<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Affiliation</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agarwal, Yuvraj</td>
<td>Courtesy Professor – ECE; Assistant Professor – CS</td>
<td><a href="mailto:yuvraja@andrew.cmu.edu">yuvraja@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Alacce, John</td>
<td>Systems Administrator – ECE</td>
<td><a href="mailto:jalacce@ece.cmu.edu">jalacce@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Ambrass, Charlotte</td>
<td>Director of Finance and Sponsored Research – ECE</td>
<td><a href="mailto:ambrass@ece.cmu.edu">ambrass@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Andersen, David</td>
<td>Adjunct Professor – ECE</td>
<td><a href="mailto:dga2@andrew.cmu.edu">dga2@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Anna, Shelley L.</td>
<td>Associate Professor – MechE; Affiliated Faculty – DSSC</td>
<td><a href="mailto:sanna@andrew.cmu.edu">sanna@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Anschuetz, Lou</td>
<td>IT Manager – ECE</td>
<td><a href="mailto:lou@ece.cmu.edu">lou@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Antaki, James</td>
<td>Professor – BME; Courtesy Professor – ECE</td>
<td><a href="mailto:antaki@andrew.cmu.edu">antaki@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Atwell, Niccole</td>
<td>Senior Associate Director of Engagement and Annual Giving – ECE</td>
<td><a href="mailto:atwell@andrew.cmu.edu">atwell@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Ausavarungnirun, Rachata</td>
<td>Post Doctoral Research Associate – ECE</td>
<td><a href="mailto:rausavar@andrew.cmu.edu">rausavar@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Bain, Jim</td>
<td>Professor – ECE, MSE; Associate Director – DSSC</td>
<td><a href="mailto:jbain@ece.cmu.edu">jbain@ece.cmu.edu</a></td>
</tr>
</tbody>
</table>

**Keywords**

- Thin-film magnetic device design, fabrication, and testing; magnetic disk and tape recording
- Computer security, access control, program monitoring, security automata, policy specification

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Affiliation</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balram, Nikhil</td>
<td>Adjunct Professor – ECE</td>
<td></td>
</tr>
<tr>
<td>Bandola, Judy</td>
<td>Administrative Coordinator – ECE</td>
<td><a href="mailto:judy@ece.cmu.edu">judy@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Bauer, Lujo</td>
<td>Associate Professor – ISR, ECE</td>
<td><a href="mailto:lbauer@cmu.edu">lbauer@cmu.edu</a></td>
</tr>
</tbody>
</table>

**Keywords**

- Computer security, access control, program monitoring, security automata, policy specification

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Affiliation</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bauerle, Claire E.</td>
<td>Administrative Coordinator – ECE</td>
<td><a href="mailto:cbauerle@ece.cmu.edu">cbauerle@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Beckmann, Nathan</td>
<td>Courtesy Professor – ECE; Assistant Professor – CSD</td>
<td><a href="mailto:beckmann@cs.cmu.edu">beckmann@cs.cmu.edu</a></td>
</tr>
</tbody>
</table>
Berger, Luc  Professor  (412)-268-2919
Emeritus – Physics; Affiliated Faculty – DSSC
Bergeres, Mario  Assistant  412-268-4572
Professor – CEE; Courtesy Professor – ECE
Bhagavatula, Vijayakumar  U.A. and Helen Whitaker Professor – ECE; Affiliated Faculty – DSSC; Associate Dean of Faculty and Graduate Affairs – CIT

Keywords
Coding and signal processing for data storage, biometrics, pattern recognition

Bianchini, Ronald  Adjunct  (412)-968-9110
Professor – ECE

Keywords
Distributed fault-tolerant computing and computer networks

Bishop, Cathy  Instructor – ECE  mcbishop@andrew.cmu.edu
Blanton, Shawn  Professor – ECE  (412)-268-2987

Keywords
Test and diagnosis of heterogeneous, integrated systems

Bollapragada, Vara  Post Doctoral Research Associate – ECE sbollapr@ece.cmu.edu
Boni, Dante  Equipment Technician – Nanofab  dboni@andrew.cmu.edu
Bosle, Kevin  Senior Buyer – ECE  (412)-268-9642

Keywords
Formal hardware and software verification

Brown, Timothy X  Distinguished Service Professor – EPP, ECE  +250 78 767 40 62

Keywords
Burns, Krista  Communications Manager – ECE  kgregan@ece.cmu.edu
Carley, Kathleen
Professor – ISR; Courtesy Professor – ECE
(412)-268-6016
kathleen.carley@cs.cmu.edu

Carley, Rick
ST Microelectronics
Professor – ECE; Affiliated Faculty – DSSC
(412)-268-3597
lrc@ece.cmu.edu

Keywords
CAD and design of analog signal processing circuits and MEMS systems

Chamanzar, Maysam
Assistant Professor – ECE
412-268-3390
mchamanz@andrew.cmu.edu

Keywords
Optics, Neural Interfaces, Photonic Integrated Circuits, Plasmonics, Sensing

Chase, Steven
Courtesy Professor – ECE
schase@andrew.cmu.edu

Chen, Tsuhan
Adjunct Professor – ECE
tsuhan@ece.cmu.edu

Keywords
Multimedia coding and streaming, computer vision, pattern recognition, computer graphics, multimodal biometrics

Chi, Yuejie
Adjunct Professor – ECE
yuejie@andrew.cmu.edu

Chomas, Louis
Research Associate – DSSC; Cleanroom/MEMS Engineer – ECE
(412)-855-9077
lchomas@andrew.cmu.edu

Choset, Howie
Professor – RI; Courtesy Professor – ECE
(412)-268-2495
choset@cs.cmu.edu

Keywords
Hyper-redundant mechanisms, coverage, car-painting, de-mining, mobile robots, motion planning, hybrid controls

Chraska, Jacqueline
Administrative Coordinator – ECE
(412)-268-3096
chraska@ece.cmu.edu

Christin, Nicolas
Associate Research Professor – EPP; Assistant Research Professor – CyLab; Courtesy Professor – ECE
(412)-268-4432
nicolasc@andrew.cmu.edu
Keywords

Computer security, network security, online crime, security economics, usable security, algorithmic applications of game theory

**Chung, Pil Seung** Post Doctoral Research Associate – ChemE, DSSC (412)-268-4035 pil@cmu.edu

**Clarke Jr., Edmund** FORE Systems Professor – CS; Courtesy Professor – ECE (412)-268-2628 edmund.clarke@cs.cmu.edu

Keywords

Hardware and software verification, automatic theorem proving, symbolic computation

**Collier, Zara** Technical Academic Services Coordinator – ECE 412-268-6595 zcollier@andrew.cmu.edu

**Cominos, Lenna** Corporate Relations – ECE (412)-268-7689 cominos@andrew.cmu.edu

**Condeessa, Filipe** Post Doctoral Research Associate – ECE fcondess@andrew.cmu.edu

**Conley, Kelley** Research Administrator – ECE 412-268-3729 kelleyc@andrew.cmu.edu

**Copetas, Catherine** ECE/SCS Office of Engagement and Annual Giving – ECE copetas@andrew.cmu.edu

**Cowan, Christina** Director of Administrative Services & Office of the Department Head – ECE (412)-268-3299 ccowan@andrew.cmu.edu

**Cranor, Lorrie F.** Professor – ISR, EPP; Courtesy Professor – ECE (412)-268-7534 lorrie@cs.cmu.edu

Keywords

Usable privacy and security

**Datta, Anupam** Associate Professor – CyLab, ECE danupam@andrew.cmu.edu

**Davis, Robert** John and Claire Bertucci Distinguished Professor – MSE; Courtesy Professor – ECE (412)-268-7264 rfd@andrew.cmu.edu

**Decker, Dave** Manager of Web Development Services – ECE (412)-268-8157 ddecker@andrew.cmu.edu

**De La Torre Frade, Fernando** Courtesy Professor – ECE; Research Scientist – RI ftorre@cs.cmu.edu
Dey, Anind K. Associate Professor – HCI; Courtesy Professor – ECE
anind@cs.cmu.edu

Dolan, John Courtesy Professor – ECE; Senior Systems Scientist – RI
(412)-268-7988 jmd@cs.cmu.edu

Keywords
mobile and space robotics, human-robot interaction, mechatronics, automated manufacturing

Duo, Jian Post Doctoral Research Associate – ECE (412)-268-3052 jiand@andrew.cmu.edu

Eckhardt, Dave Courtesy Professor – ECE; Assistant Teaching Professor – CS
davide+receptionist@cs.cmu.edu

Elgersma, Steve Senior Systems & Software Engineer – ECE (412)-268-9531 elgersma@ece.cmu.edu

Erdogmus, Hakan Associate Teaching Professor – ECE hakan.erdogmus@sv.cmu.edu

Faloutsos, Christos Professor – CS; Courtesy Professor – ECE (412)-268-1457 christos@cs.cmu.edu

Keywords
Databases, data mining, multimedia indexing, performance evaluation

Falsafi, Babak Adjunct Professor – ECE, CS babak.falsafi@epfl.ch

Keywords
Computer architecture, memory systems, multiprocessor architecture, architectural support for gigascale integration, design evaluation tools

Fanti, Giulia Adjunct Faculty – ECE gfanti@andrew.cmu.edu

Fassinger, Dan P. IT Manager – ECE (412)-268-4745 danfas@ece.cmu.edu

Fatahalian, Kayvon Courtesy Professor – ECE; Assistant Professor – CS (412) 268-1234 kayvonf@cmu.edu

Fedder, Gary Howard M. Wilkoff Professor – ECE, RI; Co- (412)-268-8443 fedder@ece.cmu.edu
Director – MEMS; Affiliated
Faculty – DSSC

Keywords

Microelectromechanical systems (MEMS),
RF MEMS, inertial/bio/chemical sensors,
MEMS CAD, micro-robotics

Feenstra, Randy
Professor – Physics; Courtesy Professor – ECE
(412)-268-6961
feenstra@andrew.cmu.edu

Keywords

Molecular beam epitaxy, scanning
tunneling microscopy

Ferris, Sherri
Administrative Coordinator – ECE
(412) 268-4632
sferris@andrew.cmu.edu

Fox, Toni
Sponsored Research Assistant – CyLab
(412) 268-1657
tonif@andrew.cmu.edu

Franchetti, Franz
Professor – ECE; Faculty Director of ITS – ECE
(412)-268-8297
franzf@ece.cmu.edu

Keywords

Automatic performance tuning; automatic
software libraries generation; code
generation for multicore CPUs, high-
performance systems (HPC), GPUs,
FPGA-acceleration; logic-in-memory and
3D IC systems; domain-specific languages
and compilers

Fredrikson, Matt
Assistant Professor – ISR, CS; Courtesy Professor – ECE
(412) 268-3992
mfredrik@andrew.cmu.edu

Keywords

Security, privacy, formal methods, and
programming languages.

Frost, Brittany
Senior Sponsored Research Assistant – CyLab
412-268-1212
b frost@andrew.cmu.edu

Frost, Donna
International Scholar Coordinator – ECE
412-268-3407
d frost@andrew.cmu.edu

Furuta, Masaki
Post Doctoral Research Associate – ECE
m furuta@ece.cmu.edu
Gamble, Andrew  Laboratory Electronics  (412)-268-1110
Supervisor – DSSC  i gamble@ece.cmu.edu

Ganger, Greg  Affiliated  (412)-268-1297
Faculty – CSD; Jatras  ganger@ece.cmu.edu
Professor – ECE, CSD; Director – PDL

Keywords
cloud computing, storage/file systems, operating systems, distributed systems

Garba, Aminata  Assistant Teaching  +250 78 152 04 72
Professor – ECE  aminata@ece.cmu.edu

Geiger, Kristen  Senior Research  (412) 268-3836
Administrator – ECE  ksgeiger@andrew.cmu.edu

Gellman, Andrew J.  Lord  (412)-268-3848
Professor – ChemE; Professor – Chemistry; Affiliated  ag4u@andrew.cmu.edu
Faculty – DSSC

Ghose, Saugata  Systems Scientist – ECE  (412)-268-9192
saugata@ece.cmu.edu

Gibbons, Phil  Professor – ECE  pgibbons@andrew.cmu.edu

Gibson, Garth  Professor – CS; Courtesy  (412)-268-5890
garth@cs.cmu.edu
Professor – ECE; Affiliated Faculty – DSSC

Keywords
Computer architecture, operating systems, file systems, disk arrays

Gligor, Virgil  Professor – ECE; Co-Director – CyLab  (412)-268-9833
(412)-268-9833
Professor – ECE; Co-Director – CyLab  virgil@andrew.cmu.edu

Goldstein, Seth  Associate  (412)-268-3828
Professor – CSD; Courtesy  seth@cs.cmu.edu
Professor – ECE

Keywords
Systems Nanotechnology, Programmable Matter, Reconfigurable Computing, Parallel Computing, Compilers, Architecture

Gottron, Norman  Process  (412)-268-4205
Engineer – Nanofab  ngottron@andrew.cmu.edu

Greenfield, Anissa  Manager, Sponsored  (412)-268-3114
Research Administration – ECE  admyers@ece.cmu.edu

Greve, David  Professor Emeritus – ECE  (412)-268-3707
dg07@andrew.cmu.edu
Keywords

Semiconductor device physics and semiconductor process technology, sensors

Grieco, Patricia L. Administrative Manager – DSSC
(412)-268-6429
pg1q@andrew.cmu.edu

Griss, Martin L. Adjunct Professor – ECE
(650)-335-2805
martin.griss@west.cmu.edu

Grover, Pulkit Assistant Professor – ECE
412-268-3644
pgrover@ece.cmu.edu

Grupe, Alan Senior Facilities Manager – ECE
(412)-268-2526
alan@ece.cmu.edu

Harchol-Balter, Mor Associate Professor – CS; Courtesy Professor – ECE
(412)-268-7893
harchol@andrew.cmu.edu

Keywords

Scheduling of computer systems, workload characterization, heavy-tailed distributions

Harding, Meighan Senior Director of Operations – ECE
(412)-268-8924
meighan.harding@ece.cmu.edu

Higgs III, Fred Professor – MechE; Courtesy Professor – ECE
(412)-268-2486
higgs@andrew.cmu.edu

Keywords

Tribology, nanomanufacturing, multi-scale particle flows

Hills, Alex Distinguished Service Professor – EPP; Courtesy Professor – ECE
(907)-232-6088
ahills@cmu.edu

Keywords

Research in wireless technology and telecommunications policy

Hilton, Chad Senior Systems & Software Engineer – ECE
(412)-268-6037
chilton@ece.cmu.edu

Hoburg, James Emeritus Faculty – ECE
(412)-268-2473
hoburg@ece.cmu.edu

Keywords

Electromagnetics, electromechanics, electrohydrodynamics, microfluidics
Hoe, James C. Professor – ECE, CS; Co-Director – CALCM (412)-268-4259 jhoe@cmu.edu

Keywords

Computer architecture, high-level hardware description and synthesis

Hollis, Ralph L. Research Professor – RI; Courtesy Professor – ECE (412)-268-8264 rhollis@cs.cmu.edu

Keywords

Haptics, microassembly, dynamically stable mobile robots

Hong, Jason Courtesy Professor – ECE; Associate Professor – CS jasonh@cs.cmu.edu

Hug, Gabriela Adjunct Faculty – ECE ghug@ece.cmu.edu

Keywords

Power systems, optimization, control, energy networks, decomposition

Iannucci, Bob Director – CyLab Mobility Research Center; Distinguished Service Professor – ECE, Carnegie Mellon Silicon Valley (650) 714 1200 roberti@andrew.cmu.edu

Keywords

Mobile and embedded computing, scalable systems, sensor networks, emergency communications systems

Ilic, Jovan Associate Teaching Professor – ECE (412)-268-3943 jilic@ece.cmu.edu

Ilic, Marija Professor – ECE (412)-268-9520 milic@ece.cmu.edu

Keywords

Large-scale systems modeling and simulation; power systems control and pricing algorithms; critical infrastructures/interdependencies

Ishihara, Abe Courtesy Professor – ECE a.be.ishihara@sv.cmu.edu

Islam, Mohammad F. Assistant Professor – ChemE, MSE; Courtesy Professor – ECE (412)-268-8999 mohammad@andrew.cmu.edu
Jackson, Collin  Adjunct Professor – ECE
Jahanian, Farnam  Vice President for Research – CMU; Courtesy Professor – ECE
Jhon, Myung S.  Professor – ChemE; Affiliated Faculty – DSSC
Jia, Limin  Assistant Research Professor – CyLab, INI, ECE

Keywords
Language-based security, programming languages, logic and program verification.

Joe-Wong, Carlee  Assistant Professor – ECE

Keywords
Network economics and pricing, cloud computing, mobile/edge computing

Jordan, Angel  Emeritus University Professor – ECE, RI

Keywords
Robotics, Innovation, and Software Engineering, focusing on Technological Change and Technology Transfer

Joshi, Gauri  Adjunct Faculty – ECE

Keywords
performance analysis, cloud computing, machine learning

Kanade, Takeo  U.A. and Helen Whitaker Professor – CS, RI; Courtesy Professor – ECE

Keywords
Computer vision, autonomous systems, medical robotics

Kar, Soumya  Associate Research Professor – ECE

Keywords

Keywords

Distributed Information Processing, Multi-Agent Decision Making, Adaptive Stochastic Systems

Kass, Leona Director of Student and Academic Affairs – ECE lkass@andrew.cmu.edu
Kavcic, Aleksandar Adjunct Faculty – ECE akavcic@andrew.cmu.edu
Kelly, Shawn K. Courtesy Professor – ECE; Senior Systems Scientist – ICES skkelly@andrew.cmu.edu
Khosla, Pradeep K. Adjunct Professor – ECE; Chancellor – University of California, San Diego pkk@ece.cmu.edu

Keywords

agent-based design and control, S/W engineering for real-time systems, distributed robotics, distributed information systems, Secure Embedded Software/Systems, Sensor Networks

Kim, Hyong Drew D. Perkins Professor – ECE kim@ece.cmu.edu

Keywords

Advanced switch and network architectures, fault-tolerant network architectures, network management and control

Kimukin, Ibrahim Research Associate – ECE ikimukin@andrew.cmu.edu
Knickerbocker, Kara Administrative Coordinator – ECE krk@andrew.cmu.edu
Kochhar, Abhay Research Scientist – ECE askochha@andrew.cmu.edu
Koeske, Matt Research Administrator – ECE koeske@ece.cmu.edu
Kompalli, Suryaprakash Assistant Teaching Professor – ECE skompall@andrew.cmu.edu
Koopman, Philip Associate Professor – ECE, CS koopman@cmu.edu
Keywords

distributed embedded systems, survivable system architecture, dependability

**Kovačević, Jelena**
University Professor – ECE; University Professor – BME
(412) 268-3299
jelenak@cmu.edu

Keywords

Signal processing, biomedical, wavelets, frames, multiresolution, communications

**Kozuch, Michael A.**
Adjunct Professor – ECE
mkozuch@andrew.cmu.edu

**Krogh, Bruce H.**
Professor – ECE
(412)-268-2472
krogh@ece.cmu.edu

Keywords

Synthesis and verification of embedded control software, distributed control strategies, distributed supervisory control, information and control in wireless sensor networks, discrete event and hybrid dynamic systems

**Kryder, Mark**
Emeritus University Professor – ECE; Affiliated Faculty – DSSC
(412)-268-3513
kryder@ece.cmu.edu

Keywords

Magnetic recording, optical recording and ferroelectric materials

**Kumar, Swarun S.**
Assistant Professor – ECE
412-268-1892
swarun@cmu.edu

**Kurpiewski, Matthew**
Systems Administrator – ECE
(412) 268-1973
mkurp@andrew.cmu.edu

**Lambeth, David N.**
Emeritus – ECE
(412)-268-3674
lambeth@ece.cmu.edu

Keywords

Physical and chemical sensors, transducers, MEMS, magnetism, materials, thin films, data storage and RF devices

**Lane, Ian R.**
Associate Research Professor – ECE
ianlane@cs.cmu.edu

**Laughlin, David**
ALCOA
(412)-268-2706
dl0p@andrew.cmu.edu
Keywords

Magnetic materials, material science, electron microscopy, x-ray diffraction

Leathers, Diana Administrative Coordinator – ECE
650-335-2824
diana.leathers@sv.cmu.edu

Lehman, Philip ECE/SCS Office of Engagement and Annual Giving – ECE mingli1@andrew.cmu.edu

Li, Ming Adjunct Professor – ECE
(412)-268-6507

Li, Xin Adjunct Faculty – ECE
xinli@ece.cmu.edu

Keywords

Integrated circuits, computer-aided design

Lindenfelser, Karen Administrative Manager – PDL; Administrative Coordinator – ECE
(412)-268-6716
karen@ece.cmu.edu

Lohn, Jason D Adjunct Faculty – ECE
(650)-335-2802
jason.lohn@sv.cmu.edu

Low, Tze Meng Systems Scientist – ECE
(412) 268-5663
lowt@andrew.cmu.edu

Lucia, Brandon Assistant Professor – ECE
(412) 268-3587
blucia@ece.cmu.edu

Lynch, Aydaen Senior Systems & Software Engineer – ECE
(412)-268-5818
alynch@ece.cmu.edu

Mahouski, Michelle Academic Services Coordinator – ECE
(412)-268-4951
mmahousk@andrew.cmu.edu

Mai, Ken Principal Systems Scientist – ECE
(412)-268-8335
kenmai@ece.cmu.edu

Keywords

Digital circuit design, computer architecture, memory design, reconfigurable computing

Majetich, Sara A. Professor – Physics; Courtesy Professor – ECE; Affiliated Faculty – DSSC
(412)-268-3105
sm70@andrew.cmu.edu

Maly, Wojciech Professor Emeritus – ECE
(412)-268-6637
maly@ece.cmu.edu

Keywords

Computer-aided design and manufacturing of VLSICs
Marculescu, Diana  David Edward
Schramm Professor – ECE; Associate
Department Head for Academic
Affairs – ECE
(412)-268-1167
dianam@ece.cmu.edu

Keywords
VLSI/computer architecture, energy aware computing, CAD for integrated systems

Marculescu, Radu  Professor – ECE
(412)-268-8710
radum@ece.cmu.edu

Keywords
Embedded systems, multicore systems, on-chip communication, low-power design, cyber-physical systems.

Mattingly, Chloe  Administrative Coordinator – ECE, DSSC
(412)-268-2650
chloem@andrew.cmu.edu

Maxion, Roy  Research Professor – CS; Courtesy Professor – ECE
(412)-268-7556
maxion@cs.cmu.edu

Keywords
Computer dependability and security; information warfare; intrusion detection; system diagnosis

McCarthy, Jillian  M.S. Academic Program Advisor – ECE
(412) 268-3077
jrmccart@andrew.cmu.edu

McHenry, Michael E.  Professor – MSE; Affiliated Faculty – DSSC
(412)-268-2703
mm7g@andrew.cmu.edu

McKinney, Jim  IT Manager – ECE
(412)-268-5141
jmck@ece.cmu.edu

Mehdizadeh, Emad  Post Doctoral Research Associate – ECE
emehdiza@ece.cmu.edu

Mengshoel, Ole  Principal Systems Scientist – ECE
ole.mengshoel@sv.cmu.edu

Miskov-Zivanov, Natasa  Adjunct Faculty – ECE
(412)-268-9873
nmiskov@andrew.cmu.edu

Moe, Tara  Director of Graduate Affairs – ECE
(412)-268-6327
taramoe@ece.cmu.edu

Moneck, Matthew  Executive Manager, ECE Nanofabrication Facility – Nanofab; Research Scientist – DSSC
(412)-268-5430
mmoneck@andrew.cmu.edu

Morchower, Bari  Student Organizations and Activities Advisor – ECE
(412) 268-1470
bmorchow@andrew.cmu.edu
Morgan, Granger Professor – ECE; Lord Professor – EPP
Keywords
Technology and policy including climate change and electric power
(412)-268-2672
gm5d@andrew.cmu.edu

Morris, James Professor – CS; Courtesy Professor – ECE
(412)-609-5000
james.morris@sv.cmu.edu

Moura, José Associate Department Head - Research & Strategic Initiatives – ECE; Philip L. and Marsha Dowd University Professor – ECE, BME; Affiliated Faculty – DSSC
Keywords
Communications, statistical signal/image, video, and multimedia processing, wavelet transforms
(412)-268-6341
moura@ece.cmu.edu

Moutis, Panayiotis Post Doctoral Research Associate – ECE
(412) 268-7114
pmoutis@andrew.cmu.edu

Mowry, Todd Professor – CS; Courtesy Professor – ECE; Co-Director – CALCM
(412)-268-3725
tcm@cs.cmu.edu

Moya, Linda Assistant Teaching Professor – ECE, SDS
412-268-8364
Ihmoya@andrew.cmu.edu

Mukherjee, Tamal Professor – ECE
(412)-268-8522
tamal@ece.cmu.edu

Mutlu, Onur Adjunct Professor – ECE
onur@cmu.edu

Keywords
Analog/RF/MEMS/biofluidic microsystem design

Nace, Bill Associate Teaching Professor – ECE
(412)-268-7027
WNace@cmu.edu
Keywords

Digital Design, Embedded Systems, Networks

Narasimhan, Priya Professor – ECE (412)-268-8801

Keywords

fault tolerance, distributed systems, embedded systems, mobile systems

Narasimhan, Srinivasa Associate Professor – RI; Courtesy Professor – ECE

Keywords

computational sensors, computer graphics, computer vision, image processing, optics

Negi, Rohit Professor – ECE; Affiliated Faculty – DSSC (412)-268-6264

Keywords

Wireless systems, networking, sensor networks, signal processing, coding for communications, information theory

Nguyen, Kimmy Event and Project Coordinator – ECE (412) 268-7138

Keywords

Scientific computing, parallel computing, computational database systems, and virtualization

Oliver, Megan Academic Services Coordinator – ECE

Keywords

O'Hallaron, David Professor – CS, ECE; Director – Intel Research Pittsburgh (412)-268-8199

Keywords

Ozdoganlar, O. Burak Affiliated Faculty – DSSC; Associate Professor – MechE

Ozdoganlar, Neslihan M.S. Academic Program Advisor – ECE (412)-268-6581
**Péraire, Cécile** Assistant Teaching Professor – ECE

**Püschel, Markus** Adjunct Professor – ECE (412)-268-3804

**Keywords**

Fast computing, algorithms, applied mathematics, and signal processing (theory, software, hardware)

**Pagliarini, Samuel** Senior Research Scientist – ECE

**Palko, Adam P.** Finance and Research Administrator – ECE (412)-268-2188

**Paramesh, Jeyanandh** Associate Professor – ECE (412)-268-1290

**Keywords**

Analog, Mixed-signal and RF/millimeter-wave Integrated Circuit Design, Digitally-assisted analog/RF IC design

**Parno, Bryan** Associate Professor – CSD, ECE (412) 268-2033

**Pasareanu, Corina** Senior Research Scientist – ECE-SV (650)-604-4767

**Patterson, Carolyn** Administrative Coordinator – ECE (412)-268-7286

**Patton, Ashley** Director of Engagement and Annual Giving – ECE awpatton@andrew.cmu.edu

**Pavlo, Andy** Courtesy Professor – ECE pavlo@cs.cmu.edu

**Peha, Jon** Professor – EPP; Courtesy Professor – ECE (412)-268-7126

**Keywords**

Telecommunications, wireless networks, internet, spectrum management, communications for homeland security, electronic commerce, developing countries, universal service, security

**Perrig, Adrian** Adjunct Professor – ECE; Professor – EPP, CS; Technical Director – CyLab (412)-268-2242

adrian@ece.cmu.edu
Information and systems security, focusing on network security (internet, mobile computing, and sensor networks) as well as on trusted computing.

Phelps, Shelley Senior Administrative Coordinator – ECE (412)-268-8162
sphelps@ece.cmu.edu

Piazza, Gianluca (Gian) Professor – ECE; Director – Nanofab (412)-268-7762
piazza@ece.cmu.edu

MEMS, NEMS, nanotechnology, microfabrication, integration of electronics with M/NEMS

Pileggi, Larry Tanoto Professor – ECE (412)-268-6774
pileggi@ece.cmu.edu

Design, implementation and modeling of electronic integrated systems

Pileggi, Leah Professional Writer – ECE; Professional Assistant – ECE leahp1@andrew.cmu.edu

Platzer, Andre Assistant Professor – CS, ECE (412)-268-1558
aplatzer@cs.cmu.edu

Verification of embedded control systems, hybrid dynamical systems, cyber-physical systems, distributed hybrid systems, logic and formal methods

Popli, Nipun Post Doctoral Research Associate – ECE npopli@ece.cmu.edu

Prelich-Knight, Lyz Academic Services Coordinator – ECE (412)-268-5087
lyz@ece.cmu.edu

Racko, Angela Finance and Business Associate – ECE amracko@andrew.cmu.edu

Rajkumar, Raj Professor – ECE, CS; Co-Director – GM-CM CRL; Director – Real-Time and Multimedia Systems Laboratory (412)-268-8707
raj@ece.cmu.edu

Embedded and real-time systems
Ramakrishnan, Bhiksha Raj  Courtesy   Professor – ECE; Associate Professor – LTI

Reddy, Raj  Courtesy   Professor – ECE; Mozah Bint Nasser University Professor – CS

Reyes, Brittany  Academic Services and Student Organizations Coordinator – ECE

Ricketts, David  Adjunct Professor – ECE

Keywords

Nanoscale electronics, nanoscale devices, nonlinear dynamics, analog circuits

Risley, Mason  Process Engineer – Nanofab

Rohrer, Ronald A  Professor Emeritus – ECE

Keywords

Electronic circuits, systems design automation

Rosvanis, James  Nanofab Technician – Nanofab

Rowe, Anthony  Associate Professor – ECE

Keywords

Embedded systems, distributed systems, sensor networks

Rutenbar, Rob A  Adjunct Professor – ECE

Keywords

VLSI CAD, algorithms, analog and digital circuits, automatic speech recognition

Salvador, Paul A  Associate Professor – MSE; Affiliated Faculty – DSSC

Sankaranarayanan, Aswin  Assistant Professor – ECE

Santhanam, Suresh  Principal Process Engineer – ECE

Santos, Augusto  Post Doctoral Research Associate – ECE

S
Satyanarayanan, Mahadev Carnegie Professor – CS; Courtesy Professor – ECE  
Satyanarayanan@andrew.cmu.edu (412)-268-3743  
Satyanarayanan@mynotebook.com satya@cmu.edu

Savvides, Marios Research Professor – ECE; Director – CyLab Biometrics Center  
Savvides@andrew.cmu.edu (412)-268-1142

Keywords
Biometric identification, Cyber-Physical Security, Authentication, Pattern recognition

Schlesinger, T.E. (Ed) Adjunct Professor – ECE  
Schlesinger@ece.cmu.edu

Keywords
Semiconductor devices, information storage, optoelectronic systems

Schneider, Jeff Research Professor – RI; Courtesy Professor – ECE  
Schneider@andrew.cmu.edu (412)-268-2570

Scott, Stephanie Academic Program Advisor – ECE  
Scott@ece.cmu.edu

Sekar, Vyas Assistant Professor – ECE  
Sekar@ece.cmu.edu

Keywords
Networking, Security, Systems, Software-defined networking, Internet-of-Things security

Serafin, Stephen Senior Systems Engineer – ECE  
Serafin@andrew.cmu.edu (412)-268-5716

Seshan, Srinivasan Associate Professor – CS; Courtesy Professor – ECE  
Seshan@ece.cmu.edu (412)-268-8734

Keywords
Network protocols, applications, distributed systems, mobile computing, wireless networks

Shen, John Professor – ECE  
Shen@ece.cmu.edu

Keywords
Modern superscalar processor design, instruction-level parallelism and code scheduling

Siewiorek, Daniel Buhl University Professor – HCII, ECE, CSD  
Siewiorek@ece.cmu.edu (412)-268-2570
Keywords
Computer architecture, reliability, context aware mobile computing
dps@ece.cmu.edu

Sinopoli, Bruno Professor – MechE, ECE, RI
(412)-268-9432
brunos@ece.cmu.edu

Keywords
Networked embedded control systems, sensors/actuators networks, control theory
Sirbu, Marvin Professor – EPP; Courtesy Professor – ECE
(412)-268-3436
sirbu@cmu.edu

Keywords
Telecommunications policy and economics
Sirbu, Marvin Professor – EPP;Courtesy Professor – ECE
(412)-268-3436
sirbu@cmu.edu

Keywords
Micro/nano-robotics, biologically inspired systems, nanotechnology, MEMS/NEMS
Skovira, Holly Administrative Coordinator – ECE
(412) 268-9192
hskovira@andrew.cmu.edu

Skowronski, Marek Courtesy Professor – ECE; Professor – MSE; Affiliated Faculty – DSSC
(412)-268-3436
ms3s@andrew.cmu.edu

Smailagic, Asim Courtesy Professor – ECE; Research Professor – ICES; Director – LINCS
(412)-268-7863
asim@ices.cmu.edu

Keywords
Mobile computing, computer architecture, system design methods, wearable computers
Smith Jr., Robert E. Senior Windows Systems Engineer – ECE
(412)-268-6033
robsmith@cmu.edu

Smola, Alex Professor – MLD; Courtesy Professor – ECE
(408) 759-1044
smola@andrew.cmu.edu

Snizaski, Nathan Ph.D. Academic Program Advisor – ECE
412-268-3200
nsnizask@andrew.cmu.edu

Sokalski, Vincent Assistant Research Professor – MSE; Affiliated Faculty – DSSC
(412)-268-8628
vsokalsk@andrew.cmu.edu
Song, Dawn  Adjunct Professor – ECE  xds@andrew.cmu.edu
Sreenath, Koushil  Courtesy Professor – ECE; Assistant Professor – RI  koushils@andrew.cmu.edu
Stancil, Daniel  Adjunct Professor – ECE  dstancil@ncsu.edu

Keywords
Wireless communications, nanophotonics, spin wave devices

Steenkiste, Peter  Professor – ECE, CS  (412)-268-3261

Keywords
Computer networks, distributed systems, pervasive computing

Stern, Richard  Professor – ECE, LTI, CS, BME; Lecturer – Music  mrs@ece.cmu.edu

Keywords
Automatic speech recognition, auditory perception, signal processing

Stevens, Dave  Facilities Assistant – ECE  412-268-2470
daves@andrew.cmu.edu

Stevenson, Kayleigh  Finance and Business Associate – ECE  kayleigh@ece.cmu.edu

Strojwas, Andrzej  Keithley Professor – ECE  ajs@ece.cmu.edu

Keywords
Statistically based CAD/CAM of VLSI circuits

Sullivan, Tom  Associate Teaching Professor – ECE; Lecturer – Music  (412)-268-3351

Keywords
Audio signal processing, music and sound recording applications

Sundar, Vignesh  Post Doctoral Research Associate – DSSC  vigneshs@andrew.cmu.edu

Tague, Patrick  Associate Research Professor – CyLab, INI, ECE  (650)-335-2827
patrick.tague@sv.cmu.edu

Keywords
Network security; Wireless networking
Talukdar, Sarosh  Professor Emeritus – ECE  
Keywords: Autonomous agents, distributed control, power systems, cascading failures

Tang, Xiaoying  Adjunct Professor – ECE  

Thomas, Donald  Professor Emeritus – ECE  
Keywords: Computer-aided design of single chip heterogeneous multiprocessing systems

Tims, Joshua  Systems Administrator – ECE  

Tomko, Jessica  Admissions Coordinator – ECE  

Tonguz, Ozan  Professor – ECE  
Keywords: Optical networks, wireless networks and communications systems, and high-speed networking

Towe, Elias  Professor – ECE; Albert and Ethel Grobstein Memorial Professor – MSE; Director – CNXT
Keywords: Photonics, optical networks, biophotonics, sensors, quantum phenomena in optical materials.

Ustun, Taha Selim  Assistant Teaching Professor – ECE
Keywords: Power Systems Protection, Communication in Power Networks, Distributed Generation, Microgrids and Smartgrids
<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veloso, Manuela</td>
<td>Professor – CS; Courtesy Professor – ECE</td>
<td><a href="mailto:mmv@cs.cmu.edu">mmv@cs.cmu.edu</a></td>
</tr>
<tr>
<td>Veríssimo, Paulo</td>
<td>Adjunct Professor – ECE</td>
<td><a href="mailto:pjv@di.fc.ul.pt">pjv@di.fc.ul.pt</a></td>
</tr>
<tr>
<td>Vernon, David</td>
<td>Teaching Faculty – ECE</td>
<td><a href="mailto:vernon@cmu.edu">vernon@cmu.edu</a></td>
</tr>
<tr>
<td>Vidal Alvarez, Gabriel</td>
<td>Post Doctoral Research Associate – ECE</td>
<td><a href="mailto:gvidal@andrew.cmu.edu">gvidal@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Vieira, Deb</td>
<td>Senior Multimedia Designer – ECE</td>
<td><a href="mailto:debraost@ece.cmu.edu">debraost@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Wang, Kai</td>
<td>Adjunct Professor – ECE</td>
<td><a href="mailto:wangkai@andrew.cmu.edu">wangkai@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Wang, Yao</td>
<td>Post Doctoral Research Associate – ECE</td>
<td><a href="mailto:yaowang@ece.cmu.edu">yaowang@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Wasserman, Anthony</td>
<td>Adjunct Professor – ECE</td>
<td><a href="mailto:tonyw@cmu.edu">tonyw@cmu.edu</a></td>
</tr>
<tr>
<td>Weiler, Mark</td>
<td>Equipment Manager, Nanofabrication Facility – ECE</td>
<td><a href="mailto:mweiler@andrew.cmu.edu">mweiler@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Weiss, Lee</td>
<td>Courtesy Professor – ECE; Research Professor – RI</td>
<td><a href="mailto:lew@andrew.cmu.edu">lew@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Weldon, Jeffrey</td>
<td>Associate Professor – ECE</td>
<td><a href="mailto:jweldon@ece.cmu.edu">jweldon@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Wen, Tianlong</td>
<td>Post Doctoral Research Associate – Physics, DSSC</td>
<td><a href="mailto:white@ece.cmu.edu">white@ece.cmu.edu</a></td>
</tr>
<tr>
<td>White, Robert M</td>
<td>Emeritus University Professor – ECE, EPP; Affiliated Faculty – DSSC</td>
<td><a href="mailto:white@ece.cmu.edu">white@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Will, Regis</td>
<td>Senior Systems Engineer – ECE</td>
<td><a href="mailto:rwill@andrew.cmu.edu">rwill@andrew.cmu.edu</a></td>
</tr>
<tr>
<td>Woodhead, Vickie</td>
<td>Undergraduate Advisor – ECE</td>
<td><a href="mailto:woodhead@ece.cmu.edu">woodhead@ece.cmu.edu</a></td>
</tr>
<tr>
<td>Xu, Yinliang</td>
<td>Adjunct Professor – ECE</td>
<td><a href="mailto:danielxu@andrew.cmu.edu">danielxu@andrew.cmu.edu</a></td>
</tr>
</tbody>
</table>

**Keywords**

Nanoelectronics, Heterogeneous Integration, RF and Analog Integrated Circuits, Biomedical Electronics, Carbon Nanotubes, Graphene

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**Keywords**

Magnetic nanotechnology
Yagan, Osman  Assistant Research Professor – ECE
Keywords
Wireless communications, network science, security, social networks, cyber-physical networks
(412) 268-3976 oyagan@ece.cmu.edu

Ydstie, B. Erik Professor – ChemE; Courtesy Professor – ECE
(412)-268-2235 ydstie@andrew.cmu.edu

Ye, Terry Adjunct Professor – ECE
(412) 268-5401 terryye@ece.cmu.edu

Yichye, Shahar Cleanroom Construction Protocol Manager – ECE
syichye@andrew.cmu.edu

Yu, Byron Associate Professor – ECE; Assistant Professor – BME
(412)-268-9658 byronyu@cmu.edu

Ye, Terry Adjunct Professor – ECE

Yu, Zhiyi Adjunct Professor – ECE
zhiyiyu@andrew.cmu.edu

Keywords
Neural signal processing, machine learning approaches in neuroscience, neural prosthetic systems

Zhang, Hui Professor – CS; Courtesy Professor – ECE
(412)-268-8945 hzhang@cs.cmu.edu

Keywords
Computer networks, internet, resource management, multimedia

Zhang, Jia Associate Teaching Professor – ECE jia.zhang@sv.cmu.edu

Zhang, Joy Adjunct Professor – ECE
(650)-335-2824 joy@cs.cmu.edu

Zhang, Pei Associate Research Professor – ECE
(650)-335-2823 peizhang@cmu.edu
Keywords

Sensor Networks, Embedded Systems
Zhu, Jimmy ABB
Professor – ECE; Professor – MSE, Physics; Director – DSSC
(412)-268-8373
jzhu@ece.cmu.edu

Keywords
Micromagnetics, magnetoelectronic devices, magnetic recording
Ziccardi, Chad Principal Systems Engineer – ECE
(412)-268-4453
ziccardi@ece.cmu.edu

Zurcher, Elaine Systems Administrator – ECE
(412)-268-1210
egadd@ece.cmu.edu