESEARCH AREA:
• Signals and Systems

CONTACT INFORMATION:
EMAIL: doleckek@ee.ucla.edu
PHONE: 310.825.2108
http://www.ee.ucla.edu/lara-dolecek/

Christina Fragouli, Ph.D.
Associate Professor

EXPERTISE:
• Network Coding
• Algorithms for Networking
• Wireless Networks
• Network Security

MAJOR RESEARCH AREAS:
• Network Systems
• Signals and Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Cybersecurity
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: christina.fragouli@ucla.edu
PHONE: 310.206.8795
http://www.ee.ucla.edu/christina-fragouli/
Puneet Gupta, Ph.D.
Associate Professor

EXPERTISE:
• Design-technology Co-optimization
• Circuits, Architectures and System Software for Reliability and Variability-immunity

MAJOR RESEARCH AREAS:
• Circuits and Embedded Systems
• Computer System Architecture and Computer-Assisted Design (CAD)

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Nanoelectronics, Nanoelectronics Materials Processing

CONTACT INFORMATION:
EMAIL: puneet@ee.ucla.edu
PHONE: 310.825.1376
http://www.ee.ucla.edu/puneet-gupta/

Lei He, Ph.D.
Professor

EXPERTISE:
• Renewable Energy and Sustainable Infrastructure
• VLSI Circuits and Systems
• Field Programmable Logic
• Cloud Software and Embedded Software
• Internet of Things for Water, HVAC, and Electric Vehicles

MAJOR RESEARCH AREAS:
• Circuits and Embedded Systems
• Computer System Architecture and CAD
• Environmental Engineering
• Hydrology and Water Resources
• Information and Data Management
• Manufacturing and Design
• Software Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Cybersecurity
• Renewable Energy
• Sustainable Infrastructure
• Water
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: lhe@ee.ucla.edu
PHONE: 310.206.2037
http://www.ee.ucla.edu/lei-he/
Diana Huffaker, Ph.D.
Professor

OTHER AFFILIATIONS:
California NanoSystems Institute, Institute of the Environment and Sustainability

EXPERTISE:
• Solid-state Nanotechnology
• Plasmonically-coupled Processes
• Optoelectronic Devices
• Solar Cell
• Si Photonics
• Novel Materials

MAJOR RESEARCH AREA:
• Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Renewable Energy
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: huffaker@ee.ucla.edu
PHONE: 310.825.9786
http://www.ee.ucla.edu/diana-huffaker/

Tatsuo Itoh, Ph.D.
Distinguished Professor
Northrop Grumman Chair in Electrical Engineering

EXPERTISE:
• Electromagnetics
• Guided Wave Structures
• Lower-power Wireless Electronics
• Integrated Passive Components and Antennas
• Photonic Bandgap Structures and Metamaterial Applications
• Active Integrated Antennas
• RF Technologies for Reconfigurable Front-ends
• Sensors and Transponders

MAJOR RESEARCH AREA:
• Physical and Wave Electronics

CONTACT INFORMATION:
EMAIL: itoh@ee.ucla.edu
PHONE: 310.206.4820
http://www.ee.ucla.edu/tatsuo-itoh/
Subramanian Iyer Ph.D.
Distinguished Professor
Chancellor’s Professor

EXPERTISE:
- Systems Scaling Technology
- Memory Integration
- Neuromorphic Computing

MAJOR RESEARCH AREAS:
- Circuits and Embedded Systems
- Semiconductor Manufacturing

CONTACT INFORMATION:
EMAIL:  s.s.iyer@ucla.edu
PHONE:  310.825.6913
http://www.ee.ucla.edu/subramanian-s-iyer/

Bahram Jalali, Ph.D.
Professor
Northrop Grumman Opto-Electronic Chair in Electrical Engineering

OTHER AFFILIATIONS:
Bioengineering, Surgery, California NanoSystems Institute

EXPERTISE:
- Silicon Photonics and Fiber Optic Communication
- Real-time Streaming Data Acquisition and Processing
- Biophotonics, Rare Cell Detection, Blood Screening
- Nondestructive Material Testing and Characterization
- Rogue Wave Phenomena

MAJOR RESEARCH AREAS:
- Biomedical Devices
- Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
- Healthcare Technologies
- Public Health, Resource Monitoring and Protection

CONTACT INFORMATION:
EMAIL:  jalali@ee.ucla.edu
PHONE:  310.825.9655
http://www.ee.ucla.edu/bahram-jalali/
Mona Jarrahi, Ph.D.  
Associate Professor

EXPERTISE:
• Terahertz/Millimeter-wave Electronics and Optoelectronics
• Microwave Photonics
• Imaging and Spectroscopy Systems

MAJOR RESEARCH AREA:
• Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: mjarrahi@ee.ucla.edu
PHONE: 310.825.9095
http://www.ee.ucla.edu/mona-jarrahi/

Chandrashkekar J. Joshi, Ph.D.  
Distinguished Professor

EXPERTISE:
• Laser Fusion
• Laser Acceleration of Particles
• Nonlinear Optics
• High-power Lasers
• Plasma Physics

MAJOR RESEARCH AREA:
• Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Systems, Dynamics and Control
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: joshi@ee.ucla.edu
PHONE: 310.825.7279
http://www.ee.ucla.edu/chandrashekhar-joshi/
William J. Kaiser, Ph.D.
Professor
Co-Director, Wireless Health Institute (WHI)

EXPERTISE:
• Wireless Health
• Wireless Networked Sensors
• Embedded Systems

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Circuits and Embedded Systems
• Computer System Architecture and CAD
• Information and Data Management

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: kaiser@ee.ucla.edu
PHONE: 310.206.3236
http://www.ee.ucla.edu/william-kaiser/

Alan J. Laub, Ph.D.
Distinguished Professor

OTHER AFFILIATION:
Mathematics

EXPERTISE:
• Numerical Linear Algebra
• High-Performance Computing

MAJOR RESEARCH AREAS:
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: laub@ucla.edu
PHONE: 310.825.4245
http://www.ee.ucla.edu/alan-laub/
Jia-Ming Liu, Ph.D.
Professor

EXPERTISE:
- Nonlinear Optics
- Ultrafast Optics
- Laser Dynamics and Chaos
- Semiconductor Lasers
- Optoelectronics
- Photonics
- Nonlinear and Ultrafast Processes

MAJOR RESEARCH AREAS:
- Electrical and Optical Materials
- Nanoengineering
- Physical and Wave Electronics

CONTACT INFORMATION:
EMAIL: liu@ee.ucla.edu
PHONE: 310.206.2097
http://www.ee.ucla.edu/jia-ming-liu/

Dejan Markovic, Ph.D.
Professor

EXPERTISE:
- Integrated Circuits for Emerging Radio and Healthcare Systems
- Energy-efficient Flexible Digital Integrated Circuits
- Circuit and Architecture Design with Post-CMOS Devices
- Optimization Methods and CAD Flows

MAJOR RESEARCH AREAS:
- Biomedical Devices
- Circuits and Embedded Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
- Healthcare Technologies
- Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: dejan@ee.ucla.edu
PHONE: 310.825.8656
http://www.ee.ucla.edu/dejan-markovic/
Ankur Mehta, Ph.D.
Assistant Professor

EXPERTISE:
• Printable Robotics
• Rapid design and Fabrication
• Control Systems
• Wireless Sensor Networks

MAJOR RESEARCH AREAS:
• Network Systems
• Manufacturing and Design
• Circuits and Embedded Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Wireless Sensing and Networking
• Systems, Dynamics and Control

http://people.csail.mit.edu/mehtank/

Warren Mori, Ph.D.
Professor

OTHER AFFILIATIONS:
Physics and Astronomy

EXPERTISE:
• Plasma Physics
• High Energy Density Plasma Science
• High Performance Computing

MAJOR RESEARCH AREA:
• Physical and Wave Electronics

CONTACT INFORMATION:
EMAIL: mori@physics.ucla.edu
PHONE: 310.206.0372
http://www.ee.ucla.edu/warren-b-mori/
Thomas S. Otis, Ph.D.
Professor

**OTHER AFFILIATION:** Neurobiology

**EXPERTISE:**
- Cellular and Molecular Aspects of Neural Signaling
- Electrophysiology
- Optical Imaging of Single Neurons

**MAJOR RESEARCH AREA:**
- Physical and Wave Electronics

**MAJOR CROSS-DISCIPLINARY RESEARCH AREA:**
- Healthcare Technologies

**CONTACT INFORMATION:**
- EMAIL: otis@seas.ucla.edu
- PHONE: 310.206.0746
- [http://www.ee.ucla.edu/thomas-otis/](http://www.ee.ucla.edu/thomas-otis/)

Aydogan Ozcan, Ph.D.
Chancellor’s Professor

**OTHER AFFILIATIONS:** Bioengineering, Surgery, California NanoSystems Institute

**EXPERTISE:**
- Bioimaging
- Nano-photonics
- Nonlinear Optics

**MAJOR RESEARCH AREAS:**
- Biomedical Devices
- Electrical and Optical Materials
- Medical Imaging Informatics
- Nanoengineering
- Physical and Wave Electronics

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**
- Healthcare Technologies
- Public Health, Resource Monitoring and Protection
- Sustainable Infrastructure
- Water
- Wireless Sensing and Networking

**CONTACT INFORMATION:**
- EMAIL: ozcan@ucla.edu
- PHONE: 310.825.0915
- [http://www.ee.ucla.edu/aydogan-ozcan/](http://www.ee.ucla.edu/aydogan-ozcan/)
Sudhakar Pamarti, Ph.D.
Associate Professor

EXPERTISE:
• Analog, Mixed Signal and RF IC Design
• Signal Processing

MAJOR RESEARCH AREA:
• Circuits and Embedded Systems

CONTACT INFORMATION:
EMAIL: spamarti@ee.ucla.edu
PHONE: 310.825.2657
http://www.ee.ucla.edu/sudhakar-pamarti/

C. Kumar Patel, Ph.D.
Distinguished Professor

OTHER AFFILIATIONS:
Physics and Astronomy, Chemistry and Biochemistry

EXPERTISE:
• Quantum Electronics
• Nonlinear Optics
• Photo-acoustics in Gases, Liquids and Solids
• Ultra-low Level Detection of Trace Gases
• Chemical and Toxic Gas Sensors
• Condensed Matter

MAJOR RESEARCH AREAS:
• Electrical and Optical Materials
• Physical and Wave Electronics
• Semiconductor Manufacturing

CONTACT INFORMATION:
EMAIL: patel@physics.ucla.edu
PHONE: 310.794.1613
http://www.pa.ucla.edu/directory/c-kumar-patel
Gregory J. Pottie, Ph.D.
Professor
Department Chair

**EXPERTISE:**
• Communications/Telecommunications
• Biomedical Informatics
• Sensor Networks

**MAJOR RESEARCH AREAS:**
• Information and Data Management
• Network Systems
• Signals and Systems

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**
• Healthcare Technologies
• Wireless Sensing and Networking

**CONTACT INFORMATION:**
EMAIL: pottie@ee.ucla.edu
PHONE: 310.825.8150
http://www.ee.ucla.edu/gregory-pottie/

Yahya Rahmat-Samii, Ph.D.
Distinguished Professor
Northrop Grumman Chair in Electrical Engineering/Electromagnetics

**EXPERTISE:**
• Satellite Communication Antennas
• Personal Communication Antennas Including Human Interaction
• Biotelemetry and RFID Applications
• Antennas for Remote Sensing and Radio Astronomy Applications
• Advanced Numerical and Optimization Techniques in Electromagnetics
• Frequency Selective Surfaces and Reflectarrays
• Electromagnetic Band Gap structures and Metamaterials
• Novel Integrated and Fractal antennas
• Near-field Antenna Measurements and Diagnostic Techniques
• Electromagnetics

**MAJOR RESEARCH AREAS:**
• Biomedical Devices
• Nanoengineering
• Physical and Wave Electronics

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics Materials Processing
• Wireless Sensing and Networking

**CONTACT INFORMATION:**
EMAIL: rahmat@ee.ucla.edu
PHONE: 310.206.2275
http://www.ee.ucla.edu/yahya-rahmat-samii/
Behzad Razavi, Ph.D.
Chancellor’s Professor

EXPERTISE:
• Analog, RF, Mixed-signal Integrated Circuit Design
• Dual-standard RF Transceivers
• Phase-locked Systems and Frequency Synthesizers
• A/D and D/A Converters
• High-speed Data Communication Circuits

MAJOR RESEARCH AREA:
• Circuits and Embedded Systems

CONTACT INFORMATION:
EMAIL: razavi@ee.ucla.edu
PHONE: 310.206.1633
http://www.ee.ucla.edu/behzad-razavi/

Vwani P. Roychowdhury, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Communications/Telecommunications
• Quantum Computation and Information Processing
• Embedded Systems
• Adaptive and Learning Algorithms
• Nonparametric Methods and Algorithms for Large-scale Information Processing
• Combinatorics and Complexity
• Information Theory
• Biomedical Informatics

MAJOR RESEARCH AREA:
• Signals and Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics Materials Processing

CONTACT INFORMATION:
EMAIL: vwani@ee.ucla.edu
PHONE: 310.206.4975
http://www.ee.ucla.edu/vwani-p-roychowdhury/
Izhak Rubin, Ph.D.  
Distinguished Professor

EXPERTISE:
• Communications/Telecommunications  
• Computer Networks  
• Multimedia IP Networks  
• UAV/UGV-aided Network  
• Integrated System and Network Management  
• Autonomous Networked Vehicle Transportation and Highway Systems  
• Multimedia Networking and Streaming Over Cellular Wireless Networks  
• Network Simulations and Analysis

MAJOR RESEARCH AREAS:
• Information and Data Management  
• Network Systems  
• Signals and Systems  
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Systems, Dynamics and Control  
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: rubin@ee.ucla.edu  
PHONE: 310.825.2326  
http://www.ee.ucla.edu/izhak-rubin/

Henry Samueli, Ph.D.  
Professor

EXPERTISE:
• VLSI Implementation of Signal Processing and Digital Communication Systems  
• High-speed Digital Integrated Circuits  
• Digital Filter Design

MAJOR RESEARCH AREA:
• Circuits and Embedded Systems

CONTACT INFORMATION:
EMAIL: samueli@icsl.ucla.edu  
PHONE: 310.825.2647  
http://www.ee.ucla.edu/henry-samueli/
Ali H. Sayed, Ph.D.
Distinguished Professor

EXPERTISE:
• Adaptation and Learning Theories
• Statistical Signal Processing
• Filtering and Estimation Theories
• Multi-Agent Networks
• Network Science

MAJOR RESEARCH AREAS:
• Network Systems
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Systems, Dynamics and Control
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: sayed@ee.ucla.edu
PHONE: 310.267.2142
http://www.ee.ucla.edu/ali-h-sayed/

Mani B. Srivastava, Ph.D.
Professor

OTHER AFFILIATION:
Computer Science

EXPERTISE:
• Wireless Networking
• Embedded Computing
• Cyber-Physical Systems
• Sensor Networks
• Mobile and Ubiquitous Computing
• Low-power and Power-aware Systems
• Security and Privacy for IoT and CPS
• Mobile Health
• Internet of Things (IoT)
• Network Science

MAJOR RESEARCH AREAS:
• Circuits and Embedded Systems
• Network Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Sustainable Infrastructure
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: mbs@ee.ucla.edu
PHONE: 310.267.2098
http://www.ee.ucla.edu/mani-srivastava/
Oscar M. Stafsudd, Ph.D.  
Professor  

EXPERTISE:  
• Quantum Electronics  
• Solid State Lasers and Laser Media  
• Infrared Detectors (Semiconductor and Pyroelectric)  
• Optoelectronics  
• Terahertz Devices and Systems  
• Crystal Growth  
• Photovoltaics  
• Optical Applications for Medical Use  

MAJOR RESEARCH AREAS:  
• Biomedical Devices  
• Electrical and Optical Materials  
• Medical Imaging Informatics  
• Physical and Wave Electronics  

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:  
• Healthcare Technologies  
• Renewable Energy  

CONTACT INFORMATION:  
EMAIL: stafsudd@seas.ucla.edu  
PHONE: 310.825.4360  
http://www.ee.ucla.edu/oscar-stafsudd/  

Paulo Tabuada, Ph.D.  
Professor  

EXPERTISE:  
• Cyber-physical Systems  
• Cyber-physical Systems Security  
• Control Systems  
• Smart Grid  

MAJOR RESEARCH AREAS:  
• Circuits and Embedded Systems  
• Signals and Systems  
• Systems and Control  

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Systems, Dynamics and Control  

CONTACT INFORMATION:  
EMAIL: tabuada@ee.ucla.edu  
PHONE: 310.794.4266  
http://www.ee.ucla.edu/paulo-tabuada/
Lieven Vandenberghe, Ph.D.
Professor

OTHER AFFILIATIONS:
Computer Science, Mathematics

EXPERTISE:
• Engineering Optimization
• System Theory and Control
• Signal Processing
• Machine Learning

MAJOR RESEARCH AREAS:
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: vandenbe@ee.ucla.edu
PHONE: 310.206.1259
http://www.ee.ucla.edu/lieven-vandenberghe/

Mihaela van der Schaar, Ph.D.
Chancellor’s Professor

EXPERTISE:
• Machine Learning
• Artificial Intelligence
• Healthcare Informatics
• Big Data and Stream Mining
• Network Science
• Game Theory
• Societal, Social and Expert Networks
• Reputation Systems
• Wireless Communications and Networking
• Multimedia

MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Information and Data Management
• Network Systems
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Public Health, Resource Monitoring and Protection
• Renewable Energy
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: mihaela@ee.ucla.edu
PHONE: 310.825.5843
http://www.ee.ucla.edu/mihaela-vander-schaar/
John D. Villasenor, Ph.D.  
Professor  
OTHER AFFILIATIONS:  
Public Policy, Anderson School of Management  
EXPERTISE:  
• Electronics Supply Chain  
• Digital Media  
• Technology and Public Policy  
• Intellectual Property  
• Communications  
• Networking  
MAJOR RESEARCH AREA:  
• Signals and Systems  
MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Cybersecurity  
CONTACT INFORMATION:  
EMAIL: villa@ee.ucla.edu  
PHONE: 310.825.0028, 310.206.3416  
http://www.ee.ucla.edu/john-villasenor/  

Kang L. Wang, Ph.D.  
Distinguished Professor  
Raytheon Chair in Electrical Engineering  
Director, Western Institute of Nanotechnology on Green Engineering and Metrology (WIN-GEM)  
Director, Center of Excellence for Green Nanotechnologies (CEGN)  
OTHER AFFILIATIONS:  
Materials Science and Engineering, California NanoSystems Institute  
EXPERTISE:  
• Nanoelectronics  
• Spintronics and Nanomagnetics  
• Non-volatile Electronics and Low Dissipation Devices  
• Complex Dynamics of Nanosystems  
• Quantum Physics Device and Systems  
• Frontier Materials by Molecular Beam Epitaxy  
• Photonics and Energy  
• Neural Technologies  
MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Nanoelectronics, Nanoelectronics Materials Processing  
CONTACT INFORMATION:  
EMAIL: wang@ee.ucla.edu  
PHONE: 310.825.1609, 310.825.7626  
http://www.ee.ucla.edu/kang-wang/
Yuanxun Ethan Wang, Ph.D.
Associate Professor

EXPERTISE:
• Smart Antennas
• RF and Microwave Power Amplifiers
• Numerical Techniques
• DSP Techniques for Microwave Systems
• Phased Arrays
• Wireless and Radar Systems
• Electromagnetics

MAJOR RESEARCH AREAS:
• Circuits and Embedded Systems
• Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: ywang@ee.ucla.edu
PHONE: 310.206.5670, 310.206.4304
http://www.ee.ucla.edu/yuanxun-ethan-wang/

Richard D. Wesel, Ph.D.
Professor
Associate Dean of Academic and Student Affairs

EXPERTISE:
• Information Theory/Communication Theory
• Communication with Feedback
• Coding and Optimization for Flash Memory
• Optimization of Communication Systems
• Low-density Parity-check Codes and Turbo Codes
• Trellis Codes and Convolutional Codes

MAJOR RESEARCH AREA:
• Signals and Systems

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: wesel@ee.ucla.edu
PHONE: 310.267.2150, 310.825.2941
http://www.ee.ucla.edu/richard-wesel/
Benjamin Williams, Ph.D.
Associate Professor
Samueli Fellow

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Terahertz and Mid-infrared Photonics
• Quantum Cascade Lasers
• Low-dimensional Semiconductor
• Materials and Intersubband Physics
• Terahertz and Infrared Plasmonics,
  Antennas, and Metamaterials

MAJOR RESEARCH AREAS:
• Electrical and Optical Materials
• MEMS and Nanotechnology
• Physical and Wave Electronics

CONTACT INFORMATION:
EMAIL: bwilliam@ee.ucla.edu
PHONE: 310.825.6961, 310.206.4304
http://www.ee.ucla.edu/benjamin-williams/

Chee Wei Wong, D.Sc.
Associate Professor

EXPERTISE:
• Nonlinear Optics
• Quantum Optics
• Ultrafast Optics
• Precision Measurements

MAJOR RESEARCH AREAS:
• Electrical and Optical Materials
• Manufacturing and Design
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Nanoelectronics, Nanoelectronics Materials Processing

CONTACT INFORMATION:
EMAIL: cheewei@seas.ucla.edu
PHONE: 310.825.6115
http://www.ee.ucla.edu/chee-wei-wong/
Jason C.S. Woo, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Solid State Electronics
• CMOS and Bipolar Device/Circuit Optimization
• Novel Device Design
• Modeling of Integrated Circuits
• VLSI Fabrication

MAJOR RESEARCH AREA:
• Physical and Wave Electronics

CONTACT INFORMATION:
EMAIL:  woo@ee.ucla.edu
PHONE:  310.206.3279, 310.794.4077
http://www.ee.ucla.edu/jason-woo/

C.-K. Ken Yang, Ph.D.
Professor

EXPERTISE:
• High Performance VLSI Design
• Digital and Mixed-signal Circuit Design

MAJOR RESEARCH AREA:
• Circuits and Embedded Systems

CONTACT INFORMATION:
EMAIL:  yang@ee.ucla.edu
PHONE:  310.206.3665; 310.825.7412
http://www.ee.ucla.edu/chih-kong-ken-yang/
Materials Science and Engineering

ADDRESS:
Materials Science and Engineering Department
3111 Engineering V
Box 1595
Los Angeles, CA 90095-1595

PHONE:
310.825.8916

http://www.mse.ucla.edu/
Russel E. Caflisch, Ph.D.
Distinguished Professor

OTHER AFFILIATIONS:
Institute for Pure and Applied Mathematics, Mathematics, California NanoSystems Institute

EXPERTISE:
• Epitaxial Growth
• Nanoscale Systems
• Kinetics of Nonequilibrium Plasmas
• Fluid Dynamics
• Computational Finance

MAJOR RESEARCH AREAS:
• Fluid Mechanics
• Structural Materials

CONTACT INFORMATION:
EMAIL: caflisch@ipam.ucla.edu
PHONE: 310.983.3297
http://www.math.ucla.edu/~caflisch/

Bruce S. Dunn, Ph.D.
Distinguished Professor
Nippon Sheet Glass Company Chair in Materials Science

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Solid Electrolytes
• Electrical Properties of Ceramics and Glasses
• Ceramics
• Electronic and Optical Materials
• Batteries
• Electrochemical Materials

MAJOR RESEARCH AREAS:
• Ceramics and Ceramic Processing
• Electrical and Optical Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Renewable Energy

CONTACT INFORMATION:
EMAIL: bdunn@ucla.edu
PHONE: 310.825.1519, 310.825.5534
http://www.mse.ucla.edu/faculty/dunn/
Mark S. Goorsky, Ph.D.
Professor

EXPERTISE:
• Materials Integration and Wafer Bonding
• Single Crystal Layer Transfer Techniques
• High Speed Electronic Materials and Device Integration
• Optoelectronic Materials and Devices, Including Solar Cells and Light Emitters
• Epitaxial Semiconductor and Device Structures
• Ceramics and Single Crystals for Laser Optics

MAJOR RESEARCH AREAS:
• Ceramics and Ceramic Processing
• Electrical and Optical Materials

CONTACT INFORMATION:
EMAIL: goorsky@seas.ucla.edu
PHONE: 310.206.0267
http://www.mse.ucla.edu/faculty/goorsky/

Yu Huang, Ph.D.
Professor
Samueli Fellow

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Nanomaterial Fabrication and Development
• Bio-nano Structures
• Biosystems

MAJOR RESEARCH AREAS:
• Electrical and Optical Materials
• Nanoengineering
• Semiconductor Manufacturing

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Renewable Energy

CONTACT INFORMATION:
EMAIL: yhuang@seas.ucla.edu
PHONE: 310.794.9589
http://www.mse.ucla.edu/faculty/huang/
http://yhuang.seas.ucla.edu
Ioanna Kakoulli, D.Phil
Professor

EXPERTISE:
• Conservation IDP Expertise
• Chemical and Physical Properties of Inorganic Archaeological Materials
• Alteration Processes in Archaeological Vitreous Materials and Pigments
• Conservation Science and Archaeometry
• Forensic Materials Engineering in Art and Archaeology
• Biomimetic Inorganic Mineral Treatments in Archaeological Conservation

MAJOR RESEARCH AREAS:
• Ceramics and Ceramic Processing
• Structural Materials

CONTACT INFORMATION:
EMAIL: kakoulli@ucla.edu
PHONE: 310.794.4915
http://www.mse.ucla.edu/kakoulli/

Richard Kaner, Ph.D.
Distinguished Professor

OTHER AFFILIATIONS:
Chemistry and Biochemistry, California NanoSystems Institute

EXPERTISE:
• Superhard Metals
• Nanostructured Conducting Polymers and Oil/Water Separation Membranes
• Graphene: Synthesis, Characterization and Use in Supercapacitors

MAJOR RESEARCH AREAS:
• Ceramics and Ceramic Processing
• Electrical and Optical Materials
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Renewable Energy
• Water

CONTACT INFORMATION:
EMAIL: rbk@chem.ucla.edu
PHONE: 310.825.5346, 310.206.8393
http://www.chem.ucla.edu/dept/Faculty/kaner/
Suneel Kodambaka, Ph.D.  
Associate Professor

**EXPERTISE:**
- In Situ Microscopy
- Nanowires, 2D Layered Materials, Ultra-high Temperature Ceramics
- Electrodeposition
- Nanomechanics
- Kinetics of Crystal Growth
- Surface Catalysis
- Thin Film Physics

**MAJOR RESEARCH AREAS:**
- Ceramics and Ceramic Processing
- Electrical and Optical Materials
- Nanoengineering
- Structural Materials

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**
- Nanoelectronics, Nanoelectronics Materials Processing
- Renewable Energy

**CONTACT INFORMATION:**
- **EMAIL:** kodambaka@ucla.edu
- **PHONE:** 310.206.8174
- [http://www.mse.ucla.edu/faculty/kodambaka/](http://www.mse.ucla.edu/faculty/kodambaka/)

Jaime Marian, Ph.D.  
Associate Professor

**EXPERTISE:**
- Computational Modeling and Simulation of Materials Under Extreme Conditions
- Solid Mechanics
- Irradiation Damage
- Thermodynamics and Kinetics of Alloy Systems
- Algorithms and Methods for Bridging Time and Length Scales

**MAJOR RESEARCH AREA:**
- Structural and Solid Mechanics

**CONTACT INFORMATION:**
- **EMAIL:** jmarian@ucla.edu
- **PHONE:** 310.825.5534
- [http://www.mse.ucla.edu/marian/](http://www.mse.ucla.edu/marian/)
Ali Mosleh, Ph.D.
Distinguished Professor
Evalyn Knight Chair in Engineering
Director, B. John Garrick Institute for the Risk Sciences

EXPERTISE:
• Risk Assessment
• Reliability Engineering
• Decision Analysis
• Bayesian Methods for Data Analysis
• Space Systems Risk Analysis
• Information Systems Security Risk Management

MAJOR RESEARCH AREA:
• Systems Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Systems Dynamics and Control

CONTACT INFORMATION:
EMAIL: mosleh@ucla.edu
PHONE: 310.825.5534
http://www.mse.ucla.edu/ali-mosleh/

Vidvuds Ozolins, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Semiconductors, Thermoelectrics and Solar Cell Materials
• Energy Storage Materials
• Nuclear Materials and Nuclear Fuels
• Ceramics and Metallic Alloys

MAJOR RESEARCH AREAS:
• Ceramics and Ceramic Processing
• Electrical and Optical Materials
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Renewable Energy

CONTACT INFORMATION:
EMAIL: vidvuds@ucla.edu
PHONE: 310.267.5538
http://www.mse.ucla.edu/faculty/ozolins/
Qibing Pei, Ph.D.  
Professor  
OTHER AFFILIATION:  
California NanoSystems Institute  
EXPERTISE:  
• Electroactive Polymers and Composites Through Molecular Synthesis and Nanoengineering  
• Artificial Muscles  
• Flexible and Organic Electronics  
MAJOR RESEARCH AREAS:  
• Electrical and Optical Materials  
• MEMS and Nanotechnology  
CONTACT INFORMATION:  
EMAIL:  qpei@seas.ucla.edu  
PHONE:  310.825.4217  
http://www.mse.ucla.edu/faculty/pei/  

Dwight C. Streit, Ph.D.  
Distinguished Professor  
Department Chair  
Director, Institute of Technology Advancement (ITA)  
OTHER AFFILIATION:  
Electrical Engineering  
EXPERTISE:  
• Advanced Semiconductors  
• Microelectronics  
• Radar  
• Communication and Satellite Payload Electronics  
MAJOR RESEARCH AREAS:  
• Electrical and Optical Materials  
• Physical and Wave Electronics  
• Semiconductor Manufacturing  
MAJOR CROSS-DISCIPLINARY RESEARCH AREA:  
• Nanoelectronics, Nanoelectronics Materials Processing  
CONTACT INFORMATION:  
EMAIL:  streit@ucla.edu  
PHONE:  310.825.7011  
http://www.mse.ucla.edu/faculty/dwight-streit/
Sarah Tolbert, Ph.D.
Professor

OTHER AFFILIATIONS:
Chemistry and Biochemistry, California NanoSystems Institute

EXPERTISE:
• Self-assembled Materials for Electrochemical Energy Storage
• Materials and Architectures for Energy Harvesting
• Nanostructured Magnetic/Piezoelectric Materials
• Novel Ultrahard Materials
• Synthesis and Characterization of Solution Processed Nanostructured Materials

MAJOR RESEARCH AREAS:
• Electrical and Optical Materials
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Renewable Energy

CONTACT INFORMATION:
EMAIL: tolbert@chem.ucla.edu
PHONE: 310.206.4767
http://www.chemistry.ucla.edu/directory/tolbert-sarah-h

King-Ning Tu, Ph.D.
Distinguished Professor

OTHER AFFILIATION:
Electrical Engineering

EXPERTISE:
• 3D IC Packaging and Joule Heating
• Metal-silicon Interfaces
• Electromigration
• Pb-free Solder Joints

MAJOR RESEARCH AREA:
• Electrical and Optical Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Nanoelectronics, Nanoelectronics Materials Processing

CONTACT INFORMATION:
EMAIL: kntu@ucla.edu
PHONE: 310.206.4838
http://www.mse.ucla.edu/tu/
Paul S. Weiss, Ph.D.
Distinguished Professor

OTHER AFFILIATIONS:
California NanoSystems Institute,
Chemistry and Biochemistry
Jonsson Comprehensive Cancer Center

EXPERTISE:
• Ultimate Limits of Miniaturization
• Atomic Scale Chemical, Physical,
  Optical, Mechanical and Electronic
  Properties of Surfaces and
  Supramolecular Assemblies
• Scanning Probe Microscopy; Imaging

MAJOR RESEARCH AREAS:
• Biomaterials
• Biomedical Devices
• MEMS and Nanotechnology
• Nanoengineering
• Physical and Wave Electronics

CONTACT INFORMATION:
EMAIL: psw@cnsi.ucla.edu
PHONE: 310.267.4838
http://www.chemistry.ucla.edu/
directory/weiss-paul-s
http://www.nano.ucla.edu/

Ya-Hong Xie, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Physical Properties of van der Waals
  Materials Including Graphene
• Graphene-plasmonic Hybrid Platforms
  for Ultra Sensitive Bio-Sensing
• Dislocation Elimination from Epitaxial
  Group III-Nitride (GaN) for High
  Performance Device Applications
• Epitaxial Semiconductor
  Hetero-structures and Strained Si for
  Quantum Transport Research
• Electronic and Optoelectronic
  Materials and Devices
• Nanofabrication and Devices
• Surface-enhanced Raman
  Spectroscopy (SERS)

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Electrical and Optical Materials
• Hydrology and Water Resources
• MEMS and Nanotechnology
• Nanoengineering
• Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY
RESEARCH AREAS:
• Healthcare Technologies
• Nanoelectronics, Nanoelectronics
  Materials Processing
• Renewable Energy
• Sustainable Infrastructure

CONTACT INFORMATION:
EMAIL: yhx@seas.ucla.edu
PHONE: 310.825.2971
http://www.mse.ucla.edu/faculty/xie/
Jenn-Ming Yang, Ph.D.
Professor
Associate Dean for International Initiatives and Online Programs

EXPERTISE:
• Aerospace Structural Materials
• Materials for Infrastructure
• Nanostructured Materials and Nanomechanical Testing
• Additive Manufacturing

MAJOR RESEARCH AREA:
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Sustainable Infrastructure

CONTACT INFORMATION
EMAIL: jyang@seas.ucla.edu
PHONE: 310.825.2758
http://www.mse.ucla.edu/yangjm/

Yang Yang, Ph.D.
Professor
Carol and Lawrence E. Tannas Jr. Chair in Engineering

OTHER AFFILIATIONS:
Bioengineering, California NanoSystems Institute

EXPERTISE:
• Polymer LEDs
• Solar Cells
• Conjugated Polymers and Organics
• Transistors
• Memory Devices
• Energy and the Environment

MAJOR RESEARCH AREA:
• Electrical and Optical Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Renewable Energy

CONTACT INFORMATION
EMAIL: yy@seas.ucla.edu
PHONE: 310.825.4052
http://www.mse.ucla.edu/yangyang/
Mechanical and Aerospace Engineering

ADDRESS:
Mechanical and Aerospace Engineering Department
48-121 Engineering IV
Box 1597
Los Angeles, CA 90095-1597

PHONE:
310.825.7793

http://www.mae.ucla.edu/
Mohamed A. Abdou, Ph.D.
Distinguished Professor

EXPERTISE:
- Fusion Engineering and Design
- Nuclear Engineering
- Fluid Dynamics, Heat and Mass Transfer in the Presence of Magnetic Fields
- Neutronics
- Radiation Transport
- Plasma-material Interactions
- Energy
- Experiments, Modeling and Analysis
- Thermofluids: MHD, Heat, Mass and Momentum Transfer
- Innovative Designs for Fusion and Nuclear Components Under Multi-field Environment
- Materials Interactions

MAJOR RESEARCH AREAS:
- Fluid Mechanics
- Heat and Mass Transfer
- Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
- Renewable Energy

CONTACT INFORMATION:
EMAIL: abdou@fusion.ucla.edu
PHONE: 310.206-0501
http://www.mae.ucla.edu/mohamed-abdou/

Oddvar O. Bendiksen, Ph.D.
Professor

EXPERTISE:
- Classical and Computational Aeroelasticity
- Structural Dynamics
- Unsteady Aerodynamics
- Aerospace Materials and Structures
- Aircraft Design
- Aircraft Accident Investigations

MAJOR RESEARCH AREA:
- Structural and Solid Mechanics

CONTACT INFORMATION:
EMAIL: oddvar@seas.ucla.edu
PHONE: 310.206.5453
http://www.mae.ucla.edu/oddvar-bendiksen/
Gregory P. Carman, Ph.D.
Professor
Director, Center for Translational Applications of Nanoscale Multiferroic Systems (TANMS)

OTHER AFFILIATIONS:
Materials Science and Engineering, Bioengineering, California NanoSystems Institute

EXPERTISE:
• Electromagnetoelasticity Models
• Multiferroic/Magnetolectric Nanomaterials
• Magnetostrictive Composites
• Biomedical Vascular Devices
• Ferroelectric/Ferromagnetic/Ferroelastic Materials

MAJOR RESEARCH AREAS:
• Biomedical Devices
• MEMS and Nanotechnology
• Nanoengineering
• Structural and Solid Mechanics
• Structural Engineering and Mechanics
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Nanoelectronics, Nanoelectronics Materials Processing

CONTACT INFORMATION:
EMAIL: carman@seas.ucla.edu
PHONE: 310.825.6030, 310.825.2591
http://www.tanms-erc.org/

Yong Chen, Ph.D.
Professor

OTHER AFFILIATIONS:
Materials Science and Engineering, California NanoSystems Institute

EXPERTISE:
• Nanoscale Science and Engineering
• Micro- and Nano-fabrication
• Self-assembly Phenomena
• Microscale and Nanoscale Electronics
• Mechanical, Optical and Biological Sensing Devices

MAJOR RESEARCH AREAS:
• Electrical and Optical Materials
• MEMS and Nanotechnology
• Structural Materials

CONTACT INFORMATION:
EMAIL: yongchen@seas.ucla.edu
PHONE: 310.206.2453
http://www.mae.ucla.edu/yong-chen/
Eric P.Y. Chiou, Ph.D.
Associate Professor

OTHER AFFILIATIONS:
Bioengineering, California NanoSystems Institute

EXPERTISE:
• Biomedical Devices
• Biophotonics
• Optofluidics
• Micro and Nano Fabrication

MAJOR RESEARCH AREAS:
• Biomedical Devices
• MEMS and Nanotechnology

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: pychiou@seas.ucla.edu
PHONE: 310.825.8620
http://www.mae.ucla.edu/pei-yu-chiou/

Vijay K. Dhir, Ph.D.
Distinguished Professor

OTHER AFFILIATION:
Chemical and Biomolecular Engineering

EXPERTISE:
• Two-phase Heat Transfer
• Energy
• Thermal Hydraulics and Safety of Nuclear Reactors
• Microgravity Heat Transfer
• Soil Remediation
• High-power Density Electronic Cooling

MAJOR RESEARCH AREA:
• Heat and Mass Transfer

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Renewable Energy

CONTACT INFORMATION:
EMAIL: vdhir@seas.ucla.edu
PHONE: 310.825.8507
http://boiling.seas.ucla.edu/
Jeff Eldredge, Ph.D.
Associate Professor

EXPERTISE:
- Fluid Mechanics
- Bio-inspired Locomotion in Fluids
- Transition and Turbulence of High-speed Flows
- Aerodynamically Generated Sound
- Vorticity-based Numerical Methods
- Simulations of Biomedical Flows

MAJOR RESEARCH AREA:
- Fluid Mechanics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
- Healthcare Technologies

CONTACT INFORMATION:
EMAIL: eldredge@seas.ucla.edu
PHONE: 310.206.5094
http://www.mae.ucla.edu/jeff-eldredge/

Rajit Gadh, Ph.D.
Professor

Director, Smart Energy Research Center (SMERC)

OTHER AFFILIATION:
Institute of the Environment and Sustainability

EXPERTISE:
- Smart Grid
- Electric Vehicle Integration into the Grid - V2G and G2V
- Micro-grids
- Demand Response
- Renewable Integration into a Smart Grid
- Wireless, Mobile Interfaces and Sensors for I.T.-based Grid Integration
- Internet of Things (IoT) and Cyber-physical integration for Smart Grids
- RFID for Tracking Assets
- Web-based Design, Visualization and Collaboration

MAJOR RESEARCH AREA:
- Manufacturing and Design

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
- Renewable Energy
- Sustainable Infrastructure
- Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: gadh@winmec.ucla.edu
PHONE: 310.267.4892
http://www.mae.ucla.edu/rajit-gadh/
Nasr M. Ghoniem, Ph.D.
Distinguished Professor

OTHER AFFILIATION:
Materials Science and Engineering

EXPERTISE:
• Mechanical Behavior of High-Temperature Materials
• Radiation Interaction with Material
• Material Processing by Plasma and Beam Sources
• Physics and Mechanics of Material Defects
• Energy
• Aerospace Materials and Structures
• Fusion

MAJOR RESEARCH AREAS:
• Manufacturing and Design
• Structural and Solid Mechanics
• Structural Engineering and Mechanics
• Structural Materials

CONTACT INFORMATION:
EMAIL: ghoniem@seas.ucla.edu
PHONE: 310.825.4866
http://www.mae.ucla.edu/nasr-ghoniem/
http://matrix.seas.ucla.edu/

James S. Gibson, Ph.D.
Professor

EXPERTISE:
• Control and Identification of Dynamical Systems
• Optimal and Adaptive Control of Distributed Systems
• Flexible Structures and Fluid Flows
• Identification and Noise Cancellation

MAJOR RESEARCH AREA:
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: gibson@seas.ucla.edu
PHONE: 310.825.9362
http://www.mae.ucla.edu/steve-gibson/
**Vijay Gupta, Ph.D.**  
*Professor*

**OTHER AFFILIATIONS:**  
Bioengineering  
Materials Science and Engineering

**EXPERTISE:**  
- Experimental Mechanics  
- Fracture of Engineering Solids  
- Mechanics of Thin Film and Interfaces  
- Failure Mechanisms and Characterization of Composite Materials  
- Ice Mechanics  
- Aerospace Materials and Structures

**MAJOR RESEARCH AREAS:**  
- Biomaterials  
- Biomedical Devices  
- Ceramics and Ceramic Processing  
- Manufacturing and Design  
- Nanoengineering  
- Structural and Solid Mechanics  
- Structural Engineering and Mechanics  
- Structural Materials

**MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:**  
- Healthcare Technologies  
- Public Health, Resource Monitoring and Protection  
- Sustainable Infrastructure

**CONTACT INFORMATION:**
*EMAIL:* vgupta@seas.ucla.edu  
*PHONE:* 310.825.0223  
http://www.mae.ucla.edu/vijay-gupta/

---

**Chih-Ming Ho, Ph.D.**  
*Distinguished Professor*

*Ben Rich Lockheed Martin Chair in Advanced Aerospace Technologies*

**OTHER AFFILIATIONS:**  
Bioengineering

**EXPERTISE:**  
- Phenotypic Personalized Medicine  
- Optimization of Combinatorial Drug  
- Microfluidics  
- Turbulence  
- Personalized/Precision Medicine

**MAJOR RESEARCH AREAS:**  
- MEMS and Nanotechnology  
- Signals and Systems  
- Systems and Control

**MAJOR CROSS-DISCIPLINARY RESEARCH AREA:**  
- Healthcare Technologies

**CONTACT INFORMATION:**
*EMAIL:* chihming@seas.ucla.edu  
*PHONE:* 10.825.9993  
http://www.mae.ucla.edu/chih-ming-ho/
Dennis Hong, Ph.D.
Professor

EXPERTISE:
• Humanoids and Bipedal Robots
• Robot Locomotion and Manipulation
• Robotic Platforms
• Autonomous Vehicles
• Machine Design
• Kinematics & Mechanisms

CONTACT INFORMATION:
EMAIL: dennishong@ucla.edu
PHONE: 310.825.9471
http://www.mae.ucla.edu/dennis-hong/

Jonathan B. Hopkins, Ph.D.
Assistant Professor

EXPERTISE:
• Design, Analysis, and Fabrication of Microarchitected Materials
• Design of Compliant Mechanisms and Flexible Structures
• Precision Engineering
• Advanced Additive Fabrication

MAJOR RESEARCH AREAS:
• Manufacturing and Design
• MEMS and Nanotechnology
• Structural Materials
• Structural and Solid Mechanics
• Structural Engineering and Mechanics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: hopkins@seas.ucla.edu
PHONE: 310.825.8091
http://www.mae.ucla.edu/jonathan-b-hopkins/
http://www.jonathanbhopkins.com/
Yongjie Hu, Ph.D.
Assistant Professor

EXPERTISE:
- Micro/Nanoscale Heat Transfer and Electron Transport
- Ultrafast Optical Spectroscopy
- Nanomaterials Design and Processing
- Thermal, Electronic, Optoelectronic, and Thermoelectric Devices
- Nanoelectronics, Quantum Devices
- Energy Conversion and Storage

MAJOR RESEARCH AREAS:
- Circuits and Embedded Systems
- Electrical and Optical Materials
- Heat and Mass Transfer
- Manufacturing and Design
- MEMS and Nanotechnology
- Nanoelectronics
- Physical and Wave Electronics

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
- Healthcare Technologies
- Nanoelectronics, Nanoelectronics Materials Processing
- Renewable Energy
- Sustainable Infrastructure
- Water
- Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: yhu@seas.ucla.edu
PHONE: 310.825.7793
http://www.mae.ucla.edu/yongjie-hu/

Tetsuya Iwasaki, Ph.D.
Professor

EXPERTISE:
- Dynamical Systems
- Robust and Optimal Controls
- Nonlinear Oscillators
- Resonance Entrainment
- Modeling and Analysis of Neuronal Circuits for Animal Locomotion
- Central Pattern Generators
- Body-fluid Interaction During Undulatory and Oscillatory Swimming

MAJOR RESEARCH AREAS:
- Signals and Systems
- Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
- Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: tiwasaki@ucla.edu
PHONE: 310.206.2533
http://www.mae.ucla.edu/tetsuya-iwasaki/
Yongho Sungtaek Ju, Ph.D
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Heat and Mass Transfer
• Renewable Energy Generation
• Energy Efficiency
• Energy and Water Nexus
• Micro and Nanoscale Thermosciences
• BioMEMS and Nanotechnology

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Heat and Mass Transfer
• Hydrology and Water Resources
• MEMS and Nanotechnology
• Nanoengineering

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Renewable Energy
• Water

CONTACT INFORMATION:
EMAIL:  just@seas.ucla.edu
PHONE:  310.825.0985
http://www.mae.ucla.edu/y-sungtaek-ju/

Ann R. Karagozian, Ph.D.
Professor

EXPERTISE:
• Combustion Instabilities in Aerospace Propulsion Systems
• Alternative Fuels and Fuel Additives
• Numerical Simulations of Ionized Gas Flows and Chemically Reactive Flows

MAJOR RESEARCH AREAS:
• Fluid Mechanics
• Heat and Mass Transfer

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Renewable Energy

CONTACT INFORMATION:
EMAIL:  ark@seas.ucla.edu
PHONE:  310.825.5653
http://www.mae.ucla.edu/ann-karagozian/
http://www.seas.ucla.edu/combustion/
http://ccas.seas.ucla.edu/
H. Pirouz Kavehpour, Ph.D.
Professor

EXPERTISE:
• Fluid Mechanics
• Transport Phenomena in Biological Systems
• Physics of Contact Line Phenomena
• Complex Fluid Non-isothermal Flows
• Micro and Nano Heat Guides
• Biomechanics
• Biomedical Instrumentation

MAJOR RESEARCH AREAS:
• Fluid Mechanics
• Heat and Mass Transfer
• MEMS and Nanotechnology

CONTACT INFORMATION:
EMAIL: pirouz@seas.ucla.edu
PHONE: 310.825.6494
http://www.mae.ucla.edu/pirouz-kavehpour/
http://www.seas.ucla.edu/cfip/

Chang-Jin (CJ) Kim, Ph.D.
Professor

OTHER AFFILIATIONS:
Bioengineering, California NanoSystems Institute

EXPERTISE:
• Microelectromechanical Systems (MEMS)
• Micro/Nano Fabrication Technologies, Structures, Actuators, Devices and Systems
• Microfluidics Involving Surface Tension, Droplets, Electrowetting
• Superhydrophobic Surfaces for Drag Reduction, Biofouling Elimination

MAJOR RESEARCH AREA:
• MEMS and Nanotechnology

CONTACT INFORMATION:
EMAIL: cjkim@ucla.edu
PHONE: 310.825.0267
http://www.mae.ucla.edu/chang-jin-kim/
http://cjmems.seas.ucla.edu/
J. John Kim, Ph.D.
Distinguished Professor
Rockwell Collins Chair in Engineering

EXPERTISE:
• Turbulence
• Numerical Simulation of Turbulent and Transitional Flows
• Flow Control
• Numerical Analysis
• Large-scale Scientific Computations

MAJOR RESEARCH AREA:
• Fluid Mechanics

CONTACT INFORMATION:
EMAIL: jkim@seas.ucla.edu
PHONE: 310.825.4373
http://www.mae.ucla.edu/john-kim/
http://www.turbulence.ucla.edu/

William S. Klug, Ph.D.
Associate Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Solid and Structural Mechanics
• Biomechanics
• Biophysics
• Theory and Computation in Soft Condensed Matter Physics
• Modeling of Proteins and Nucleic Acids
• Mechanics of Active and Multiphase Materials
• Multiscale Modeling and Computation
• Cardiac Electrophysiology and Mechanics
• Finite Element Analysis

MAJOR RESEARCH AREAS:
• Biomaterials
• Molecular and Cellular Bioengineering
• Nanoengineering
• Structural and Solid Mechanics
• Structural Engineering and Mechanics
• Structural Materials

CONTACT INFORMATION:
EMAIL: klug@seas.ucla.edu
PHONE: 310.794.7347
http://www.mae.ucla.edu/william-klug/
Adrienne G. Lavine, Ph.D.
Professor

EXPERTISE:
• Solar Thermal Energy Storage
• Thermal Aspects of Plasmonic Nanolithography
• Thermal Energy Harvesting
• Coupled Thermal and Mechanical Phenomena
• Heat Transfer in Manufacturing Processes Such as Machining and Plasma-spray

MAJOR RESEARCH AREA:
• Heat and Mass Transfer

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Renewable Energy

CONTACT INFORMATION:
EMAIL: lavine@seas.ucla.edu
PHONE: 310.825.7468

http://www.mae.ucla.edu/adrienne-lavine/
http://www.seas.ucla.edu/lavine/

Xiaochun Li, Ph.D.
Professor
Raytheon Chair in Manufacturing Engineering

EXPERTISE:
• Scifacturing (Science-driven Manufacturing)
• Innovative Manufacturing and Materials Processing
• Solid Freeform Fabrication
• Nanoscience and Nanotechnology
• Laser Micro/Nano Materials Processing
• Intelligent Multi-scale Process/System Integration

MAJOR RESEARCH AREAS:
• Manufacturing and Design
• MEMS and Nanotechnology
• Nanoengineering
• Structural Materials

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Nanoelectronics, Nanoelectronics Materials Processing
• Wireless Sensing and Networking

CONTACT INFORMATION:
EMAIL: xcli@seas.ucla.edu
PHONE: 310.825.2383

http://www.mae.ucla.edu/xiaochun-li/
Kuo-Nan Liou, Ph.D.
Distinguished Professor

OTHER AFFILIATIONS:
Atmospheric and Oceanic Sciences, Electrical Engineering

EXPERTISE:
• Atmospheric Radiative Transfer and Remote Sensing
• Clouds and Aerosols
• Climate Change, Regional Climate Modeling in Mountains and Snow
• Light Scattering by Ice Crystals and Aerosols

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Renewable Energy
• Water

CONTACT INFORMATION:
EMAIL: knliou@atmos.ucla.edu
PHONE: 310.794.9832
http://people.atmos.ucla.edu/liou/

Christopher Lynch, Ph.D.
Professor

OTHER AFFILIATION:
California NanoSystems Institute

EXPERTISE:
• Ferroelectric, Magnetic, and Multiferroic Materials
• Mechanics of Materials
• Sensor and Actuator Applications
• Fracture, Fatigue and Failure Analysis

MAJOR RESEARCH AREAS:
• Ceramics and Ceramic Processing
• Electrical and Optical Materials
• Structural and Solid Mechanics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Nanoelectronics, Nanoelectronics Materials Processing

CONTACT INFORMATION:
EMAIL: cslynch@seas.ucla.edu
PHONE: 310.825.7660
http://www.mae.ucla.edu/christopher-s-lynch/
Ajit K. Mal, Ph.D.
Distinguished Professor

EXPERTISE:
• Mechanics of Solids, Fractures, and Failure
• Wave Propagation
• Aircraft Nondestructive Evaluation
• Composite Materials
• Aerospace Materials and Structures
• Structural Health Monitoring
• Biomechanics

MAJOR RESEARCH AREA:
• Structural and Solid Mechanics

CONTACT INFORMATION:
EMAIL: ajit@seas.ucla.edu
PHONE: 310.825.5481
http://www.mae.ucla.edu/ajit-mal/

Robert T. M’Closkey, Ph.D.
Professor

EXPERTISE:
• Nonlinear Control Theory
• Design with Application to Mechanical and Aerospace Systems
• Real-time Implementation

MAJOR RESEARCH AREA:
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: rtm@seas.ucla.edu
PHONE: 310.825.2909
http://www.mae.ucla.edu/robert-mcloskey/
http://www.sydycc.ucla.edu/home.htm
Laurent Pilon, Ph.D.
Professor

EXPERTISE:
• Radiation Transfer
• Biophotonics
• Nanoscale Heat Transfer
• Interfacial and Transport Phenomena
• Materials for Energy Applications
• Nanoporous Materials
• Waste Heat Energy Harvesting
• Energy Storage, Energy and the Environment
• Foams
• Biomedical Optics

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Ceramics and Ceramic Processing
• Electrical and Optical Materials
• Heat and Mass Transfer
• Medical Imaging Informatics
• MEMS and Nanotechnology
• Nanoengineering

MAJOR CROSS-DISCIPLINAR Y RESEARCH AREAS:
• Healthcare Technologies
• Renewable Energy

CONTACT INFORMATION:
EMAIL: pilon@seas.ucla.edu
PHONE: 310.206.5598
http://www.mae.ucla.edu/laurent-pilon/

Jacob Rosen, Ph.D.
Professor

EXPERTISE:
• Medical Robotics
• Medical Devices
• Biorobotics
• Human-Centered Robotics
• Surgical Robotics
• Wearable Robotics
• Rehabilitation Robotics
• Neural Control
• Human-Machine Interface
• Biomechanics

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Manufacturing and Design
• Structural and Solid Mechanics
• Structural Engineering and Mechanics
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: rosen@seas.ucla.edu
PHONE: 310.825.7793
http://www.mae.ucla.edu/jacob-rosen/
Veronica J. Santos, Ph.D.
Associate Professor

EXPERTISE:
• Hand Biomechanics
• Neural Control of Movement
• Grasp and Manipulation
• Human-Machine Systems
• Prosthetics
• Robotics
• Haptics
• Tactile Sensors
• Machine Learning
• Stochastic Modeling

MAJOR RESEARCH AREAS:
• Artificial Intelligence
• Biomedical Devices
• Manufacturing and Design
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: vjsantos@ucla.edu
PHONE: 310.825.2125
http://www.mae.ucla.edu/veronica-santos/
http://biomechatronicslab.ucla.edu

R. Mitchell Spearrin, Ph.D.
Assistant Professor

EXPERTISE:
• Spectroscopy
• Molecular Gas Dynamics
• Chemical Kinetics
• Statistical Thermodynamics
• Applied Optics
• Combustion
• Energy Systems

MAJOR RESEARCH AREAS:
• Heat and Mass Transfer
• Fluid Mechanics

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Healthcare Technologies

CONTACT INFORMATION:
EMAIL: spearrin@seas.ucla.edu
Jason L. Speyer, Ph.D.
Distinguished Professor
Ronald and Valerie Sugar Chair in Engineering
OTHER AFFILIATION:
Electrical Engineering
EXPERTISE:
• Stochastic and Deterministic Optimal Control and Estimation with Application to Aerospace Systems, Guidance, Flight Control, Flight Mechanics

MAJOR RESEARCH AREAS:
• Signals and Systems
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREA:
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: speyer@seas.ucla.edu
PHONE: 310.206.4451
http://www.mae.ucla.edu/jason-speyer/

Tsu-Chin Tsao, Ph.D.
Professor
Department Chair
EXPERTISE:
• Modeling and Control of Dynamics Systems with Applications in Mechanical Systems
• Manufacturing Processes
• Automotive Systems
• Energy Systems
• Digital Control
• Repetitive and Learning Control
• Adaptive and Optimal Control
• Mechatronics and Robotics

MAJOR RESEARCH AREAS:
• Biomedical Devices
• Manufacturing and Design
• Systems and Control

MAJOR CROSS-DISCIPLINARY RESEARCH AREAS:
• Healthcare Technologies
• Renewable Energy
• Systems, Dynamics and Control

CONTACT INFORMATION:
EMAIL: ttsao@seas.ucla.edu
PHONE: 310.206.2819
http://www.mae.ucla.edu/tsu-chin-tsao/
Richard Wirz, Ph.D.  
*Associate Professor*

**EXPERTISE:**
- Plasma Propulsion (Electric Propulsion)
- Partially-ionized Plasma Discharges and Confinement
- Miniature Plasma Thrusters and Devices
- Renewable Energy
- Wind Energy
- Solar Thermal Energy

**MAJOR RESEARCH AREAS:**
- Fluid Mechanics
- Heat and Mass Transfer

**MAJOR CROSS-DISCIPLINARY RESEARCH AREA:**
- Renewable Energy

**CONTACT INFORMATION:**
- **EMAIL:** wirz@seas.ucla.edu
- **PHONE:** 310.825.5489
- [http://www.mae.ucla.edu/richard-wirz/](http://www.mae.ucla.edu/richard-wirz/)

Xiaolin Zhong, Ph.D.  
*Professor*

**EXPERTISE:**
- Computational Fluid Dynamics
- Hypersonic Flow
- High-order Methods for High-speed Flow Simulation
- Numerical Simulation of Transient Hypersonic Flow with Nonequilibrium Real Gas Effects
- Instability and Transition of Hypersonic Boundary Layers

**MAJOR RESEARCH AREA:**
- Fluid Mechanics

**CONTACT INFORMATION:**
- **EMAIL:** xiaolin@seas.ucla.edu
- **PHONE:** 310.825.2905
- [http://www.mae.ucla.edu/xiaolin-zhong/](http://www.mae.ucla.edu/xiaolin-zhong/)
The UCLA Henry Samueli School of Engineering and Applied Science is home to 9 centers of excellence funded by government agencies and leading industry groups to spur research in promising fields and address the major engineering challenges of our times. Each of the following centers is based at UCLA Engineering and receives in excess of $1 million a year to pursue its research goals.
CENTERS OF EXCELLENCE

CENTER FOR DOMAIN-SPECIFIC COMPUTING (CDSC)
Distinguished Professor Jason Cong, Director
http://www.cdsc.ucla.edu/

CENTER FOR ENCRYPTED FUNCTIONALITIES
Professor Amit Sahai, Director
http://www.cs.ucla.edu/cef/

CENTER FOR FUNCTION ACCELERATED NANOMATERIAL ENGINEERING (FAME)
Professor Jane P. Chang, Director
http://fame-nano.org/

CENTER FOR TRANSLATIONAL APPLICATIONS OF NANOSCALE MULTIFERROIC SYSTEMS (TANMS)
Professor Gregory Carman, Director
http://www.tanms-erc.org/

CENTER OF EXCELLENCE FOR GREEN NANO TECHNOLOGIES (CEGN)
Distinguished Professor Kang Wang, Director
http://www.cegn.kacst-jcep.org/

NAMED DATA NETWORKING (NDN)
Professor Lixia Zhang, Director
http://named-data.net/

SMART GRID ENERGY RESEARCH CENTER (SMERC)
Professor Rajit Gadh, Director
http://smartgrid.ucla.edu/

WESTERN INSTITUTE OF NANOTECHNOLOGY ON GREEN ENGINEERING AND METROLOGY (WIN-GEM)
Distinguished Professor Kang Wang, Director
http://www.win-nano.org/

WIRELESS HEALTH INSTITUTE (WHI)
Professor William Kaiser, Distinguished Professor Majid Sarrafzadeh and Dr. Bruce Dobkin, Co-directors
http://www.wirelesshealth.ucla.edu/
Faculty by Name
Faculty

A
Mohamed Abdou, 103
Denise Aberle, 5
Asad Abidi, 65
Abeer Alwan, 65
Katsushi Arisaka, 66

B
Mathieu Bauchy, 31
Oddvar Bendiksen, 103
Scott Brandenberg, 31
Henry Burton, 32

C
Danijela Cabric, 66
Russell Cafisch, 92
Robert Candler, 67
Gregory Carman, 104
Jane P. Chang, 21
M.C. Frank Chang, 67
Yvonne Chen, 21
Yong Chen, 104
Eric P.Y. Chiou, 105
Junghoo (John) Cho, 43
Panagiotis Christofides, 22
Chi On Chui, 68
Mark Cohen, 5
Yoram Cohen, 22
Tyson Condie, 43
Jason Cong, 44
Samuel Coogan, 68
Ian Cook, 6

D
Babak Daneshrad, 69
Adnan Darwiche, 44
James F. Davis, 23
Timothy Deming, 7
Vijay K. Dhir, 105
Dino Di Carlo, 7
Linda Demer, 6
Timothy Deming, 7
Suhas Diggavi, 69
Joseph DiStefano III, 45
Lara Dolecek, 70
Bruce Dunn, 92
James Dunn, 8
Michael Dyer, 45

E
Paul Eggert, 46
Jeff Eldredge, 106
Daniel Ennis, 8
Milos Ercegovac, 46
Jason Ernst, 47
Eleazar Eskin, 47

F
Christina Fragouli, 70

G
Rajit Gadh, 106
Eliezer Gafni, 48
Robin Garrell, 9
Mekonnen Gebremichael, 32
Mario Gerla, 48
Nasr Ghoniem, 107
James S. Gibson, 107
Mark Goorsky, 93
Warren Grundfest, 9
Puneet Gupta, 71
Vijay Gupta, 108

H
Lei He, 71
Robert Hicks, 23
Chih-Ming Ho, 108
Dean Ho, 10
Eric Hoek, 33
Dennis Hong, 109
Jonathan Hopkins, 109
Kendall Houk, 24
Tzung Hsiai, 10
Yongjie Hu, 110
Yu Huang, 93
Diana Huffaker, 72

I
Tatsuo Itoh, 72
Tetsuya Iwasaki, 110
Subramanian Iyer, 73
Bahram Jalali, 73
Mona Jarrahi, 74
Jennifer Jay, 33
Chandrashekhar Joshi, 74
Jiann-Wen (Woody) Ju, 34
Yongho Sungtaek Ju, 111

William Kaiser, 75
Ioanna Kakoulli, 94
daniel Kamei, 11
Richard Kaner, 94
Ann Karagozian, 111
Andrea Kasko, 11
H. Pirouz Kavehpour, 112
Chang-Jin (C.J) Kim, 112
J. John Kim, 113
Miryung Kim, 48
William Klug, 113
Suneel Kodambaka, 95
Richard Korf, 49

Alan Laub, 75
Adrienne Lavine, 114
Christopher Lee, 50
Dennis Lettenmaier, 34
Debiao Li, 12
Xiaochun Li, 114
Song Li, 12
James Liao, 13, 24
Kuo-Nan Liou, 115
Jia-Ming Liu, 76
Wentai Liu, 13
Songwu Lu, 50
Yunfeng Lu, 25
Christopher Lynch, 115

Aman Mahajan, 14
Shaily Mahendra, 35
Ajit Mal, 116
Vasilios Manousiouthakis, 25
Steven Margulis, 35
Jaime Marian, 95
Dejan Markovic, 76
Robert M’Closkey, 116
Ankur Mehta, 77
Raghu Meka, 51
Todd Millstein, 51
Harold Monbouquette, 26
Warren Mori, 77
Ali Mosleh, 96

Stanley Osher, 52
Rafail Oстrovsky, 52
Thomas Otis, 78
Aydogan Ozcan, 78
Vidvuds Ozolins, 96

Jens Palsberg, 53
Sudhakar Pamarti, 79
D. Stott Parker, 53
C. Kumar Patel, 79
Qibing Pei, 97
Laurent Pilon, 117
Miodrag Potkonjak, 54
Gregory Pottie, 80

Yahya Rahmat-Samii, 80
Behzad Razavi, 81
Glenn Reinman, 54
Philip A. Romero, 26
Jacob Rosen, 117
Vwani Roychowdhury, 81
Izhak Rubin, 82

Amit Sahai, 55
Henry Samueli, 82
Sriram Sankararaman, 55
Guarav Sant, 36
Veronica Santos, 118
Majid Sarrafzadeh, 56
Ali Sayed, 83
Jacob Schmidt, 14
Tatiana Segura, 27
Stephanie Seidlits, 15
Selim Senkan, 27
Fei Sha, 56
Alexander Sherstov, 60
Kalyanam Shivkumar, 15
Dante Simonetti, 28
David Smallberg, 57
Stefano Soatto, 58
R. Mitchell Spearrin, 118
Jason Speyer, 119
Mani Srivastava, 83
Oscar Stafssudd, 84
Michael Stenstrom, 36
Jonathan P. Stewart, 37
Keith Stoltenbach, 37
Dwight Streit, 97
Ren Sun, 16

T
Paulo Tabuada, 84
Etrugrul Taciroglu, 38
Ameet Talwalkar, 58
Yuval Tamir, 59
Yi Tang, 28
Michael Teitell, 16
Demetri Terzopoulos, 59
Sarah Tolbert, 98
Tsu-Chin Tsao, 119
King-Ning Tu, 98

V
Guy Van den Broeck, 60
Lieven Vanderberghe, 85
Mihaela van der Schaar, 85
John Villasenor, 86
Mladen Vucetic, 38

W
John Wallace, 39
Cun Yu Wang, 17
Kang Wang, 86
Wei Wang, 60
Yuanxian Ethan Wang, 87
Paul Weiss, 99
Richard Wesel, 87
Benjamin Williams, 88
Richard Wirz, 120
Chee Wei Wong, 88
Gerard Wong, 17
Jason C.S. Woo, 89
Benjamin Wu, 18

X
Ya-Hong Xie, 99

Y
C.-K. Ken Yang, 89
Jenn-Ming Yang, 100
Yang Yang, 100
William W-G. Yeh, 39
Alan Yuille, 61

Z
Carlo Zaniolo, 61
Jian Zhang, 40
Lixia Zhang, 62
Xiaolin Zhong, 120
Song Chun Zhu, 62
Faculty by Major Research Areas

Artificial Intelligence
Biomaterials
Biomedical Devices
Biomolecular Engineering and Systems Biology
Ceramics and Ceramic Processing
Circuits and Embedded Systems
Computational Systems Biology
Computer Science Theory
Computer System Architecture and CAD
Electrical and Optical Materials
Environmental Engineering
Fluid Mechanics
Geotechnical Engineering
Graphics and Vision
Heat and Mass Transfer
Hydrology and Water Resources

Information and Data Management
Manufacturing and Design
Medical Imaging Informatics
MEMS and Nanotechnology
Molecular and Cellular Bioengineering
Nanoengineering
Network Systems
Physical and Wave Electronics
Process System Engineering
Semiconductor Manufacturing
Signals and Systems
Software Systems
Structural and Solid Mechanics
Structural Engineering and Mechanics
Structural Materials
Systems and Control
ARTIFICIAL INTELLIGENCE
Abeer Alwan, 65
Adnan Darwiche, 44
Michael Dyer, 45
Richard Korf, 49
Sriram Sankararaman, 55
Veronica Santos, 118
Fei Sha, 56
Alexander Sherstov, 57
David Smallberg, 57
Stefano Soatto, 58
Demetri Terzopoulos, 59
Guy Van den Broeck, 60
Mihaela van der Schaar, 85
Song Chun Zhu, 62

BIOMATERIALS
Ian Cook, 6
Timothy Deming, 7
Dino Di Carlo, 7
James Dunn, 8
Daniel Ennis, 8
Warren Grundfest, 9
Vijay Gupta, 108
Dean Ho, 10
Jiann-Wen (Woody) Ju, 34
Andrea Kasko, 11
William Klug, 113
Guarav Sant, 36
Tatiana Segura, 27
Stephanie Seidlits, 15
Paul Weiss, 99
Gerard Wong, 17
Benjamin Wu, 18

BIOMEDICAL DEVICES
Robert Candler, 67
Gregory Carman, 104
Eric P.Y. Chiou, 105
Chi On Chui, 68
Ian Cook, 6
Dino Di Carlo, 7
James Dunn, 8
Warren Grundfest, 9
Vijay Gupta, 108
Dean Ho, 10
Tzung Hsiai, 10
Bahram Jalali, 73
Yongho Sungtaek Ju, 111
William Kaiser, 75
Daniel Kamei, 11
Debiao Li, 12
Wentai Liu, 13
Dejan Markovic, 76
Aydogan Ozcan, 78
Laurent Pilon, 117
Yahya Rahmat-Samii, 80
Jacob Rosen, 117
Veronica Santos, 118
Jacob Schmidt, 14
Kalyanam Shivkumar, 15
R. Mitchell Spearrin, 118
Oscar Stafsudd, 84
Michael Teitell, 16
Tsu-ChinTsao, 119
Paul Weiss, 99
Benjamin Wu, 18
Ya-Hong Xie, 99

BIOMOLECULAR ENGINEERING AND SYSTEMS BIOLOGY
Ian Cook, 6
Yvonne Chen, 21
Tzung Hsiai, 10
Kendall Houk, 24
James Liao, 24
Harold Monbouquette, 26
Tatiana Segura, 27
Stephanie Seidlits, 15
Michael Teitell, 16
Yi Tang, 28

CERAMICS AND CERAMIC PROCESSING
Mathieu Bauchy, 31
Bruce Dunn, 92
Mark Goorsky, 93
Vijay Gupta, 108
Jiann-Wen (Woody) Ju, 34
Ioanna Kakoulli, 94
Richard Kaner, 94
<table>
<thead>
<tr>
<th>Suneel Kodambaka, 95</th>
<th>Alexander Sherstov, 57</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christopher Lynch, 115</td>
<td>David Smallberg, 57</td>
</tr>
<tr>
<td>Vidvuds Ozolins, 96</td>
<td></td>
</tr>
<tr>
<td>Laurent Pilon, 117</td>
<td></td>
</tr>
<tr>
<td>Guarav Sant, 36</td>
<td></td>
</tr>
<tr>
<td>Benjamin Wu, 18</td>
<td></td>
</tr>
</tbody>
</table>

**CIRCUITS AND EMBEDDED SYSTEMS**

| Asad Abidi, 65             |                                |
| Danijela Cabric, 66        |                                |
| M.C. Frank Chang, 67       |                                |
| Babak Daneshrad, 69        |                                |
| Puneet Gupta, 71           |                                |
| Lei He, 71                 |                                |
| Yongjie Hu, 110            |                                |
| Subramanian Iyer, 73       |                                |
| William Kaiser, 75         |                                |
| Dejan Markovic, 76         |                                |
| Ankur M. Mehta, 77         |                                |
| Sudhakar Pamarti, 79       |                                |
| Behzad Razavi, 81          |                                |
| Henry Samuei, 82           |                                |
| Majid Sarrafzadeh, 56      |                                |
| Mani Srivastava, 83        |                                |
| Paulo Tabuada, 84          |                                |
| Yuanxan Ethan Wang, 87     |                                |
| C.-K. Ken Yang, 89         |                                |

**COMPUTATIONAL SYSTEMS BIOLOGY**

| Joseph DiStefano III, 45  |                                |
| Daniel Ennis, 8            |                                |
| Jason Ernst, 47            |                                |
| Eleazar Eskin, 47          |                                |
| Christopher Lee, 50        |                                |
| Stanley Osher, 52          |                                |
| D. Stott Parker, 53        |                                |
| Sriram Sankararaman, 55    |                                |
| Ren Sun, 16                |                                |
| Ameet Talwalkar, 58        |                                |
| Wei Wang, 60               |                                |

**COMPUTER SCIENCE THEORY**

| Eliezer Gafni, 48          |                                |
| Rafail Ostrovsky, 52       |                                |
| Glenn Reinman, 54          |                                |
| Amit Sahai, 55             |                                |

**COMPUTER SYSTEM ARCHITECTURE AND COMPUTER-ASSISTED DESIGN (CAD)**

| Jason Cong, 44             |                                |
| Milos Ercegovac, 46        |                                |
| Puneet Gupta, 71           |                                |
| Lei He, 71                 |                                |
| William Kaiser, 75         |                                |
| Miodrag Potkonjak, 54      |                                |
| Majid Sarrafzadeh, 56      |                                |
| Yuval Tamir, 59            |                                |
| Demetri Terzopoulos, 59    |                                |

**ELECTRICAL AND OPTICAL MATERIALS**

| Jane P. Chang, 21          |                                |
| Yong Chen, 104             |                                |
| Ian Cook, 6                |                                |
| Bruce Dunn, 92             |                                |
| Mark Goorsky, 93           |                                |
| Yongjie Hu, 110            |                                |
| Yu Huang, 93               |                                |
| Richard Kaner, 94          |                                |
| Suneel Kodambaka, 95       |                                |
| Jia-Ming Liu, 76           |                                |
| Christopher Lynch, 115      |                                |
| Aydogan Ozcan, 78          |                                |
| Vidvuds Ozolins, 96        |                                |
| C. Kumar Patel, 79         |                                |
| Qibing Pei, 97             |                                |
| Laurent Pilon, 117         |                                |
| Oscar Stafsudd, 84         |                                |
| Dwight Streit, 97          |                                |
| Sarah Tolbert, 98          |                                |
| King-Ning Tu, 98           |                                |
| Benjamin Williams, 88      |                                |
| Chee Wei Wong, 88          |                                |
| Ya-Hong Xie, 99            |                                |
| Yang Yang, 100             |                                |

**ENVIRONMENTAL ENGINEERING**

| Mekonnen Gebremichael, 32  |                                |
| Lei He, 71                 |                                |
| Eric Hoek, 33              |                                |
Jennifer Jay, 33
Dennis Lettenmaier, 34
Shaily Mahendra, 35
Guarav Sant, 36
Selim Senkan, 27
Michael Stenstrom, 36
Keith Stolzenbach, 37

FLUID MECHANICS
Mohamed Abdou, 103
Russell Caflisch, 92
Dino Di Carlo, 7
Jeff Eldredge, 106
Daniel Ennis, 8
Ann Karagozian, 111
H. Pirouz Kavehpour, 112
J. John Kim, 113
R. Mitchell Spearrin, 118
Richard Wirz, 120
Xiaolin Zhong, 120

GEOTECHNICAL ENGINEERING
Scott Brandenberg, 31
Henry Burton, 32
Jiann-Wen (Woody) Ju, 34
Jonathan P. Stewart, 37
Etrugrul Taciroglu, 38
Mladen Vucetic, 38

GRAPHICS AND VISION
Stanley Osher, 52
Stefano Soatto, 58
Demetri Terzopoulos, 59
Alan Yuille, 61
Song Chun Zhu, 62

HEAT AND MASS TRANSFER
Mohamed Abdou, 103
Vijay K. Dhir, 105
Yongjie Hu, 110
Yongho Sungtaek Ju, 111
Ann Karagozian, 111
H. Pirouz Kavehpour, 112
Adrienne Lavine, 114
Laurent Pilon, 117
Guarav Sant, 36
Richard Wirz, 120

HYDROLOGY AND WATER RESOURCES
Panagiotis Christofides, 22
Yoram Cohen, 22
Mekonnen Gebremichael, 32
Lei He, 71
Yongho Sungtaek Ju, 111
Dennis Lettenmaier, 34
Steven Margulis, 35
Michael Stenstrom, 36
Keith Stolzenbach, 37
Ya-Hong Xie, 99
William W-G Yeh, 39

INFORMATION AND DATA MANAGEMENT
Abeer Alwan, 65
Junghoo (John) Cho, 43
Tyson Condie, 43
James Davis, 23
Mario Gerla, 48
Lei He, 71
William Kaiser, 75
Stanley Osher, 52
D. Stott Parker, 53
Gregory Pottie, 80
Izhak Rubin, 82
Stefano Soatto, 58
Ameet Talwalkar, 58
Mihaela van der Schaar, 85
Wei Wang, 60
Carlo Zaniolo, 61
Lixia Zhang, 62

MANUFACTURING AND DESIGN
James F. Davis, 23
Rajit Gadh, 106
Nasr Ghoniem, 107
Vijay Gupta, 108
Lei He, 71
Jonathan Hopkins, 109
Yongjie Hu, 110
Xiaochun Li, 114
Ajit Mal, 116
Ankur Mehta, 77
Jacob Rosen, 117
Veronica Santos, 118
Tsu-Chin Tsao, 119
Chee Wei Wong, 88

**MEDICAL IMAGING INFORMATICS**
Denise Aberle, 5
M.C. Frank Chang, 67
Mark Cohen, 5
Ian Cook, 6
Debiao Li, 12
Stanley Osher, 52
Aydogan Ozcan, 78
D. Stott Parker, 53
Laurent Pilon, 117
Majid Sarrafzadeh, 56
Stefano Soatto, 58
R. Mitchell Spearrin, 118
Oscar Stafsudd, 84
Demetri Terzopoulos, 59

**MEMS AND NANOTECHNOLOGY**
Robert Candler, 67
Gregory Carman, 104
Yong Chen, 104
Eric P.Y. Chiou, 105
Ian Cook, 6
Dino Di Carlo, 7
Chih-Ming Ho, 108
Jonathan Hopkins, 109
Yongjie Hu, 110
Yongho Sungtaek Ju, 111
H. Pirouz Kavehpour, 112
Chang-Jin (CJ) Kim, 112
Xiaochun Li, 114
Wentai Liu, 13
Stanley Osher, 52
Qibing Pei, 97
Laurent Pilon, 117
Michael Teitell, 16
Paul Weiss, 99
Benjamin Williams, 88
Ya-Hong Xie, 99

**MOLECULAR AND CELLULAR BIOENGINEERING**
Yvonne Chen, 21
Linda Demer, 6
Timothy Deming, 7
Dino Di Carlo, 7
Robin Garrell, 9
Dean Ho, 10
Tzung Hsiai, 10
Daniel Kamei, 11
William Klug, 113
Song Li, 12
Philip A. Romero, 26
Tatiana Segura, 27
Stephanie Seidlits, 15
Yi Tang, 28
Michael Teitell, 16
Cun Yu Wang, 17
Gerard Wong, 17
Benjamin Wu, 18

**NANOENGINEERING**
Mathieu Bauchy, 31
Robert Candler, 67
Gregory Carman, 104
Jane P. Chang, 21
Panagiotis Christofides, 22
Yoram Cohen, 22
Ian Cook, 6
Dino Di Carlo, 7
Vijay Gupta, 108
Robert Hicks, 23
Yongjie Hu, 110
Yu Huang, 93
Jiann-Wen (Woody) Ju, 34
Yongho Sungtaek Ju, 111
Daniel Kamei, 11
Suneel Kodambaka, 95
William Klug, 113
Xiaochun Li, 114
Jia-Ming Liu, 76
Yunfeng Lu, 25
Harold Monbouquette, 26
Aydogan Ozcan, 78
Laurent Pilon, 117
Yahya Rahmat-Samii, 80
Tatiana Segura, 27
Michael Teitell, 16
Paul Weiss, 99
Major Research Areas

PROCESS SYSTEM ENGINEERING
Panagiotis Christofides, 22
James F. Davis, 23
Vasilios Manousiouthakis, 25

SEMI CONDUCTOR MANUFACTURING
Jane P. Chang, 20
Panagiotis Christofides, 21
Chi On Chui, 68
Robert Hicks, 23
Yu Huang, 93
Subramanian Iyer, 73
Vasilios Manousiouthakis, 25
Stanley Osher, 52
C. Kumar Patel, 79
Selim Senkan, 27
Dwight Streit, 97

SIGNALS AND SYSTEMS
Abeer Alwan, 65
Panagiotis Christofides, 22
Samuel Coogan, 68
Ian Cook, 6
Suhas Diggavi, 69
Lara Dolecek, 70
Christina Fragouli, 70
Chih-Ming Ho, 108
Tetsuya Iwasaki, 110
Alan Laub, 75
Debiao Li, 12
Wentai Liu, 13
Stanley Osher, 52
Gregory Pottie, 80
Vwani Rooychowdhury, 81
Izhak Rubin, 82
Veronica Santos, 118
Ali Sayed, 83
Stefano Soatto, 58
Jason Speyer, 119
Paulo Tabuada, 84
Lieven Vanderberghe, 85
Mihaela van der Schaar, 85
John Villasenor, 86
Richard Wesel, 87

PHYSICAL AND WAVE ELECTRONICS
Katsushi Arisaka, 66
Robert Candler, 67
M.C. Frank Chang, 67
Chi On Chui, 68
Yongjie Hu, 103
Diana Huffaker, 72
Tatsuo Itoh, 72
Bahram Jalali, 73
Mona Jarrahi, 74
Chandrashekar Joshi, 74
Jia-Ming Liu, 76
Warren Mori, 77
Stanley Osher, 52
Thomas Otis, 78
Aydogan Ozcan, 78
C. Kumar Patel, 79
Yahya Rahmat-Samii, 80
Oscar Stafsudd, 84
Dwight Streit, 97
Yuanxan Ethan Wang, 87
Paul Weiss, 99
Benjamin Williams, 88
Jason C.S. Woo, 89
Ya-Hong Xie, 99
SOFTWARE SYSTEMS
Paul Eggert, 46
Mario Gerla, 48
Lei He, 71
Miryung Kim, 48
Todd Millstein, 51
Jens Palsberg, 53
David Smallberg, 57
Yuval Tamir, 59
Lixia Zhang, 62

STRUCTURAL AND SOLID MECHANICS
Mathieu Bauchy, 31
Oddvar Bendiksen, 103
Gregory Carman, 104
Nasr Ghoniem, 107
Vijay Gupta, 108
Jonathan Hopkins, 109
Jiann-Wen (Woody) Ju, 34
William Klug, 113
Christopher Lynch, 115
Ajit Mal, 116
Jaime Marian, 95
Jacob Rosen, 117
Ertugrul Tacioglu, 38
Jian Zhang, 40

STRUCTURAL ENGINEERING AND MECHANICS
Henry Burton, 32
Gregory Carman, 104
Nasr Ghoniem, 107
Vijay Gupta, 108
Jonathan Hopkins, 109
Jiann-Wen (Woody) Ju, 34
William Klug, 113
Jacob Rosen, 117
Ertugrul Tacioglu, 38
John Wallace, 39
Jian Zhang, 40

STRUCTURAL MATERIALS
Mohamed Abdou, 103
Mathieu Bauchy, 31
Russell Caflisch, 92
Gregory Carman, 104
Jane P. Chang, 21
Yong Chen, 104
Nasr Ghoniem, 107
Vijay Gupta, 108
Robert Hicks, 23
Jonathan Hopkins, 109
Jiann-Wen (Woody) Ju, 34
Ioanna Kakoulli, 94
Richard Kaner, 94
William Klug, 113
Suneel Kodambaka, 95
Xiaochun Li, 114
Vidvuds Ozolins, 96
Guarav Sant, 36
Ertugrul Tacioglu, 38
Sarah Tolbert, 98
Benjamin Wu, 18
Jenn-Ming Yang, 100

SYSTEMS AND CONTROL
Abeer Alwan, 65
Samuel Coogan, 68
James Davis, 23
James S. Gibson, 107
Chih-Ming Ho, 108
Tetsuya Iwasaki, 110
Alan Laub, 75
Robert M’Closkey, 116
Ankur Mehta, 77
Ali Mosleh, 96
Stanley Osher, 52
Jacob Rosen, 117
Izhak Rubin, 82
Veronica Santos, 118
Ali Sayed, 83
Stefano Soatto, 58
Jason Speyer, 119
Paulo Tabuada, 84
Tsu-Chin Tsao, 119
Lieven Vanderberghe, 85
Mihaela van der Schaar, 85
Faculty by Major Cross-Disciplinary Research Areas

Cybersecurity
Healthcare Technologies
Nanoelectronics, Nanoelectronics Materials Processing
Public Health, Resource Monitoring and Protection
Renewable Energy
Sustainable Infrastructure
Systems, Dynamics and Control
Water
Wireless Sensing and Networking
Major Cross-Disciplinary Research Areas

CYBERSECURITY
Suhas Diggavi, 69
Christina Fragouli, 70
Mario Gerla, 48
Lei He, 71
Miryung Kim, 48
Songwu Lu, 50
Todd Millstein, 51
Rafael Ostrovsky, 52
Miodrag Potkonjak, 54
Amit Sahai, 55
John Villasenor, 86

HEALTHCARE TECHNOLOGIES
Denise Aberle, 5
Abeer Alwan, 65
Robert Candler, 67
M.C. Frank Chang, 67
Yvonne Chen, 21
Eric P.Y. Chiou, 105
Panagiotis Christofides, 22
Chi On Chui, 68
Mark Cohen, 5
Jason (Jingsheng) Cong, 44
Ian A. Cook, 6
Adnan Darwiche, 44
Timothy Deming, 7
Dino Di Carlo, 7
Joseph DiStefano III, 45
James Dunn, 8
Jeff Eldredge, 106
Eleazar Eskin, 47
Mario Gerla, 48
Warren Grundfest, 9
Vijay Gupta, 108
Chih-Ming Ho, 108
Dean Ho, 10
Eric Hoek, 33
Kandall Houk, 24
Tzung Hsiai, 10
Yongjie Hu, 110
Bahram Jalali, 73
Mona Jarrahi, 74
Chandrashekhar Joshi, 74
Yongho Sungtaek Ju, 111
William Kaiser, 75
Daniel Kamei, 11
Andrea Kasko, 11
Debiao Li, 12
Song Li, 12
James Liao, 13, 24
Wentai Liu, 13
Yunfeng Lu, 25
Aman Mahajan, 14
Dejan Markovic, 76
Harold Monbouquette, 26
Stanley Osher, 52
Thomas Otis, 78
Aydogan Ozcan, 78
D. Stott Parker, Jr., 53
Laurent Pilon, 117
Miodrag Potkonjak, 54
Gregory Pottie, 80
Yahya Rahmat-Samii, 80
Philip A. Romero, 26
Jacob Rosen, 117
Vvani Roychowdhury, 81
Veronica Santos, 118
Majid Sarrafzadeh, 56
Ali Sayed, 83
Jacob Schmidt, 14
Tatiana Segura, 27
Stephanie Seidlits, 15
Kalyanam Shivkumar, 15
R. Mitchell Spearrin, 118
Mani Srivastava, 83
Oscar Stafsudd, 84
Yi Tang, 28
Michael Teitell, 16
Demetri Terzopoulos, 59
Tsu-Chin Tsao, 119
Mihaela van der Schaar, 85
Gerard Wong, 17
Benjamin Wu, 18
Ya-Hong Xie, 99

NANOELECTRONICS, NANOELECTRONICS MATERIALS PROCESSING
Mathieu Bauchy, 31
Robert Candler, 67
Gregory Carman, 104
Jane P. Chang, 21
Chi On Chui, 68
Jason (Jingsheng) Cong, 44
Mario Gerla, 48
Lei He, 71
Eric Hoek, 33
Yongjie Hu, 110
Yu Huang, 93
Diana Huffaker, 72
Yongho Sungtaek Ju, 111
Richard Kaner, 94
Ann Karagozian, 111
Suneel Kodambaka, 95
Adrienne Lavine, 114
James Liao, 13, 24
Kuo-Nan Liou, 115
Yunfeng Lu, 25
Shaily Mahendra, 35
Vasilios Manousiouthakis, 25
Steven Margulis, 35
Stanley Osher, 52
Vidvuds Ozolins, 96
Laurent Pilon, 117
Miodrag Potkonjak, 54
Dante Simonetti, 28
Oscar Stafsudd, 84
Sarah Tolbert, 98
Tsu-Chin Tsao, 119
Mihaela van der Schaar, 85
Richard Wirz, 120
Ya-Hong Xie, 99
Yang Yang, 100

SUSTAINABLE INFRASTRUCTURE
Mathieu Bauchy, 31
Scott Brandenberg, 31
Jason (Jingsheng) Cong, 44
Rajit Gadh, 106
Vijay Gupta, 108
Lei He, 71
Eric Hoek, 33
Yongjie Hu, 110
Diana Huffaker, 72
Jiann-Wen (Woody) Ju, 34
Songwu Lu, 50
Shaily Mahendra, 35
Steven Margulis, 35
Aydogan Ozcan, 78
Miodrag Potkonjak, 54

RENEWABLE ENERGY
Mohamed Abdou, 103
Jane P. Chang, 21
Panagiotis Christofides, 22
Vijay Dhir, 105
Bruce Dunn, 92
Rajit Gadh, 106

PUBLiC HEALTH, RESOURCE MONiTORiNg AND PROTECTiON
Yoram Cohen, 22
Mekonnen Gebremichael, 32
Vijay Gupta, 108
Bahram Jalali, 73
Jennifer Jay, 33
Dennis Lettenmaier, 34
Shaily Mahendra, 35
Steven Margulis, 35
Aydogan Ozcan, 78
R. Mitchell Spearrin, 118
Keith Stolzenbach, 37
Yi Tang, 28
Mihaela van der Schaar, 85
Gerard Wong, 17
Benjamin Wu, 18
Ya-Hong Xie, 99

RENEw ABLE ENER gy
Mohamed Abdou, 103
Jane P. Chang, 21
Panagiotis Christofides, 22
Vijay Dhir, 105
Bruce Dunn, 92
Rajit Gadh, 106

Major Cross-Disciplinary Research Areas
Selim Senkan, 27
Mani Srivastava, 83
Jonathan Stewart, 37
Ertugrul Tacioglu, 38
Ya-Hong Xie, 99
Jenn-Ming Yang, 100
Jian Zhang, 40

SYSTEMS, DYNAMICS AND CONTROL
Abeer Alwan, 65
Robert Candler, 67
Panagiotis Christofides, 22
Yoram Cohen, 22
Samuel Coogan, 68
Joseph DiStefano III, 45
James S. Gibson, 107
Jonathan Hopkins, 109
Tetsuya Iwasaki, 110
Chandrashekhar Joshi, 74
Alan Laub, 75
Xiaochun Li, 114
Vasilios Manousiouthakis, 25
Steven Margulis, 35
Robert M’Closkey, 116
Ankur M. Mehta, 77
Ali Mosleh, 96
Stanley Osher, 52
Jacob Rosen, 117
Izhak Rubin, 82
Veronica Santos, 118
Ali H. Sayed, 83
Jason Speyer, 119
Paulo Tabuada, 84
Tsu-Chin Tsao, 119
Lieveen Vandenberghe, 85
Richard Wesel, 87

WATER
Scott Brandenberg, 31
Panagiotis Christofides, 22
Yoram Cohen, 22
Mekonnen Gebremichael, 32
Lei He, 71
Yongjie Hu, 110
Jennifer Jay, 33
Yongho Sungtaek Ju, 111

Richard Kaner, 94
Dennis Lettenmaier, 34
Kuo-Nan Liou, 115
Shaily Mahendra, 35
Steven Margulis, 35
Aydogan Ozcan, 78
Michael Stenstrom, 36
Jonathan Stewart, 37
Keith Stolzenbach, 37
Gerard Wong, 17
William W.-C. Yeh, 39

WIRELESS SENSING AND NETWORKING
Abeer Alwan, 65
Danijela Cabric, 66
Robert Candler, 67
Suhas Diggavi, 69
Christina Fragouli, 70
Rajit Gadh, 106
Mario Gerla, 48
Lei He, 71
Yongjie Hu, 110
Mona Jarrahi, 74
Chandrashekhar Joshi, 74
William Kaiser, 75
Xiaochun Li, 114
Wentai Liu, 13
Songwu Lu, 50
Steven Margulis, 35
Dejan Markovic, 76
Ankur M. Mehta, 77
Todd Millstein, 51
Stanley Osher, 52
Aydogan Ozcan, 78
Miodrag Potkonjak, 54
Gregory Pottie, 80
Yahya Rahmat-Samii, 80
Izhak Rubin, 82
Majid Sarrafzadeh, 56
Ali Sayed, 83
Mani Srivastava, 83
Mihaela van der Schaar, 85
Yuanxun Ethan Wang, 87
Benjamin Wu, 18