RICK E. CORY

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Education

Massachusetts Institute of Technology
Ph.D. in Electrical Engineering and Computer Science
Thesis: Supermaneuverable Perching Robots
Advisor: Dr. Russ Tedrake

Cambridge, MA
June 2010

Massachusetts Institute of Technology
M.S. in Electrical Engineering and Computer Science
Thesis: Perching with Fixed Wings
Advisor: Dr. Russ Tedrake
*Awarded Best Computer Science Master's Thesis for 2008

Cambridge, MA
February 2008

University of Southern California
B.S. in Computer Engineering and Computer Science

Los Angeles, CA
May, 2004

Professional Appointments

Walt Disney Imagineering, Research and Development
Postdoctoral Researcher
Project: Robotics

Glendale, CA
August 2010 - Present

NASA Johnson Space Center
Research Scientist, Automation and Robotics Division
Project: Autonomous Manipulation for Robonaut

Houston, TX
Summer 2005

Advanced Telecommunications Research International (ATR)
Research Engineer, Dept. of Humanoid Robotics and
Computational Neuroscience
Project: Humanoid Robot Control

Kyoto, Japan
October 2004 - April 2005

Undergraduate Research

University of Southern California
Computational Learning and Motor Control Lab
Advisor: Dr. Stefan Schaal
Project: Humanoid Robot Control

Los Angeles, CA
2002-2004

MIT Lincoln Laboratory
Information Assurance Division
Advisor: Dr. Robert Cunningham
Project: Information Security

Lexington, MA
Summer 2002, Summer 2003

California Institute of Technology
Thomas Watson Laboratories of Applied Physics
Advisor: Dr. Harry Atwater
Project: Physics of Non-Volatile Memory

Pasadena, CA
Summer 2001

Synergistic Activities

- **Awards and Honors**: 2010 Boeing Engineering Student of the Year (award presented by Boeing U.K. President at the Farnborough International Airshow in Hampshire, England), CSAIL Student Workshop Award for Best Oral Presentation (2009), MIT Masterworks Award for best Master's Thesis oral presentation (2008), Best Computer Science Master's Thesis (2008), MIT Presidential Graduate Fellowship (2005), USC Presidential Scholarship (2001), Jet Propulsion Laboratory Undergraduate Scholar Award (2001).

- **Education and Outreach**: Developed new MIT undergraduate "Humanoid Robotics Competition" Course. Helped in developing new MIT graduate course in "Underactuated Robotics". In charge of robotics exhibits and activities at MIT Museum for Cambridge Science Festival 2010.

Publications

[1] Rick Cory and Russ Tedrake. Landing on a Dime: Control of Bird Inspired Perching Maneuvers for Fixed-Wing Aircraft. In Preparation, 2010.

[2] Rick Cory. Supermaneuverable Perching. PhD Thesis, MIT. June 2010.

[3] Russ Tedrake, Rick Cory, Zack Jackowski, John William Roberts, Warren Hoburg. Learning to Fly Like a Bird. In Preparation. 2010.

[4] John W. Roberts, Rick Cory, and Russ Tedrake. On the Controllability of Fixed-Wing Perching. In *Proceedings of the American Controls Conference*. 2009.

[5] Rick Cory and Russ Tedrake. Experiments in Fixed-Wing UAV Perching. In Proceedings of the AIAA Guidance, Navigation, and Control Conference. 2008.

[6] Rick Cory. Perching with Fixed Wings. Master's Thesis, MIT. Winner of Best Computer Master's Thesis of the Year. June 2008.

[7] Rick Cory and Russ Tedrake. On the Controllability of Agile Fixed-Wing Flight. In *2007 Symposium on Flying Insects and Robots (FIR)*, August 2007.

[8] Jun Nakanishi, Rick Cory, Michael Mistry, Jan Peters, and Stefan Schaal. Operational space control: A Theoretical and Emprical Comparison. In *International Journal of Robotics Research*, 27, 6, pp.737-757. 2008.

[9] Jun Nakanishi, Rick Cory, Michael Mistry, Jan Peters, and Stefan Schaal. Comparative Experiments on Task Space Control with Redundancy Resolution. In *Proceedings of the IEEE International Conference on Intelligent Robots and Systems (IROS)*. 2005.

[10] Jan Peters, Michael Mistry, Firdaus Udwadia, Rick Cory, Jun Nakanishi, and Stefan Schaal. A Unifying Framework for the Control of Robotic Systems. In *Proceedings of the International Conference on Intelligence Robots and Systems (IROS)*. 2005.