EECS Celebrates!

Celebrating the Awards and Recognition of EECS Faculty, Students and Staff

Anantha P. Chandrakasan
Department Head, EECS

MIT EECS ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

The MIT EECS Connector

Annual News from the MIT Department of Electrical Engineering & Computer Science

the MIT EECS Connector

Spring 2012

Awards & Recognition

Wojciech Matusik was awarded Sloan Research Fellowship for his work in computer graphics, particularly in data-driven materials, virtual humans, and computational photography and display.

Dana Weinstein was awarded the NSF Early Career Award to explore multi-GHz MEMS resonators using electromechanical transduction.

David Gifford was selected as a 2011 ACM Fellow. He is recognized "for contributions to distributed systems, e-commerce and content distribution."

Tomás Lozano-Pérez was named a 2012 IEEE Fellow for "contributions to robot motion planning."

Hal Abelson received the 2012 ACM SIGCSE Award for Outstanding Contribution to Computer Science Education at the 43rd SIGCSE Technical Symposium.

Tomás Palacios was awarded the Presidential Early Career Award for Scientists and Engineers.

Tim Lu was awarded the NIH Director's New Innovator Award toward his work in synthetic biology and nanotechnology. He was also named for the MIT Dougherty Professorship.

Jack Dennis was inducted into the ACM Special Interest Group on Operating Systems (SIGOPS) Hall of Fame for his intellectual and institutional contributions to the advancement of the Internet.

Pablo Parrilo received the IEEE Antonio Ruberti Outstanding Young Researcher Award for fundamental contributions to optimization theory and its applications.

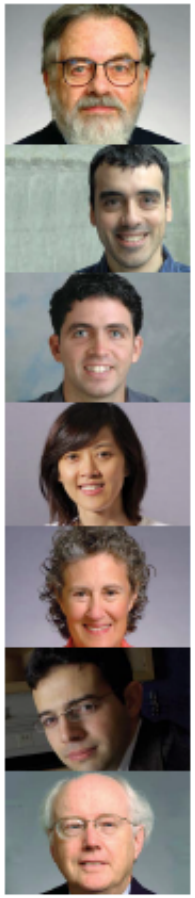
Manolis Kellis was awarded the 2011 NIH Award for his distinguished contribution to science and his research into the human genome.

Li-Shiuan Peh was named an ACM Distinguished Scientist for her work on on-chip networks, parallel architectures and mobile computing.

Barbara Liskov was awarded the Katayanagi Prize for Research Excellence for many fundamental contributions to computer science.

Fatih Yanik received the NIH Director's Pioneer Award as the youngest recipient and the only recipient of all the other top NIH Awards.

David Clark received the Oxford Internet Institute Lifetime Achievement Award for his intellectual and institutional contributions to the advancement of the Internet.



MIT EECS

Prof. Mildred Dresselhaus received the 2012 Enrico Fermi Award

May 7, 2012

MIT EECS

Prof. Barbara Liskov named to 2012 National Inventors Hall of Fame

May 2, 2012

MIT EECS

Prof. Scott Aaronson Received the 2012 Alan T. Waterman Award

May 03, 2012

MIT EECS

EECS's Big Three in Final Four (2012)

Noel Hollingsworth, Jamie Karraker, Mitchell Kates

MIT EECS

2011 MIT/EECS Faculty Research Innovation Fellows

Vladimir Bulovic

Tommi Jaakkola

Dina Katabi

Muriel Medard

MIT EECS

2012 Ruth and Joel Spira Teaching Award

Rus Tedrake

MIT EECS

The 2012 Burgess (1952) & Elizabeth Jamieson Award for Excellence in Teaching

Hari Balakrishan

John Guttag

MIT EECS

2012 Jerome Saltzer Award

Dana Weinstein

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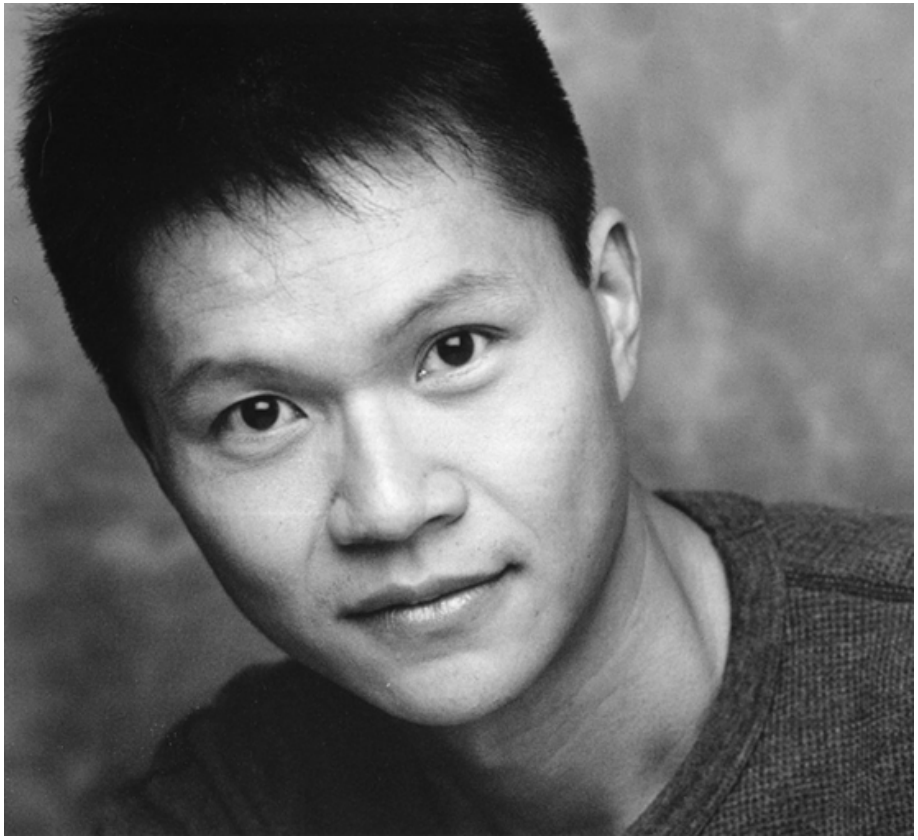
2012 Department Head Special Recognition Award



Tony Eng

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2012 Capers & Marion McDonald Award for Excellence in Mentoring and Advising

Terry P. Orlando

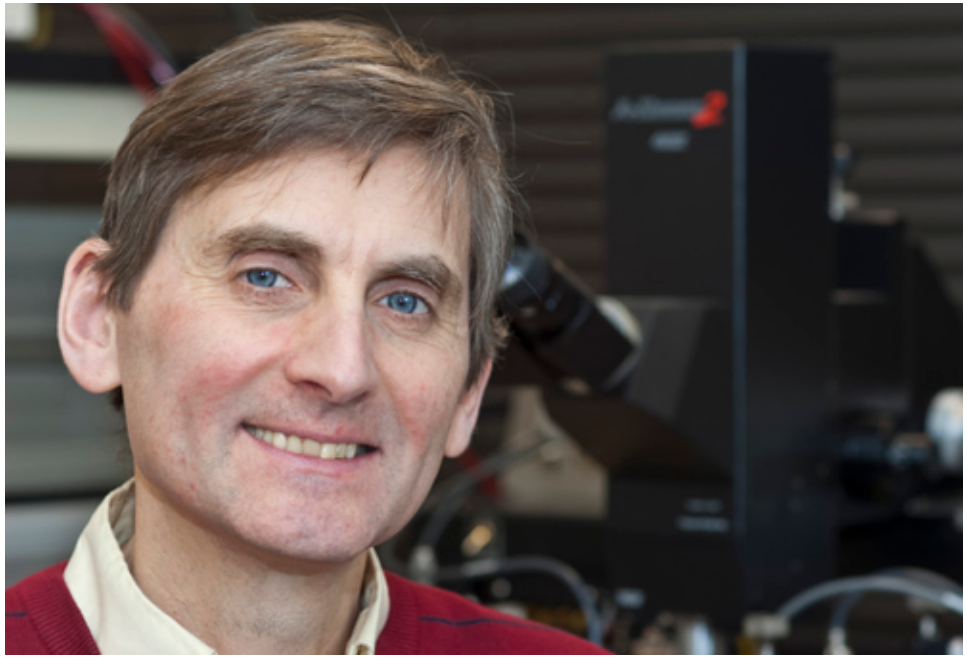
MIT EECS

2012 Richard J. Caloggero Award

Agnes Chow

MIT EECS

Jesus A. del Alamo – Student Awards Chair



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Carlton E. Tucker Teaching Award

Adam J. Hartz

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Harold L. Hazen Teaching Award

Phillip M. Nadeau

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Frederick C. Hennie III Teaching Award

Austin T. Clements

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Frederick C. Hennie III Teaching Award

Anirudh Sivaraman

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Frederick C. Hennie III Teaching Award

Joseph D. Steinmeyer

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Robert M. Fano UROP Award

Brian R. Sennett

“Waternilm”

Steven Leeb
supervisor

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J. C. R. Licklider UROP Prize for Networking or Human-Computer Interaction

Ivan A. Sergeev

”Broadcasting XORs: On the Application of Network Coding in Access Point-to-Multipoint Networks”

Muriel Medard
supervisor

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Anna Pogosyants UROP Prize in CSAIL

Panupong Pasupat

“Conditional Random Field (CRF)-based”

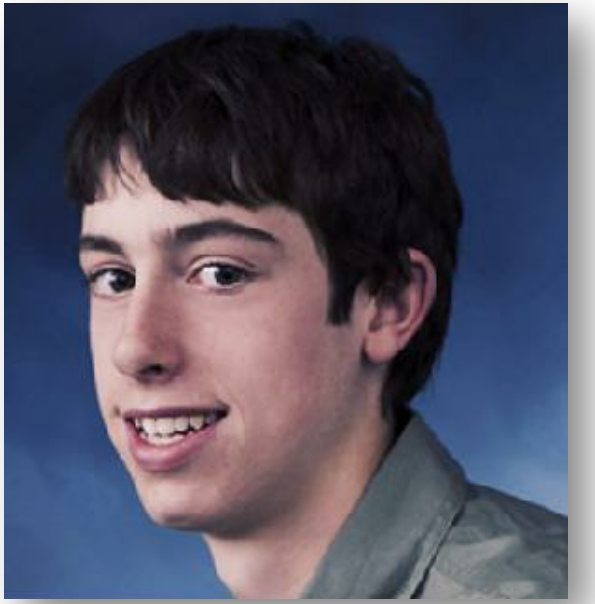
James Glass
Jing Jing Liu, supervisors

MIT EECS

Northern Telecom/BNR Project Award
6.111 Fall Term 2011

Jose Cruz Serralles

Logan P. Williams

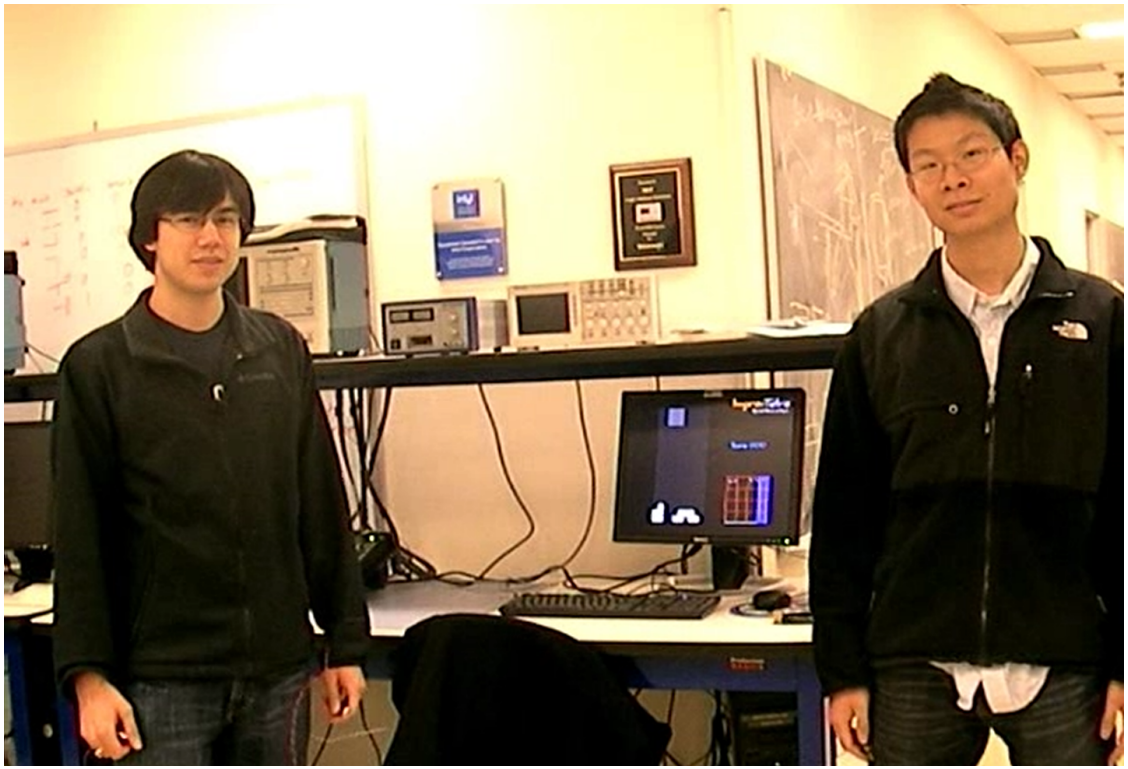


"Recursive Augmented Reality"

MIT EECS

George C. Newton UG Lab Prize
6.111 Fall Term 2011

Scott M. Bezek **Rui Luo**



"Improv Tetris"

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David A. Chanen Writing Award for outstanding paper in 6.033

Kenny H. Lam

“Ripple: Provenance Tracking File System”

MIT EECS

Charles & Jennifer Johnson
CS MEng Thesis Prize

Timothy R. Schoen

“Constraint-Aware
Distributed Robotic
Assembly and Disassembly”

Daniela Rus
supervisor

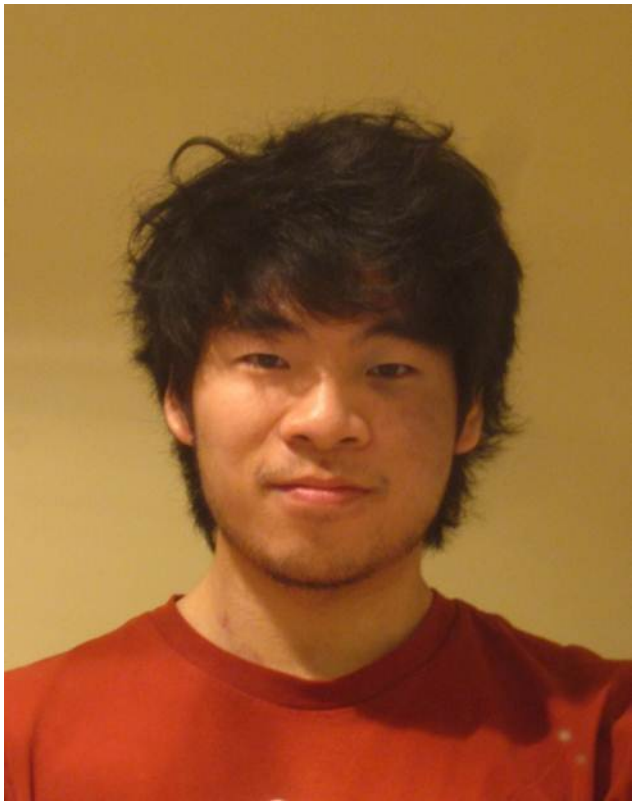
MIT EECS

David Adler Memorial EE MEng Thesis Prize

Frank M. Yaul

“A Flexible Underwater Pressure Sensor Array for Artificial Lateral Line Applications”

Jeffrey H. Lang
supervisor



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David Adler Memorial EE MEng Thesis Prize
2nd place

Jonathan P. Mailoa

"Anti-Reflection Zinc Oxide Nanocones for Higher Efficiency Thin-Film Silicon Solar Cells"

Marc Baldo
supervisor

6A thesis that is also certified by Inna Kozinsky, Robert Bosch LLC Research and Technology Center

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Morris Joseph Levin Award
Masterworks Oral Thesis Presentation

Adrian V. Dalca

“Segmentation of Nerve Bundles and Ganglia in Spine MRI using Particle Filters”

Polina Golland
supervisor

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Morris Joseph Levin Award
Masterworks Oral Thesis Presentation

Gauri Joshi

"On Playback Delay in Streaming Communication"

Gregory W. Wornell
supervisor

Also supervised by Yuval Kochman, Hebrew University, Israel

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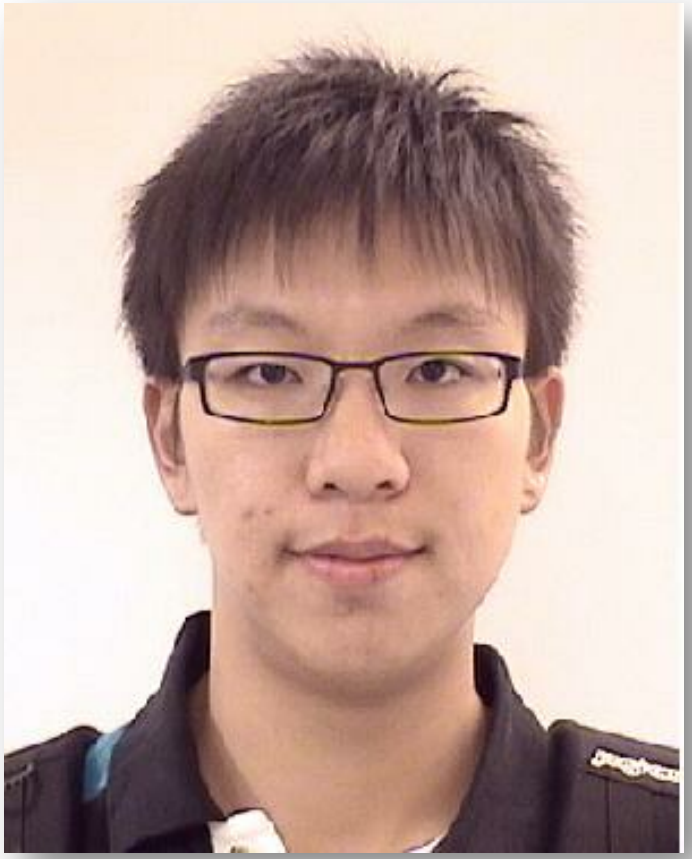
Morris Joseph Levin Award
Masterworks Oral Thesis Presentation

Yi Chang Shih

"Laser Speckle Photography for Surface Tampering Detection"

Fredo Durand
William T. Freeman
supervisors



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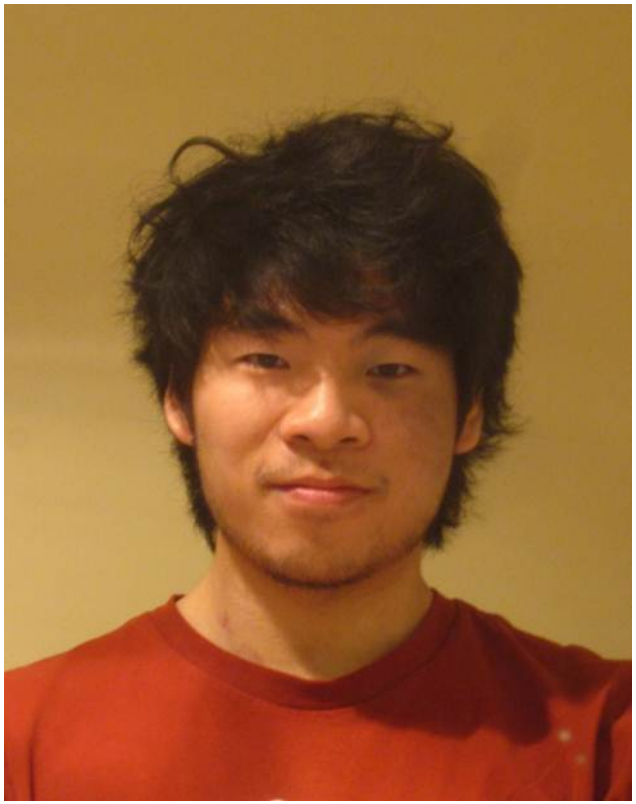
Morris Joseph Levin Award
Masterworks Oral Thesis Presentation

Frank M. Yaul

"A Flexible Underwater Pressure Sensor Array Using a Conductive Elastomer Strain Gauge"

Jeffrey H. Lang
supervisor



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J. Francis Reintjes Excellence in VI-A Industrial Practice Award

Travis R. Grusecki

NetApp
Sunnyvale, CA

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William A. Martin Memorial SM Thesis Prize for Computer Science - 1st place

Gauri Joshi

"On Playback Delay in Streaming Communication"

Gregory W. Wornell
supervisor

Also supervised by Yuval Kochman, Hebrew University, Israel

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William A. Martin Memorial SM Thesis Prize for Computer Science – 2nd place

Zeyuan A. Zhu

"Mechanism Design with Approximate Types"

Silvio Micali
supervisor

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Ernest A. Guillemin EE SM Thesis Award – 1st place

Guillaume Lestoquoy

“Resolving Optical Illumination Distributions Along An Axially Symmetric Photodetecting Fiber”

Yoel Fink
supervisor

MIT EECS

Ernest A. Guillemin EE SM Thesis Award – 2nd place

Chen Sun

"Design Space Exploration of Photonic Interconnects"

Vladimir Stojanovic supervisor

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Jin-Au Kong Outstanding Doctoral Thesis Prize

Venkat Chandrasekaran

"Convex Optimization Methods for Graphs and Statistical Modeling"

Alan S. Willsky
Pablo A. Parrilo
supervisors

MIT EECS

Jin-Au Kong Outstanding Doctoral Thesis Prize

Shu-Wei Huang

"High-Energy Sub-Cycle Optical Waveform Synthesizer"

Franz X. Kaertner
supervisor

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George M. Sprowls Scholarship Fund for Outstanding PhD Thesis in Computer Science

Michael S. Bernstein

“Crowd-Powered Systems”

David R. Karger
Rob Miller
supervisors

MIT EECS

George M. Sprowls Scholarship Fund for Outstanding PhD Thesis in Computer Science

Satchuthananthavale R. K. Branavan

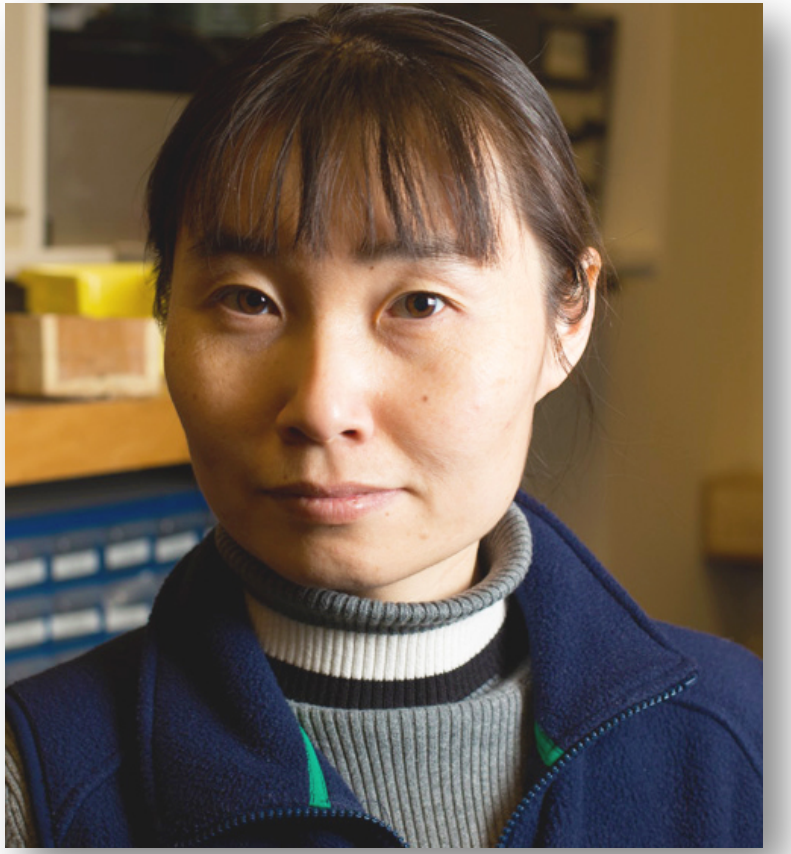
“Grounding Linguistic Analysis in Control Applications”

Regina Barzilay
supervisor

MIT EECS

Best Instructor Award – Presented by HKN

Jing Kong



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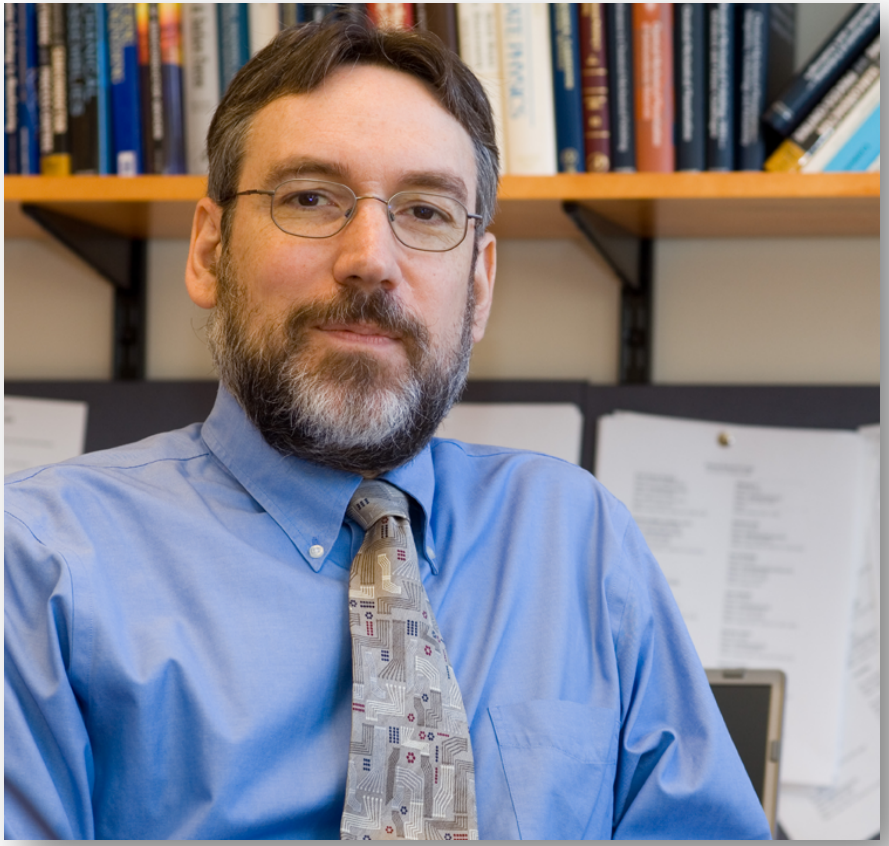
GSA Graduate Counselor Award

Terry P. Orlando

ACM/IEEE Best Advisor Award

Duane S. Boning



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