



# Faculty Research Area Directory 2009-2010

## APPLIED MATHEMATICS

### Computational Science

D. Anderson, Brenner, Kaxiras, Rice

### Control Theory and Communications

Brockett, Khaneja, M.A. Smith, Tarokh

### Mathematical Biology

Bossert, Brenner, Mahadevan, Nagpal, Nelson, M.A. Smith, Weitz

### Mathematical Geophysics

Farrell, Mahadevan, Rice, Tziperman

### Physical and Engineering Mathematics

Bloxham, Brenner, Hutchinson, Kaxiras, Mahadevan, P. Martin, Nelson, Rice, Suo, Tziperman, Wu

### Theoretical Computer Science

Lewis, Mitzenmacher, Rabin, Vadhan, Valiant

## APPLIED PHYSICS

### Biophysics

Aizenberg, Auguste, Brenner, Cluzel, Golovchenko, Ingber, Joshi, Mahadevan, Manoharan, Mooney, Nagpal, Needleman, Nelson, Parker, Sharad Ramanathan, Weitz, Westervelt

### Electronic and Magnetic Systems and Devices

Capasso, Clarke, Golovchenko, Ham, Hu, Kaxiras, Lieber, Loncar, Narayanamurti, Ramanathan, Westervelt

### Materials Science

Aizenberg, Auguste, Aziz, Clarke, Cluzel, Friend, Hu, Joshi, Kaxiras, Lieber, Mahadevan, Manoharan, Narayanamurti, Needleman, Sharad Ramanathan, Shriram Ramanathan, Spaepen, Vlassak, Weitz

### Oceans, Atmospheres, and Geophysics

J. Anderson, Bloxham, Farrell, Jacob, Kuang, S. Martin, McElroy, Rice, Schrag, Tziperman, Wofsy

### Optics, Electromagnetics, and Light-Matter Interactions

Capasso, Clarke, Crozier, Golovchenko, Ham, Hau, Hu, Loncar, Manoharan, Murray, Mazur

### Soft Condensed Matter

Aizenberg, Brenner, Cluzel, Golovchenko, Mahadevan, Manoharan, Murray, Needleman, Nelson, Pershan, Sharad Ramanathan, Spaepen, Weitz

### Surface and Interface Science

Aizenberg, Aziz, Cluzel, Friend, Golovchenko, Kaxiras, Mahadevan, Manoharan, Murray, Narayanamurti, Needleman, Pershan, Sharad Ramanathan, Shriram Ramanathan, Spaepen, Vlassak, Weitz

### Theory and Simulation

Brenner, Hutchinson, Kaxiras, Mahadevan, Nelson, Rice, Tziperman, Suo, Wu

## BIOENGINEERING

### Bio-Inspired Engineering

Aizenberg, Edwards, Ingber, Joshi, Mahadevan, Mooney, Nagpal, Parker, Wood

### Biomechanics

Aizenberg, Brenner, Cluzel, Edwards, Howe, Ingber, Mahadevan, Mooney, Parker, M.A. Smith, Weitz, Wood

### Cell and Tissue Engineering

Aizenberg, Auguste, Cluzel, Edwards, Ingber, Joshi, Mahadevan, Mooney, Needleman, Parker, Sharad Ramanathan, Weitz, Westervelt

### Instrumentation and Imaging

Cluzel, Howe, Parker, Weitz

### Neuroengineering

Brockett, Parker, M.A. Smith

## COMPUTER SCIENCE

### Artificial Intelligence, Multi-Agent Systems, Comp. Linguistics

Chen, Gajos, Grosz, Nagpal, Parkes, Shieber

### Bio-Inspired Robotics and Computing

Nagpal, Wood

### Computation and Economics

Brenner, Chen, Parkes

## COMPUTER SCIENCE (cont.)

### Graphics and Visualization

Gortler, Pfister, Zickler

### Human Computer Interaction

Gajos, Shieber, Pfister, Grosz

### Languages, Compilers, and Tools

Chong, Morrisett, M.D. Smith

### Networking and Systems

Brooks, Chong, Kung, Morrisett, Seltzer, M.D. Smith, Welsh

### Theory of Computation

Lewis, Mitzenmacher, Parkes, Rabin, Vadhan, Valiant

## ELECTRICAL ENGINEERING

### Circuits and VLSI

Ham, Horowitz, Pfister, Wei, Westervelt, Yang

### Communications and Signal Processing

Kung, Tarokh, Wolfe, Zickler

### Computer Engineering

Brooks, M.D. Smith, Wei, Yang

### Instrumentation and Imaging

Horowitz, Pfister, Welsh, Zickler

### Intelligent Systems and Computer Vision

Brockett, Gajos, Howe, Khaneja, Pfister, Tarokh, Wood, Zickler

### Photonics and Optical Devices

Capasso, Crozier, Hu, Loncar

### RF, Microwaves, and Antennas

Ham

### Stochastic Systems

Brockett, Khaneja, M.A. Smith, Tarokh, Wolfe

### Systems and Control

Brockett, Khaneja, M.A. Smith, Wood

## ENVIRONMENTAL SCIENCES AND ENGINEERING

### Atmospheric Chemistry and Climate Modeling

J. Anderson, Jacob, Martin, McElroy, Wofsy

### Climate Dynamics and Physical Oceanography

Schrag, Tziperman

### Energy and Technology

Aziz, Hu, Martin, Ramanathan, Schrag

### Engineering and Economic Development

Briscoe

### Environmental Chemistry

Hansel, S. Martin

### Environmental Microbiology

Hansel

### Geomechanics

Rice

### Meteorology and Atmospheric Dynamics

Farrell, Kuang

## MECHANICAL ENGINEERING

### Fluid Dynamics

Brenner, Mahadevan

### Manufacturing Systems

Abernathy

### Robotics

Brockett, Howe, M.A. Smith, Wood

### Solid Mechanics

Hutchinson, Mahadevan, Rice, Suo, Vlassak

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|--|---|--|
| <p>Note:</p> <p>For complete faculty research profiles and the most up-to-date information, visit <a href="http://www.seas.harvard.edu/directory">www.seas.harvard.edu/directory</a></p> | <b>FACULTY AFFILIATIONS</b>   |  |
|  | <ul style="list-style-type: none"> <li><span style="color: red;">●</span></li> <li><span style="color: orange;">●</span></li> <li><span style="color: yellow;">●</span></li> <li><span style="color: blue;">●</span></li> <li><span style="color: cyan;">●</span></li> <li><span style="color: green;">●</span></li> <li><span style="color: grey;">●</span></li> </ul> | <ul style="list-style-type: none"> <li>Applied Mathematics</li> <li>Applied Physics</li> <li>Bioengineering</li> <li>Computer Science</li> <li>Electrical Engineering</li> <li>Environmental Sciences and Engineering</li> <li>Mechanical Engineering</li> </ul> |

|  |   |
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| <p>Frederick H. Abernathy</p> <p><a href="mailto:fha@seas.harvard.edu">fha@seas.harvard.edu</a></p> <p><a href="http://www.hctar.org">www.hctar.org</a></p>  | <p><span style="color: grey;">●</span> Manufacturing Systems</p>  |
| <p>Joanna Aizenberg</p> <p><a href="mailto:jaiz@seas.harvard.edu">jaiz@seas.harvard.edu</a></p> <p><a href="http://www.seas.harvard.edu/aizenberg_lab">www.seas.harvard.edu/aizenberg_lab</a></p>                                  | <ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Biophysics</li> <li><span style="color: orange;">●</span> Materials Science</li> <li><span style="color: orange;">●</span> Soft Condensed Matter</li> <li><span style="color: orange;">●</span> Surface and Interface Science</li> <li><span style="color: yellow;">●</span> Bio-Inspired Engineering</li> <li><span style="color: yellow;">●</span> Biomechanics</li> <li><span style="color: yellow;">●</span> Cell and Tissue Engineering</li> </ul>  |
| <p>Donald G. M. Anderson</p> <p><a href="mailto:anderson@fas.harvard.edu">anderson@fas.harvard.edu</a></p>   | <p><span style="color: red;">●</span> Computational Science</p>   |
| <p>James G. Anderson</p> <p><a href="mailto:anderson@huarp.harvard.edu">anderson@huarp.harvard.edu</a></p> <p><a href="http://www.arp.harvard.edu">www.arp.harvard.edu</a></p>   | <ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Oceans, Atmospheres, and Geophysics</li> <li><span style="color: green;">●</span> Atmospheric Chemistry and Climate Modeling</li> </ul>  |
| <p>Debra T. Auguste</p> <p><a href="mailto:auguste@seas.harvard.edu">auguste@seas.harvard.edu</a></p> <p><a href="http://www.seas.harvard.edu/biomat/index.html">www.seas.harvard.edu/biomat/index.html</a></p>                    | <ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Biophysics</li> <li><span style="color: orange;">●</span> Materials Science</li> <li><span style="color: yellow;">●</span> Cell and Tissue Engineering</li> </ul>  |
| <p>Michael J. Aziz</p> <p><a href="mailto:aziz@seas.harvard.edu">aziz@seas.harvard.edu</a></p> <p><a href="http://www.seas.harvard.edu/matsci/people/aziz/aziz.html">www.seas.harvard.edu/matsci/people/aziz/aziz.html</a></p>     | <ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Materials Science</li> <li><span style="color: orange;">●</span> Surface and Interface Science</li> <li><span style="color: green;">●</span> Energy and Technology</li> </ul>  |
| <p>Jeremy Bloxham</p> <p><a href="mailto:jeremy_bloxham@harvard.edu">jeremy_bloxham@harvard.edu</a></p> <p><a href="http://www.fas.harvard.edu/~planets/bloxham.html">www.fas.harvard.edu/~planets/bloxham.html</a></p>            | <ul style="list-style-type: none"> <li><span style="color: red;">●</span> Physical and Engineering Mathematics</li> <li><span style="color: orange;">●</span> Oceans, Atmospheres, and Geophysics</li> </ul>  |
| <p>William H. Bossert</p> <p><a href="mailto:bossert@seas.harvard.edu">bossert@seas.harvard.edu</a></p>  | <p><span style="color: red;">●</span> Mathematical Biology</p>  |
| <p>Michael P. Brenner</p> <p><a href="mailto:brenner@seas.harvard.edu">brenner@seas.harvard.edu</a></p> <p><a href="http://www.seas.harvard.edu/brenner/Home.html">www.seas.harvard.edu/brenner/Home.html</a></p>                  | <ul style="list-style-type: none"> <li><span style="color: red;">●</span> Mathematical Biology</li> <li><span style="color: red;">●</span> Computational Science</li> <li><span style="color: red;">●</span> Physical and Engineering Mathematics</li> <li><span style="color: orange;">●</span> Biophysics</li> <li><span style="color: orange;">●</span> Soft Condensed Matter</li> <li><span style="color: orange;">●</span> Theory and Simulation</li> <li><span style="color: yellow;">●</span> Biomechanics</li> <li><span style="color: grey;">●</span> Computation and Economics</li> <li><span style="color: grey;">●</span> Fluid Dynamics</li> </ul> |
| <p>John Briscoe</p> <p><a href="mailto:jbriscoe@seas.harvard.edu">jbriscoe@seas.harvard.edu</a></p> <p><a href="http://www.johnbriscoe.seas.harvard.edu">www.johnbriscoe.seas.harvard.edu</a></p>                                  | <p><span style="color: green;">●</span> Engineering and Economic Development</p>  |
| <p>Roger W. Brockett</p> <p><a href="mailto:brockett@hrl.harvard.edu">brockett@hrl.harvard.edu</a></p> <p><a href="http://people.seas.harvard.edu/~brockett/brockett.html">people.seas.harvard.edu/~brockett/brockett.html</a></p> | <ul style="list-style-type: none"> <li><span style="color: red;">●</span> Control Theory and Communications</li> <li><span style="color: yellow;">●</span> Neuroengineering</li> <li><span style="color: cyan;">●</span> Intelligent Systems and Computer Vision</li> <li><span style="color: cyan;">●</span> Stochastic Systems</li> <li><span style="color: cyan;">●</span> Systems and Control</li> <li><span style="color: grey;">●</span> Robotics</li> </ul>  |
| <p>David M. Brooks</p> <p><a href="mailto:dbrooks@eecs.harvard.edu">dbrooks@eecs.harvard.edu</a></p> <p><a href="http://www.eecs.harvard.edu/~dbrooks">www.eecs.harvard.edu/~dbrooks</a></p>                                       | <ul style="list-style-type: none"> <li><span style="color: blue;">●</span> Networking and Systems</li> <li><span style="color: cyan;">●</span> Computer Engineering</li> </ul>  |
| <p>Federico Capasso</p> <p><a href="mailto:capasso@seas.harvard.edu">capasso@seas.harvard.edu</a></p> <p><a href="http://www.seas.harvard.edu/capasso">www.seas.harvard.edu/capasso</a></p>  | <ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Electronic and Magnetic Systems and Devices</li> <li><span style="color: orange;">●</span> Optics, Electromagnetics, and Light-Matter Interactions</li> <li><span style="color: cyan;">●</span> Photonics and Optical Devices</li> </ul>   |
| <p>Yiling Chen</p> <p><a href="mailto:yiling@seas.harvard.edu">yiling@seas.harvard.edu</a></p> <p><a href="http://www.yiling.seas.harvard.edu">www.yiling.seas.harvard.edu</a></p>   | <ul style="list-style-type: none"> <li><span style="color: blue;">●</span> Artificial Intelligence, Multi-Agent Systems, Comp. Linguistics</li> <li><span style="color: blue;">●</span> Computation and Economics</li> </ul>  |
| <p>Stephen Chong</p> <p><a href="mailto:chong@seas.harvard.edu">chong@seas.harvard.edu</a></p> <p><a href="http://people.seas.harvard.edu/~chong">http://people.seas.harvard.edu/~chong</a></p>                                    | <ul style="list-style-type: none"> <li><span style="color: blue;">●</span> Languages, Compilers, and Tools</li> <li><span style="color: blue;">●</span> Networking and Systems</li> </ul>   |
| <p>David R. Clarke</p> <p><a href="mailto:clarke@seas.harvard.edu">clarke@seas.harvard.edu</a></p> <p><a href="http://www.clarke.seas.harvard.edu">www.clarke.seas.harvard.edu</a></p>   | <ul style="list-style-type: none"> <li><span style="color: orange;">●</span> Electronic and Magnetic Systems and Devices</li> <li><span style="color: orange;">●</span> Materials Science</li> <li><span style="color: orange;">●</span> Optics, Electromagnetics, and Light-Matter Interactions</li> </ul>   |

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| Philippe Cluzel     | <b>cluzel@seas.harvard.edu</b><br>www.cluzel.seas.harvard.edu  | <ul style="list-style-type: none"> <li>○ Biophysics</li> <li>○ Materials Science</li> <li>○ Soft Condensed Matter</li> <li>○ Surface and Interface Science</li> <li>○ Biomechanics</li> <li>○ Cell and Tissue Engineering</li> <li>○ Instrumentation and Imaging</li> </ul> |
| Kenneth B. Crozier  | <b>kcrozier@seas.harvard.edu</b><br>www.seas.harvard.edu/crozier/index.html                                      | <ul style="list-style-type: none"> <li>○ Optics, Electromagnetics, and Light-Matter Interactions</li> <li>● Photonics and Optical Devices</li> </ul>  |
| David A. Edwards    | <b>dedwards@seas.harvard.edu</b><br>people.seas.harvard.edu/~dedwards  | <ul style="list-style-type: none"> <li>○ Bio-Inspired Engineering</li> <li>○ Biomechanics</li> <li>○ Cell and Tissue Engineering</li> </ul>   |
| Brian F. Farrell    | <b>farrell@seas.harvard.edu</b><br>www.fas.harvard.edu/~epsas/people/faculty/farrell                             | <ul style="list-style-type: none"> <li>● Mathematical Geophysics</li> <li>○ Oceans, Atmospheres, and Geophysics</li> <li>● Meteorology and Atmospheric Dynamics</li> </ul>  |
| Cynthia M. Friend   | <b>cfriend@seas.harvard.edu</b><br>www.chem.harvard.edu/groups/friend/index                                      | <ul style="list-style-type: none"> <li>○ Materials Science</li> <li>○ Surface and Interface Science</li> </ul>  |
| Krzysztof Gajos     | <b>kgajos@eecs.harvard.edu</b><br>http://www.eecs.harvard.edu/~kgajos/   | <ul style="list-style-type: none"> <li>● Artificial Intelligence, Multi-Agent Systems, Comp. Linguistics</li> <li>● Human Computer Interaction</li> <li>● Intelligent Systems and Computer Vision</li> </ul>  |
| Jene A. Golovchenko | <b>golovchenko@physics.harvard.edu</b><br>physics.harvard.edu/people/facpages/golovchenko.html                   | <ul style="list-style-type: none"> <li>○ Biophysics</li> <li>○ Electronic and Magnetic Systems and Devices</li> <li>○ Optics, Electromagnetics, and Light-Matter Interactions</li> <li>○ Soft Condensed Matter</li> <li>○ Surface and Interface Science</li> </ul>          |
| Steven J. Gortler   | <b>sjg@seas.harvard.edu</b><br>www.eecs.harvard.edu/~sjg   | <ul style="list-style-type: none"> <li>● Graphics and Visualization</li> </ul>  |
| Barbara J. Grosz    | <b>grosz@eecs.harvard.edu</b><br>www.grosz.seas.harvard.edu  | <ul style="list-style-type: none"> <li>● Artificial Intelligence, Multi-Agent Systems, Comp. Linguistics</li> <li>● Human Computer Interaction</li> <li>● Intelligent Systems and Computer Vision</li> </ul>  |
| Donhee Ham          | <b>donhee@seas.harvard.edu</b><br>people.seas.harvard.edu/~donhee  | <ul style="list-style-type: none"> <li>○ Electronic and Magnetic Systems and Devices</li> <li>○ Optics, Electromagnetics, and Light-Matter Interactions</li> <li>● Circuits and VLSI</li> <li>● RF, Microwaves, and Antennas</li> </ul>                                     |
| Colleen Hansel      | <b>hansel@seas.harvard.edu</b><br>www.seas.harvard.edu/envmicro/index.html                                       | <ul style="list-style-type: none"> <li>● Environmental Chemistry</li> <li>● Environmental Microbiology</li> </ul>   |
| Lene V. Hau         | <b>hau@physics.harvard.edu</b><br>www.seas.harvard.edu/haulab  | <ul style="list-style-type: none"> <li>○ Optics, Electromagnetics, and Light-Matter Interactions</li> </ul>   |
| Paul Horowitz       | <b>horowitz@physics.harvard.edu</b><br>seti.harvard.edu<br>www.physics.harvard.edu/people/facpages/horowitz.html | <ul style="list-style-type: none"> <li>● Circuits and VLSI</li> <li>○ Instrumentation and Imaging</li> </ul>  |
| Robert D. Howe      | <b>howe@seas.harvard.edu</b><br>biorobotics.harvard.edu/~howe  | <ul style="list-style-type: none"> <li>○ Biomechanics</li> <li>○ Instrumentation and Imaging</li> <li>● Intelligent Systems and Computer Vision</li> <li>○ Robotics</li> </ul>  |
| Evelyn Hu           | <b>ehu@seas.harvard.edu</b>  | <ul style="list-style-type: none"> <li>○ Electronic and Magnetic Systems and Devices</li> <li>○ Materials Science</li> <li>○ Optics, Electromagnetics, and Light-Matter Interactions</li> <li>● Photonics and Optical Devices</li> <li>● Energy and Technology</li> </ul>   |
| John W. Hutchinson  | <b>hutchinson@husm.harvard.edu</b><br>seas.harvard.edu/hutchinson  | <ul style="list-style-type: none"> <li>● Physical and Engineering Mathematics</li> <li>○ Theory and Simulation</li> <li>○ Solid Mechanics</li> </ul>  |
| Donald E. Ingber    | <b>donald.ingber@childrens.harvard.edu</b><br>wyss.harvard.edu   | <ul style="list-style-type: none"> <li>○ Biophysics</li> <li>○ Bio-Inspired Engineering</li> <li>○ Biomechanics</li> <li>○ Cell and Tissue Engineering</li> </ul>   |
| Daniel J. Jacob     | <b>djj@io.harvard.edu</b><br>www-as.harvard.edu/people/faculty/djj   | <ul style="list-style-type: none"> <li>○ Oceans, Atmospheres, and Geophysics</li> <li>● Atmospheric Chemistry and Climate Modeling</li> </ul>   |

Neel Joshi

- Biophysics
- Materials Science
- Bio-Inspired Engineering
- Theory and Simulation
- Cell and Tissue Engineering

Efthimios Kaxiras

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- Computational Science
- Physical and Engineering Mathematics
- Electronic and Magnetic Systems and Devices
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- Theory and Simulation

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- Control Theory and Communications
- Intelligent Systems and Computer Vision
- Stochastic Systems
- Systems and Control

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- Meteorology and Atmospheric Dynamics

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- Theory of Computation

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- Materials Science

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- Electronic and Magnetic Systems and Devices
- Optics, Electromagnetics, and Light-Matter Interactions
- Photonics and Optical Devices

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- Mathematical Biology
- Mathematical Geophysics
- Physical and Engineering Mathematics
- Biophysics
- Materials Science
- Soft Condensed Matter
- Surface and Interface Science
- Theory and Simulation
- Bio-Inspired Engineering
- Biomechanics
- Cell and Tissue Engineering
- Fluid Dynamics
- Solid Mechanics

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- Materials Science
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- Physical and Engineering Mathematics

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- Oceans, Atmospheres, and Geophysics
- Atmospheric Chemistry and Climate Modeling
- Energy and Technology
- Environmental Chemistry

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- Optics, Electromagnetics, and Light-Matter Interactions

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- Atmospheric Chemistry and Climate Modeling

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- Environmental Microbiology

Michael D. Mitzenmacher

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- Theoretical Computer Science
- Theory of Computation

David J. Mooney

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- Biophysics
- Bio-Inspired Engineering
- Biomechanics
- Cell and Tissue Engineering

John Gregory Morrisett

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- Languages, Compilers, and Tools
- Networking and Systems

|                         |  |   |
|-------------------------|--|---|
| Cherry A. Murray        | <b>camurray@seas.harvard.edu</b>   | <ul style="list-style-type: none"> <li>● Optics, Electromagnetics, and Light-Matter Interactions</li> <li>● Soft Condensed Matter</li> <li>● Surface and Interface Science</li> </ul>   |
| Radhika Nagpal          | <b>rad@eecs.harvard.edu</b><br>www.eecs.harvard.edu/~rad                                 | <ul style="list-style-type: none"> <li>● Mathematical Biology</li> <li>● Biophysics</li> <li>● Bio-Inspired Engineering</li> <li>● Artificial Intelligence, Multi-Agent Systems, Comp. Linguistics</li> <li>● Bio-Inspired Robotics and Computing</li> </ul>                                    |
| Venkatesh Narayanamurti | <b>venky@seas.harvard.edu</b><br>www.seas.harvard.edu/venky                              | <ul style="list-style-type: none"> <li>● Electronic and Magnetic Systems and Devices</li> <li>● Materials Science</li> <li>● Surface and Interface Science</li> </ul>   |
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