

Contact Information

Address Department of Computer Science
Brown University, Box 1910
115 Waterman Street, 4th Floor
Providence, RI 02912-1910

Telephone 401.863.7600, 401.863.6055

Fax 401.863.7657

E-mail cjenkins@cs.brown.edu

WWW <http://www.cs.brown.edu/~cjenkins>

Education

Ph.D. Computer Science, University of Southern California, December 2003. Dissertation Title: *Data-driven Derivation of Skills for Autonomous Humanoid Agents*. Dissertation advisor: Prof. Maja J Matarić.

M.S. Computer Science, Georgia Institute of Technology, June 1998. Master's project: *A Parameterization for Simulating Dynamic Human Basketball Shooting*. Project advisor: Prof. Jessica K. Hodgins.

B.S. Computer Science and Mathematics, double major, cum laude, Alma College, April 1996.

Professional Appointments

7/2010- *Associate Professor*, Department of Computer Science, Brown University, Providence, RI.

7/2004-6/2010 *Assistant Professor*, Department of Computer Science, Brown University, Providence, RI.

10/2003-6/2004 *Postdoctoral Researcher*, Robotics Research Lab, Computer Science Department, University of Southern California, Los Angeles, CA. Supervisor: M. Matarić.

8/1998-10/2003 *Graduate Research Assistant*, Computer Science Department, University of Southern California, Los Angeles, CA. Supervisor: M. Matarić.

8/1997-6/1998 *Graduate Teaching Assistant*, College of Computing, Georgia Institute of Technology, Atlanta, GA. Supervisor: P. Enslow.

6/1997-8/1997 *CAD Engineer/Intern*, Intel Corporation, Folsom, CA. Supervisor: J. Kasak.

8/1996-6/1997 *Graduate Research Assistant*, Electronic Systems Lab, Georgia Tech Research Institute, Georgia Institute of Technology, Atlanta, GA. Supervisor: F. Wright.

5/1995-8/1995 *Systems Intern*, Ford Systems Integration Center, Ford Motor Company, Allen Park, MI. Supervisor: D. Lenardon.

5/1994-8/1994 *Undergraduate Research Intern*, PRISM Lab, Computer Science Engineering, University of Texas at Arlington, Arlington, TX. Supervisor: K. Harbison.

8/1993-5/1996 *Resident Assistant*, Office of Student Affairs, Alma College, Alma, MI. Supervisor: J. Kridler.

Publications

Books

2009 M. McGuire and O. Jenkins. *Creating Games: Mechanics, Content, and Technology*. AK Peters, 2009.

Chapters in Books

2010 M. Vondrak, L. Sigal, and O. Jenkins. Dynamics and control of multibody systems. In *Motion Control*, pages 1–30. Jan 2010.

2009 D. H. Grollman and O. C. Jenkins. Can we learn finite state machine robot controllers from interactive demonstration? In *From Motor to Interaction Learning in Robots*, pages 405–429. Springer, 2009.

2007 E. Chang and O. C. Jenkins. Sketching articulation and pose for facial animation. In Z. Deng and U. Neumann, editors, *Data-Driven 3D Facial Animation*, chapter 8, pages 132–144. Springer, 2007.

O. Jenkins, G. González, and M. Loper. Recognizing human pose and actions for interactive robots. In *Human-Robot Interaction*, chapter 6, pages 119–138. 2007.

Refereed Journal Articles

2009 J. Butterfield, O. C. Jenkins, D. Sobel, and J. Schwertfeger. Modeling aspects of Theory of Mind with Markov Random Fields. *International Journal of Social Robotics*, 1(1):41–51, Jan 2009.

2008 O. C. Jenkins. Sparse control for high-DOF assistive robots. *Intelligent Service Robotics*, 1(2):123–134, Apr 2008.

M. Nicolescu, O. Jenkins, A. Olenderski, and E. Fritzinger. Learning behavior fusion from demonstration. *Interaction Studies*, 9(2):319–352, Jun 2008.

2007 O. Jenkins, G. Gonzalez, and M. Loper. Interactive human pose and action recognition using dynamical motion primitives. *International Journal of Humanoid Robotics*, 4(2):365–385, Jun 2007.

2006 D. H. Grollman, O. C. Jenkins, and F. Wood. Discovering natural kinds of robot sensory experiences in unstructured environments. *Journal of Field Robotics*, 23(11-12):1077–1089, 2006.

M. Katzourin, D. Ignatoff, L. Quirk, J. J. LaViola, and O. C. Jenkins. Sword-play: Innovating game development through VR. *IEEE Comput. Graph. Appl.*, 26(6):15–19, 2006.

2004 O. C. Jenkins and M. J. Matarić. Performance-derived behavior vocabularies: Data-driven acquisition of skills from motion. *International Journal of Humanoid Robotics*, 1(2):237–288, Jun 2004.

2002 A. Fod, M. Matarić, and O. Jenkins. Automated derivation of primitives for movement classification. *Autonomous Robots*, 12(1):39–54, Jan 2002.

Magazine Articles

- 2009 M. Anderson, O. Jenkins, and P. Oh. The 17th annual AAAI robot exhibition and manipulation and mobility workshop. *AI Magazine*, 30(1):95–102, 2009.
- Y. Kim, P. Oh, and O. Jenkins. The AAAI 2008 robotics and creativity workshop. *AI Magazine*, 30(1):103–107, 2009.
- 2006 E. Leland, O. C. Jenkins, and K. Bradford. Robosapien localization and control. *Circuit Cellar Magazine*, 188, Mar 2006. Honorable Mention, Freescale Semiconductor Zigbee Wireless Design Challenge.

Patents

C. V. Jones, O. C. Jenkins, M. M. Loper, *System and Method for Cooperative Remote Vehicle Behavior*, U.S. Patent Pending 20080253613

Refereed Conference Papers

- 2011 C. Crick, S. Osentoski, G. Jay, and O. Jenkins. Human and robot perception in large-scale learning from demonstration. In *ACM/IEEE International Conference on Human-Robot Interaction (HRI 2011)*, 2011.
- M. Marge, A. Powers, J. Brookshire, T. Jay, O. Jenkins, and C. Geyer. Comparing heads-up, hands-free operation of ground robots to teleoperation. In *Proceedings of Robotics: Science and Systems*, Los Angeles, CA, USA, June 2011.
- S. Osentoski, G. Jay, C. Crick, B. Pitzer, C. DuHadway, and O. Jenkins. Robots as web services: Reproducible experimentation and application development using rosjs. In *International Conference on Robotics and Automation (ICRA 2011)*, 2011.
- 2010 M. Buller, W. Tharion, R. Hoyt, and O. Jenkins. Estimation of human internal temperature from wearable physiological sensors. In *Innovative Applications in Artificial Intelligence*, Atlanta, GA, 2010.
- M. Buller, A. Welles, O. Jenkins, and R. Hoyt. Extreme health sensing: the challenges, technologies, and strategies for active health sustainment of military personnel during training and combat missions. In *SPIE Sensors, and Command, Control, Communications, and Intelligence (C3I) Technologies for Homeland Security and Homeland Defense IX (Conference 7666)*, Orlando, FL, 2010.
- J. Butterfield, S. Osentoski, G. Jay, and O. Jenkins. Learning from demonstration using a multi-valued function regressor for time-series data. In *IEEE-RAS International Conference on Humanoid Robots (Humanoids 2010)*, pages 328–333, 2010.
- D. H. Grollman and O. C. Jenkins. Incremental learning of subtasks from unsegmented demonstration. In *International Conference on Intelligent Robots and Systems (IROS 2010)*, pages 261–266, Taipei, Taiwan, Oct 2010.
- 2009 M. Loper, N. Koenig, S. Chernova, O. Jenkins, and C. Jones. Mobile human-robot teaming with environmental tolerance. In *Human-Robot Interaction (HRI 2009)*, pages 157–164, San Diego, CA, USA, Mar 2009.

- A. Steinfeld, O. Jenkins, and B. Scassellati. The Oz of Wizard: Simulating the human for interaction research. In *Human-Robot Interaction (HRI 2009)*, pages 101–108, San Diego, CA, USA, Mar 2009.
- 2008 J. Butterfield, B. Gerkey, and O. Jenkins. Multi-robot Markov Random Fields. In *Autonomous Agents and Multi Agent Systems (AAMAS 2008)*, pages 1211–1214, Estoril, Portugal, May 2008.
- D. H. Grollman and O. C. Jenkins. Sparse incremental learning for interactive robot control policy estimation. In *International Conference on Robotics and Automation (ICRA 2008)*, pages 3315–3320, Pasadena, CA, USA, May 2008.
- O. C. Jenkins. Markov Random Fields models for multi-robot teams in cyber-physical systems (4 pages). In *International Conference on Intelligent Robots and Systems (IROS 2008), Special Session on Cyber Physical Systems*, Nice, France, Sep 2008.
- A. Tsoli and O. C. Jenkins. Neighborhood denoising for learning high-dimensional grasping manifolds. In *International Conference on Intelligent Robots and Systems (IROS 2008)*, pages 3680–3685, Nice, France, Sep 2008.
- M. Vondrak, L. Sigal, and O. Jenkins. Physical simulation for probabilistic motion tracking. In *Computer Vision and Pattern Recognition (CVPR 2008)*, pages 1–8, Anchorage, AK, USA, Jun 2008.
- 2007 D. Grollman and O. Jenkins. Dogged learning for robots. In *International Conference on Robotics and Automation (ICRA 2007)*, pages 2483–2488, Rome, Italy, Apr 2007.
- D. Grollman and O. Jenkins. Learning elements of robot soccer from demonstration. In *International Conference on Development and Learning (ICDL 2007)*, pages 276–281, London, England, Jul 2007.
- O. Jenkins, G. González, and M. Loper. Tracking human motion and actions for interactive robots. In *Human-Robot Interaction (HRI 2007)*, pages 365–372, Arlington, VA, USA, Mar 2007.
- M. Nicolescu, O. Jenkins, and A. Stanhope. Fusing robot behaviors for human-level tasks. In *International Conference on Development and Learning (ICDL 2007)*, pages 76–81, London, England, Jul 2007.
- J. Schwertfeger and O. Jenkins. Multi-robot belief propagation for distributed robot allocation. In *International Conference on Development and Learning (ICDL 2007)*, pages 193–198, London, England, Jul 2007.
- 2006 O. Jenkins, R. Bodenheimer, and R. Peters. Manipulation manifolds: Explorations into uncovering manifolds in sensory-motor spaces (8 pages). In *International Conference on Development and Learning (ICDL 2006)*, Bloomington, IN, USA, May-Jun 2006.
- O. C. Jenkins. 2D subspaces for sparse control of high-DOF robots. In *Intl. Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2006)*, pages 2722–2725, New York, NY, USA, Aug-Sep 2006.
- R. Peters, O. Jenkins, and R. Bodenheimer. Sensory-motor manifold structure induced by task outcome: Experiments with Robonaut. In *IEEE International Conference on Humanoid Robotics (Humanoids 2006)*, pages 484–489, Genoa, Italy, Dec 2006.

- 2005 R. A. Peters and O. C. Jenkins. Uncovering manifold structures in Robonaut’s sensory-data state space. In *IEEE International Conference on Humanoid Robotics (Humanoids 2005)*, pages 369–374, Tsukuba, Japan, Dec 2005.
- 2004 W. Bluethmann, R. Ambrose, M. Diftler, E. Huber, A. Fagg, M. Rosenstein, R. Platt, R. Grupen, C. Breazeal, A. Brooks, A. Lockerd, R. A. Peters, O. C. Jenkins, M. J. Matarić, and M. Bugajska. Building an autonomous humanoid tool user. In *IEEE International Conference on Humanoid Robots (Humanoids 2004)*, pages 402–421, Nov 2004.
- E. Drumwright, O. C. Jenkins, and M. J. Matarić. Exemplar-based primitives for humanoid movement classification and control. In *IEEE International Conference on Robotics and Automation*, pages 140–145, New Orleans, LA, USA, Apr 2004.
- O. C. Jenkins and M. J. Matarić. A spatio-temporal extension to Isomap nonlinear dimension reduction. In *The International Conference on Machine Learning (ICML 2004)*, pages 441–448, Banff, Alberta, Canada, Jul 2004.
- N. Miller, O. C. Jenkins, M. Kallmann, and M. J. Matarić. Motion capture from inertial sensing for untethered humanoid teleoperation. In *IEEE International Conference on Humanoid Robots (Humanoids 2004)*, pages 547–565, Nov 2004.
- 2003 C.-W. Chu, O. C. Jenkins, and M. J. Matarić. Markerless kinematic model and motion capture from volume sequences. In *IEEE Computer Vision and Pattern Recognition (CVPR 2003)*, pages II: 475–482, Madison, Wisconsin, USA, Jun 2003.
- D. Erol, J. Park, E. Turkay, K. Kawamura, O. Jenkins, and M. Matarić. Motion generation for humanoid robots with automatically derived behaviors. In *IEEE Systems, Man, and Cybernetics (SMC 2003)*, pages 1816–1822, Washington, DC, USA, Oct 2003.
- O. C. Jenkins and M. J. Matarić. Automated derivation of behavior vocabularies for autonomous humanoid motion. In *Autonomous Agents and Multiagent Systems (AAMAS 2003)*, pages 225–232, Melbourne, Australia, Jul 2003.
- 2002 O. C. Jenkins and M. J. Matarić. Deriving action and behavior primitives from human motion data. In *IEEE Intelligent Robots and Systems (IROS 2002)*, volume 3, pages 2551–2556, Lausanne, Switzerland, Oct 2002.
- 2000 A. Fod, M. Matarić, and O. Jenkins. Automated derivation of primitives for movement classification. In *IEEE-RAS International Conference on Humanoid Robots (Humanoids 2000)*, Cambridge, MA, USA, Oct 2000.
- O. C. Jenkins, M. Matarić, and S. Weber. Primitive-based movement classification for humanoid imitation. In *IEEE International Conference on Humanoid Robots (Humanoids 2000)*, Cambridge, MA, USA, Oct 2000.

Refereed Conference Abstracts and Videos

- 2008 D. Byers, M. Lapping-Carr, J. Kumar, T. Hinkle, D. Grollman, and O. Jenkins. Brown Robotics: Game-based learning. In *HRI 2008 Video Program*, Amsterdam, Netherlands, Mar 2008.
- D. Byers, M. Lapping-Carr, J. Kumar, T. Hinkle, D. Grollman, and O. Jenkins. Game-based robot learning. In *AAAI 2008 Video Program (Best Student Video)*, Chicago, IL, USA, Jul 2008.

- N. Koenig, S. Chernova, C. Jones, M. Loper, and O. Jenkins. Hands-free human-robot interaction. In *AAAI 2008 Video Program*, Chicago, IL, USA, Jul 2008.
- N. Koenig, S. Chernova, C. Jones, M. Loper, and O. Jenkins. Hands-free human-robot interaction. In *HRI 2008 Video Program*, Amsterdam, Netherlands, Mar 2008.
- 2007 M. Kostandov, J. Schwertfeger, O. Jenkins, R. Jianu, M. Buller, D. Hartmann, M. Loper, A. Tsoli, M. Vondrak, and W. Zhou. Robot gaming and learning using augmented reality. In *ACM SIGGRAPH Technical Posters*, San Diego, CA, USA, Aug 2007.
- 2006 S.-P. Kim, J. Simeral, O. Jenkins, J. Donoghue, and M. Black. Finding directional movement representations in motor cortical neural populations using non-linear manifold learning. In *World Congress on Medical Physics and Biomedical Engineering 2006*, Seoul, Korea, Aug 2006.
- P. Wrotek, O. Jenkins, and M. McGuire. World space servoing for character animation under simulation. In *ACM SIGGRAPH Technical Sketches*, Boston, MA, USA, Aug 2006.
- 2005 O. C. Jenkins and C. I. Swepson. Keyframing by segmentation of kinematic motion. In *ACM Symposium on Computer Animation Posters (SCA 2005)*, 2005.
- J. Mallios, N. Mehta, C. Street, and O. C. Jenkins. Modular dynamic response from motion databases. In *SIGGRAPH 2005 Posters*, 2005.
- 2000 S. Weber, M. Matarić, and O. Jenkins. Imitation using perceptuo-motor primitives. In *Autonomous Agents*, pages 136–137, Barcelona, Spain, 2000.

Refereed Workshop and Symposia Papers

- 2010 S. Osentoski, G. Jay, C. Crick, and O. Jenkins. Brown ros package: Reproducibility for shared experimentation and learning from demonstration. In *AAAI-10 Robot Workshop*, Atlanta, GA, 2010.
- S. Osentoski, G. Jay, C. Crick, and O. Jenkins. Crowdsourcing for closed loop control. In *NIPS Workshop on Computational Social Science and the Wisdom of Crowds*, 2010.
- 2009 D. H. Grollman and O. C. Jenkins. Multimap regression for perceptual aliasing in learning finite state machine robot controllers from interactive demonstration. In *Robotics: Science and Systems Workshop on Regression in Robotics*, Seattle, Washington, USA, June 2009.
- 2008 J. Butterfield, K. Dantu, B. Gerkey, O. Jenkins, and G. Sukhatme. Autonomous biconnected networks of mobile robots. In *Wireless Multihop Communications in Networked Robotics*, pages 640–646, Berlin, Germany, April 2008.
- D. Grollman and O. C. Jenkins. Learning multi-objective robot control policies from demonstration. In *International Conference on Intelligent Robots and Systems Workshop on Robot Learning*, Nice, France, Sep 2008.
- N. Koenig, S. Chernova, C. Jones, M. Loper, and O. Jenkins. Hands-free interaction for human-robot teams. In *ICRA 2008 Workshop on Social interaction with intelligent indoor robots*, Pasadena, CA, USA, May 2008.

- M. Lapping-Carr, O. Jenkins, D. Grollman, J. Schwertfeger, and T. Hinkle. Wiimote interfaces for lifelong robot learning. In *AAAI Symposium on Using AI to Motivate Greater Participation in Computer Science*, Palo Alto, CA, USA, Mar 2008.
- A. Tsoli and O. C. Jenkins. Learning 2D subspaces for user-controlled robot grasping. In *International Conference on Intelligent Robots and Systems Workshop on Robot Learning*, Nice, France, Sep 2008.
- 2007 B. Dickinson, O. Jenkins, M. Moseley, D. Bloom, and D. Hartmann. Roomba Pac-Man: Teaching autonomous robotics through embodied gaming. In *AAAI Symposium on Robot and Robot Venues: Resources for AI Education*, pages 35–39, Palo Alto, CA, USA, Mar 2007.
- D. H. Grollman and O. C. Jenkins. Learning robot soccer from demonstration: Ball grasping. In *Robotics: Science and Systems - Robot Manipulation: Sensing and Adapting to the Real World*, Jun 2007.
- D. H. Grollman and O. C. Jenkins. (machine) learning robot control policies. In *NIPS 2007 Workshop on Robotics challenges for Machine Learning*, Whistler, BC, Canada, Dec 2007.
- A. Tsoli and O. Jenkins. 2D subspaces for user-driven robot grasping. In *Robotics: Science and Systems - Robot Manipulation: Sensing and Adapting to the Real World*, Jun 2007.
- A. Tsoli and O. Jenkins. Robot grasping for prosthetic applications. In *International Symposium of Robotics Research (ISRR2007)*, Nov 2007.
- 2006 E. Chang and O. Jenkins. Sketching articulation and pose for facial animation. In *ACM SIGGRAPH/Eurographics Symposium on Computer Animation (SCA 2006)*, Vienna, Austria, Sep 2006.
- O. Jenkins, G. González, and M. Loper. Learning dynamical motion vocabularies for kinematic tracking and activity recognition. In *CVPR 2006 Workshop on Vision for Human-Computer Interaction*, New York, NY, USA, Jun 2006.
- O. Jenkins, G. González, and M. Loper. Monocular virtual trajectory estimation with dynamical primitives. In *AAAI 2006 Cognitive Robotics Workshop*, Boston, MA, USA, Jul 2006.
- O. Jenkins, R. Peters, and R. Bodenheimer. Uncovering success in manipulation. In *Robotics: Science and Systems Workshop on Manipulation in Human Environments*, Philadelphia, PA, USA, Aug 2006.
- M. Nicolescu, O. Jenkins, and A. Olenderski. Learning behavior fusion estimation from demonstration. In *IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN 2006)*, Hatfield, United Kingdom, Sep 2006.
- M. Nicolescu, O. C. Jenkins, and A. Olenderski. Behavior fusion estimation for robot learning from demonstration. In *IEEE Workshop on Distributed Intelligent Systems (DIS'06)*, pages 31–36, Prague, Czech Republic, 2006.
- P. Wrotek, O. Jenkins, and M. McGuire. Dynamo: Dynamic data-driven character control with adjustable balance. In *ACM SIGGRAPH Video Game Symposium*, Boston, MA, USA, Jul 2006.

- 2005 D. H. Grollman, O. C. Jenkins, and F. Wood. Discovering natural kinds of robot sensory experiences in unstructured environments. In *NIPS 2005 Workshop on Machine Learning Based Robotics in Unstructured Environments*, Whistler, BC, Canada, Dec 2005.
- O. C. Jenkins. Data-driven motion modeling from kinematic time-series. In *NIPS 2005 Workshop on Activity Recognition and Discovery*, Whistler, BC, Canada, Dec 2005.
- 2004 O. C. Jenkins, M. N. Nicolescu, and M. J. Matarić. Autonomy and supervision for robot skills and tasks learned from demonstration. In *AAAI-04 Workshop on Supervisory Control of Learning and Adaptive Systems*, 2004.
- 2001 O. C. Jenkins and M. J. Matarić. Primitives and behavior-based architectures for interactive entertainment. In *AAAI Spring Symposium on AI and Interactive Entertainment*, Stanford, CA, USA, Mar 2001.
- 2000 M. J. Matarić, O. C. Jenkins, A. Fod, and V. B. Zordan. Control and imitation in humanoids. In *AAAI Fall Symposium on Simulating Human Agents*, North Falmouth, MA, USA, Nov 2000.

Technical Reports

- 2005 D. H. Grollman, O. C. Jenkins, and F. Wood. Extensible data-driven classification of robot sensor data. Technical Report Technical Report, cs05-11, Brown Computer Science Department, Jul 2005.
- M. M. Loper and O. C. Jenkins. Real-time silhouette intersection by maintaining the distribution of occupancy. Technical Report Technical Report, cs05-12, Brown Computer Science Department, Jul 2005.
- 2004 O. C. Jenkins, C.-W. Chu, and M. J. Matarić. Nonlinear spherical shells for approximate principal curve skeletonization. Technical Report Technical Report, CRES-04-004, USC Center for Robotics and Embedded Systems, Feb 2004.
- N. Miller, O. C. Jenkins, M. Kallmann, and M. J. Matarić. Motion capture from inertial sensing for untethered humanoid teleoperation. Technical Report Technical Report, CRES-04-010, USC Center for Robotics and Embedded Systems, Jun 2004.
- 2003 O. C. Jenkins. Relative localization from pairwise distance relationships using kernel pca. Technical Report CRES-03-010, Center for Robotics and Embedded Systems, University of Southern California, Apr 2003.
- 2002 C.-W. Chu, O. C. Jenkins, and M. J. Matarić. Converting sequences of human volumes into kinematic motion. Technical Report CRES-02-003, Center for Robotics and Embedded Systems, University of Southern California, Sep 2002.
- O. C. Jenkins and M. J. Matarić. Modularization of human motion into actions and behaviors. Technical Report CRES-02-002, Center for Robotics and Embedded Systems, University of Southern California, Sep 2002.
- 2000 O. C. Jenkins, M. J. Matarić, and S. Weber. Primitive-based movement classification for humanoid imitation. Technical Report IRIS-00-385, Institute for Robotics and Intelligent Systems, University of Southern California, 2000.

Invited K-12 Talks

“Robot Soccer and Video Games: Careers, Technology, and Fun”

at The Paul Cuffee School, Providence, RI, USA, June, 6, 2006

at The Met Center High School, Providence, RI, USA, May, 15, 2006

at San Miguel Middle School, Providence, RI, USA, March, 8, 2006

“Careers in Video Games and Digital Media”

at Washington Prep High School, Los Angeles, CA, USA, June 8, 2002

Invited Talks

“Learning The Foundations for Humanoid Autonomy”

at National Academy of Engineering Gilbreth Lecture, Washington, DC, USA,
February 16, 2010

“Can We Crowdsource Your Robot?”

at Computer Science Colloquium, George Washington University, Washington,
DC, USA, November 10, 2010

at Robotics Engineering Seminar, Worcester Polytechnic Institute, Worcester,
MA, USA, October 25, 2010

at Google, Mountain View, CA, USA, March 24, 2010

“Challenges for Evaluation in Mobile Robotic Manipulation”

at Robotics: Science and Systems Workshop on Mobile Manipulation in Human
Environments, University of Washington, Seattle, WA, USA, June, 28, 2009

“Beyond Pairwise Similarity Kernels: Will Learning Become The Path of Least Resistance?”

at Robotics: Science and Systems Workshop on Bridging the gap between high-
level discrete representations and low-level continuous behaviors, University of
Washington, Seattle, WA, USA, June, 28, 2009

“Robot Learning from Multivalued Demonstration”

at Institute of Automatic Control Engineering, Department of Electrical Engi-
neering and Information Technology, Technical University of Munich, Munich,
Germany, October 10, 2008

at IROS Workshop: Robotics Challenges for Machine Learning II, Nice, France,
September 22, 2008

“Learning in Human-Robot Teams” (also titled *Manifold Learning in Human-Robot Teams*)

at Computer Science Colloquium, Texas A&M University, College Station, TX,
USA, April 21 2010

at Computer Science Colloquium, Rice University, Houston, TX, USA, April
20, 2010

at Computer Science Colloquium, Stevens Institute of Technology, Hoboken,
NJ, USA, January 25, 2010

at Computer Science Colloquium, Yale University, New Haven, CT, USA, Oc-
tober 29, 2009

at IEEE Robotics and Automation Society Boston, Olin College, Needham, MA, USA, September 8, 2009

at Computer Science Colloquium, University of Southern California, Los Angeles, CA, USA, January 5, 2009

at Robotics Seminar Series, Computer Science and Artificial Intelligence Laboratory, Massachusetts Institute of Technology, Cambridge, MA, USA, December 2, 2008

at Robotics and Intelligent Machines Seminar, College of Computing, Georgia Institute of Technology, Atlanta, GA, USA, November 19, 2008

at Columbia Vision and Graphics Center Distinguished Lecture Series, Department of Computer Science, Columbia University, New York, NY, USA, November 13, 2008

at Computer Science Colloquium, School of Engineering and Applied Sciences, Harvard University, Cambridge, MA, USA, October 23, 2008

at Intelligent Autonomous Systems Group, Computer Science Department, Technical University of Munich, Garching, Germany, October 16, 2008

at Department of Robotic Systems, German Aerospace Center (DLR), Oberpfaffenhofen-Wessling, Germany, October 13, 2008

at CoTeSys International Workshop on Cognition for Technical Systems, Munich, Germany, October 6, 2008

at Forum for Artificial Intelligence, Department of Computer Science, University of Texas at Austin, Austin, TX, USA, September 11, 2008

at Computer Science Department, University of Minnesota, Minneapolis, MN, USA, September 8, 2008

at Willow Garage, Palo Alto, CA, USA, August 12, 2008

at Orthopaedic Research Seminar, Brown University Medical School, Providence, RI, USA, March 12, 2008

at Robotics Institute Seminar, Carnegie Mellon University, Pittsburgh, PA, USA, February 15, 2008

“Brown University Robotics: A Review Worth 1,000,000 Words”

at Center for Healthcare Robotics, Health Systems Institute, Atlanta, GA, USA, October 12, 2007

“Innate and Adaptive Behavior in Lifelong Robot Learning”

at Performance Metrics for Intelligent Systems Workshop, Gaithersburg, MD, USA, August 29, 2007

“Multi-Robot Belief Propagation”

at R:SS Workshop on Robotic Sensor Networks: Principles and Practice, Robotics:Science and Systems, Atlanta, GA, USA, June 30, 2007

“Manifolds on the Brain”

at NIPS Workshop on Novel Applications of Dimension Reduction, Neural Information Processing Systems, Whistler, BC, Canada, December 9, 2006

“Dynamic Motion Capture with Adjustable Character Balance”

at Interactive Media and Game Development Seminar, Computer Science Department, Worcester Polytechnic Institute, Worcester, MA, USA, November 30, 2006

at Intel Research, Santa Clara, CA, USA, August 12, 2006

“Learning to Bridge the Human-Robot Divide”

at Control, Instrumentation and Robotics Seminar, Mechanical Engineering Department, Massachusetts Institute of Technology, Cambridge, MA, USA, November 16, 2006

at GRASP Lab Seminar, University of Pennsylvania, Philadelphia, PA, USA, November 10, 2006

at R:SS Socially Assistive Robotics Workshop, Robotics: Science and Systems, Philadelphia, PA, USA, August 19, 2006

“Learning the Foundations for Humanoid Autonomy”

at Machine Vision Colloquium, Massachusetts Institute of Technology, Cambridge, MA, USA, February 13, 2006

“Learning the Foundations for Humanoid Autonomy”

at National Academies of Engineering Fifth Japan-America Frontiers of Engineering Symposium, San Jose, CA, USA, November 3, 2005

“Robot Learning from Demonstration through the Capture and Analysis of Human Motion”

at MOVI Research Group, INRIA Rhone-Alpes, Grenoble, France, April 12, 2006

at iRobot Corporation, Burlington, MA, USA, November 21, 2005

at Computer Science Colloquium, University of Massachusetts Lowell, Lowell, MA, USA, October 18, 2005

at Computer Science and Engineering Colloquium, University of Washington in St. Louis, St. Louis, MO, USA, October 7, 2005

at Robotics Group, University of Massachusetts Amherst, Amherst, MA, USA, September 30, 2005

“Embodying Human Motion”

at MOVI Research Group, INRIA Rhone-Alpes, Grenoble, France, June 15, 2005

“Modular Predictors for Robot Control and Activity Classification”

at Neurobotics Meeting, Lucca, Italy, October 11, 2004

“Chalk Talk: Natural Motion Capture and Behavior Extraction”

at Computer Science Department, Brown University, Providence, RI, March 1, 2004

“Multidimensional Scaling Approaches to Analyzing and Capturing of Human Motion”

at Computer Science Colloquium, Harvey Mudd College, Claremont, CA, February 24, 2004

at Electrical Engineering and Computer Science Department, Oregon State University, Corvallis, OR, February 9, 2004

at Electrical Engineering and Computer Science Department, Vanderbilt University, Nashville, TN, February 2, 2004

at Computer Science Department, University of Nevada-Reno, November 14, 2003

at Computer Science Department, Brown University, Providence, RI, November 12, 2003

at Computer Vision Group, California Institute of Technology, Pasadena, CA, October 28, 2003

“Deriving Vocabularies of Motion for Autonomous Humanoid Agents from Natural Human Performance”

at Electrical Engineering and Computer Science Department, Vanderbilt University, Nashville, TN, May 1, 2003

“Deriving Behavior Vocabularies (for Humanoid Control and Imitation) from Human Motion Capture”

at Artificial Intelligence Group Seminar, University of California at San Diego, La Jolla, CA, December 2, 2002

at Mathematics and Computer Science Department, Alma College, Alma, MI, October 14, 2002

at Pattern Recognition and Image Processing Seminar, Michigan State University, Lansing, MI, October 11, 2002

at Computer Science Colloquium, Harvey Mudd College, Claremont, CA, September 19, 2002

“Humanoid Control and Activity Modeling Projects at the USC Robotics Research Lab”

at the Thirteenth Annual Government Technology Conference, Austin, TX, February 15, 2002

“Primitives-Based Control and Learning by Imitation”

at Computer Vision Group, California Institute of Technology, Pasadena, CA, January 26, 2001

“Primitives-based Imitation: The Model, Implementation, and Automated Derivation”

Imitation and Learning Seminar, University of Southern California, Los Angeles, CA, October 30, 2000

“Imitation Using Primitives”

Mobile Robotic Competition and Exhibition Workshop at the Seventeenth National Conference on Artificial Intelligence (AAAI 2000), Austin, TX, August 3, 2000

Research Grants and Contracts

Current Grants

- 2010 Army SBIR Award A10A-030-0110 “LIBERATION: Leader Informed Beacon Estimation for ReAl-Time, Intelligent, Onboard Navigation”, PI: D. Kortenkamp, co-PI: O. Jenkins , total \$100K, Sep. 2010 - Mar. 2011
- 2009 Alfred P. Sloan Research Fellowship, PI: O. Jenkins, total \$50K, Apr. 2009 - Apr. 2012
- NSF CAREER Award IIS-0844486, “CAREER: Robot Learning from Multi-valued Demonstration”, PI: O. Jenkins, total \$558K, Jun. 2009 - Jul. 2014
- 2008 AFOSR YIP Award, “Cover-To: Coordinating Robotic Networks through Belief Propagation”, PI: O. Jenkins, total \$300K, Jan. 2009 - Jan. 2012
- ONR PECASE Award N000140810910 “Tracking Human Movement using Simulated Physics and Neurobiomechanics with Probabilistic Inference”, PI: O.C. Jenkins, total \$1,008K, Jun. 2008 - Sep. 2013

Completed Grants

- 2008 ONR SBIR Phase II Award “Natural Human-Robot Interaction”, PI: C.V. Jones, co-PI: O.C. Jenkins, total \$750K, Oct. 2008 - Oct. 2010
- DARPA SBIR Phase II Award “Tactical Teams II: Cooperative Robot/Human Teams for Tactical Maneuvers”, PI: C.V. Jones, co-PI: O.C. Jenkins, total \$750K, Oct. 2008 - Oct. 2010
- 2007 NSF Award CNS-0742156 “Collaborative Research: BPC-A: ARTSI: Advancing Robotics Technology for Societal Impact”, PI: O. Jenkins, total \$90K, Sep. 2007 - Nov. 2010.
- ONR Award N000140710141 “Learning Predictive Motion Vocabularies for Kinematic Tracking and Activity Recognition”, PI: O.C. Jenkins, total \$380K, Mar. 2007 - Mar. 2010
- ONR SBIR Award “Natural Human-Robot Interaction”, PI: C.V. Jones, co-PI: O.C. Jenkins, total \$100K, Mar. 2007 - Sep. 2007
- Brown Salomon Award “RobAuCon: Autonomous Control for Robots from Demonstration”, PIs: O. Jenkins and M. Sellmann, total \$30K, Jan 2006 - Jun 2007.
- DARPA SBIR Award “Tactical Teams: Cooperative Robot/Human Teams for Tactical Maneuvers”, PI: C.V. Jones, co-PI: O.C. Jenkins, total \$100K, Dec. 2006 - May 2007
- 2006 ONR DURIP Award “Neural interfaces to enhance human motor performance: Instrumentation for modeling dexterous manipulation”, PI: M.J. Black, co-PIs: O.C. Jenkins and J.P. Donoghue, total \$315K, Apr. 2006 - Mar. 2008
- 2005 NSF Award IIS-0534858 “Statistical Models of the Primate Neocortex: Implementation and Application”, PI: T. Dean, co-PIs: O. Jenkins and M. Black, total \$480K, Nov. 2005 - Nov. 2008.
- 2004 INRIA “Associate Team Grant: Video and Mesh Processing for 3D Cinematography”, PI: R. Ronfard, co-PIs: O. Jenkins, E. Boyer, R. Horaud, G. Taubin, \$20K, started Jan. 2005.

Consulting

2007 DARPA Computer Science Futures Study Panel, Jan 2007 - Dec 2007.

Professional Service

University/Departmental Service

2010- Chair, Brown University CS Public Relations Committee
2009-10 Member, Brown University CS Facilities Committee
2009-10 Chair/Member, Brown University CS Graduate Examination Committee
2007-8 Member, Brown University CS Graduate Admissions Committee
2006-8 Member, Brown University Faculty Executive Committee
2005-7 Member, Brown University CS Graphics Candidate Search Committee
2005-7 Member, Brown University CS Curriculum Committee
2004-6 Mentor, Brown University ALANA (African, Latino, Asian, and Native American) Mentoring Program
2004-5,7-8 Member, Brown University CS Doctoral Admissions Committee
2002-2003 Organizer, USC Computer Science Research Social Event Series
2002 Session Moderator, 5th Annual University of Southern California Graduate and Professional Student Senate Interdisciplinary Conference, April 12th, 2002.
1998-2002 Vice President for Finance/Communications Chair, USC Computer Science Graduate Organization,
1998-1999 USC Integrated Media Systems Center Student Council, Graduate Representative
1994-1996 Alma College ACM Chapter, President/Vice President

Professional Service

Journal Editing

Associate Editor, International Journal of Social Robotics
Guest Editor, Special Issue on “Robot Learning in Practice”, IEEE Robotics and Automation Magazine
Editorial Board Member, The Knowledge Engineering Review

Organizing Committees

HRI 2012 Program Chair, Human-Robot Interaction Conference
IROS 2011 Editor, IEEE Intelligent Robots and Systems Conference
AAAI-10 PGAI Program Co-Chair, AAAI 2010 Track on Physically Grounded Artificial Intelligence
IJCAI 2009 Lead-Chair, IJCAI 2009 Robotics Exhibition and Challenges
AAAI Symposia Co-Chair, AAAI Symposia Series

Robot Learning	Member, Steering Committee, IEEE Robotics and Automation Society Technical Committee on Robot Learning
AAAI 2008	Co-Chair, AAAI 2008 Mobile Robot Exhibition and Competition
ICDL 2008	Publications Chair, International Conference on Development and Learning
ICRA 2008	Principal Organizer, ICRA 2008 Workshop on Unifying Characteristics of Research in Human-Robot Interaction
AAAI 2007	Mobile Robot Workshop Chair, AAAI 2007
ICDL 2007	Special Session Organizer, International Conference on Development and Learning
Tapia 2007	Robotics Competition Co-Chair, Richard Tapia Celebration of Diversity in Computing Conference
R:SS 2006	Publicity Chair, Robotics:Science and Systems
R:SS 2005	Principal Organizer, Robotics:Science and Systems, Workshop on Modular Foundations for Control and Perception

Program Committees

IJCAI 2011	Senior Program Committee, International Joint Conference on Artificial Intelligence
HRI 2011	Human-Robot Interaction
AAMAS 2011	Senior Program Committee, Autonomous Agents and Multiagent Systems
ICRA 2011	Associate Editor, IEEE International Conference on Robotics and Automation
HRI 2010	Human-Robot Interaction
ICML 2010	International Conference on Machine Learning
RSS 2010	Robotics: Science and Systems
ICRA 2010	Associate Editor, IEEE International Conference on Robotics and Automation
ICDL 2009	International Conference on Development and Learning
IJCAI 2009	International Joint Conference on Artificial Intelligence
AAMAS 2009	Autonomous Agents and Multiagent Systems
ICAR 2009	International Conference on Advanced Robotics
HRI 2009	Human-Robot Interaction
RSS 2008	Robotics: Science and Systems
AAAI 2008	National Conference on Artificial Intelligence
AAAI 2008	National Conference on Artificial Intelligence, Physically Grounded AI Track
ICINCO 2008	International Conference on Informatics in Control, Automation, & Robotics
HRI 2008	International Conference on Human-Robot Interaction
ARM 2007	R:SS Workshop on Robot Manipulation: Sensing and Adapting to the Real World

ICDL 2007	International Conference on Development and Learning
IROS 2007	Associate Editor, IEEE Intelligent Robots and Systems
RO-MAN 2007	IEEE International Workshop on Robot and Human Interactive Communication
AAAI 2007	Conference on Artificial Intelligence
ICINCO 2007	International Conference on Informatics in Control, Automation, & Robotics
R:SS 2007	Robotics:Science and Systems
AAMAS 2007	Autonomous Agents and Multiagent Systems
IJCAI 2007	International Joint Conference on Artificial Intelligence
ICML 2006	International Conference on Machine Learning
AAAI 2006	National Conference on Artificial Intelligence
AAMAS 2006	Autonomous Agents and Multiagent Systems
ICRA 2006	IEEE International Conference on Robotics and Automation
PHI 2005	IEEE International Workshop on Modeling People and Human Interaction (PHI'05)
RO-MAN 2005	IEEE International Workshop on Robot and Human Interactive Communication
AAAI 2005	National Conference on Artificial Intelligence
ICAR 2005	International Conference on Advanced Robotics
ICRA 2005	IEEE International Conference on Robotics and Automation

Tutorials

ARTSI 2009	“Regression 101” ARTSI (Advancing Robotics Technology for Societal Impact) Faculty Summer Workshop, Atlanta, GA, USA, June, 8, 2009
PSSCR 2007	“Robot Learning” at Player Summer School on Cognitive Robotics, Technical University of Munich, Munich, Germany, August 18, 2007
MASS 2003	“Embodied Robotic Agents” at Melbourne Agent Systems School, University of Melbourne, Melbourne, Australia, July 11, 2003

Reviewing: Grants

NSF	CISE: 2005, 2008, 2009, 2010
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Reviewing: Journals

IEEE RAM	IEEE Robotics and Automation Magazine
IJRR	International Journal of Robotics Research
AURO	Autonomous Robots
IJHR	International Journal of Humanoid Robotics
IEEE T-RO	IEEE Transactions on Robotics

IEEE SMC-A	IEEE Transactions on Systems, Man, and Cybernetics (Part A)
IEEE SMC-B	IEEE Transactions on Systems, Man, and Cybernetics (Part B)
ISR	Intelligent Service Robotics
IJSR	International Journal of Social Robotics
IS	Interaction Studies
NN	Neural Networks
ACM ToG	ACM Transactions on Graphics (and SIGGRAPH 2002,2004,2005,2008,2009; SIGGRAPH Asia 2008,)
Comput Graph	Computers & Graphics
IEEE TKDE	IEEE Transactions on Knowledge and Data Engineering
CVIU	Computer Vision and Image Understanding
IEEE TVCG	IEEE Transactions on Visualization and Computer Graphics
IEEE EMBS	IEEE Transactions on Biomedical Engineering
IEEE PAMI	IEEE Transactions on Pattern Analysis and Machine Intelligence
IJCV	International Journal of Computer Vision

Reviewing: Conferences

CVPR 2011	Computer Vision and Pattern Recognition
AAAI II 2010	AAAI 2010 Track on Integrated Intelligence
CVPR 2010	Computer Vision and Pattern Recognition
IROS 2010	IEEE Intelligent Robots and Systems
RO-MAN 2009	IEEE International Workshop on Robot and Human Interactive Communication
ICRA 2009	IEEE International Conference on Robotics and Automation
ICCV 2009	International Conference on Computer Vision
CVPR 2009	Computer Vision and Pattern Recognition
Tapia 2009	Tapia Celebration of Diversity in Computing 2009
IROS 2008	IEEE Intelligent Robots and Systems
CVPR 2008	Computer Vision and Pattern Recognition
ICRA 2008	IEEE International Conference on Robotics and Automation
IROS 2007	IEEE Intelligent Robots and Systems
Sandbox 2007	ACM SIGGRAPH Sandbox Symposium on Videogames
CVPR 2007	Computer Vision and Pattern Recognition
ICRA 2007	IEEE International Conference on Robotics and Automation
HRI 2007	Human-Robot Interaction
CVPR 2006	Computer Vision and Pattern Recognition

GI 2006	Graphics Interface
Humanoids 2004	IEEE-RAS International Conference on Humanoid Robotics
AAAI 2004	National Conference on Artificial Intelligence
GI 2004	Graphics Interface
ICDL 2002	International Conference on Development and Learning
IAS-6	International Conference on Intelligent Autonomous Systems
Humanoids 2000	IEEE International Conference on Humanoid Robotics

Community Service

2006	Learning Through Interest Professional Panel, Met Center High School, Providence, RI, USA, June, 28, 2006
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Academic Honors, Fellowships, Honorary Societies

2009	Sloan Research Fellowship, Alfred P. Sloan Foundation
2009	Kavli Fellow, National Academy of Sciences
2008	Young Investigator Award, Air Force Office of Scientific Research
2007	Presidential Early Career Award for Scientists and Engineers (PECASE)
2007	Recipient, Young Investigator funding, Office of Naval Research
2005	Honorable Mention, 2004 Freescale Wireless Design Challenge
2003	Upsilon Pi Epsilon, Computer Science Honorary Society
2003	Autonomous Agents and Multi-Agent Systems Conference Travel Award
2003	University of Southern California Graduate Student Leadership Award
2002	University of Southern California Office of International Services Outstanding Leadership Award
2000	AAAI Student Exhibitor Travel Scholarship
2000	Autonomous Agents Conference Travel Award
1998-2001	Univ. of Southern California All-University Predoctoral Fellowship Recipient
1996-1997	Georgia Tech College of Computing GTE Fellowship Recipient
1996	Alma College Senior Leadership Award
1995	Omicron Delta Kappa, Academic Honorary Society
1993-1995	Alma College Dean's List

Teaching and Advising**3 courses taught at Brown University**

2004-	CS 148 (Building Intelligent Robots)
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- Fall 2004 Enrollment: 21
- Fall 2005 Enrollment: 19
- Fall 2006 Enrollment: 16
- Fall 2007 Enrollment: 17
- Spring 2009 Enrollment: 28
- Fall 2009 Enrollment: 13
- Fall 2010 Enrollment: 44

2006- CS 134 (Innovating Game Development)

- Spring 2006 Enrollment: 22
- Spring 2008 Enrollment: 20

2007 CS 296-3/295-Z (Robot Learning and Autonomy)

- Spring 2007 Enrollment: 10
- Spring 2010 Enrollment: 10

Postdoctoral supervisor to 3 researchers

2009-2011 Dr. Sarah Osentoski

2009-2011 Dr. Christopher Crick

2009-2010 Dr. Trevor Jay

Ph.D. advisor/supervision to 5 students

Graduated

2009 Daniel Grollman, dissertation: “Teaching old dogs new tricks: Incremental multimap regression for interactive robot learning from demonstration”

Current

2008- Marek Vondrak

2009- Mark Buller

2010- Brian Thomas

Sc.M. research advisor to 19 students

Graduated

2010 Barbara Korel, project “Teaching Autonomous Robotics using Player and ROS”

2009 Aysun Bascetincelik

2009 Glenn Donovan (Brown Engineering)

2008 Mark Buller

2008 Sanghoon Cha, “RCHeli: Infrastructure for PC-Controlled Micro Helicopter”

2008 Ahmad Wilson

2008 Neehar Cherabuddi

2008 Jesse Butterfield, project “Multi-robot Markov Random Fields”

- 2008 Korhan Bircan
- 2007 Jonas Schwertfeger, project: “Multi-Robot Belief Propagation for Distributed Robot Allocation”
- 2006 Brendan Dickinson, project: “Roomba Pac-Man: Teaching Autonomous Robotics through Embodied Gaming”
- 2006 Mark Moseley, project: “Technical Aspects of Roomba Pac-Man”
- 2006 Suamporn Ketpreechasawat, project: “Hierarchical Landmark Charting”
- 2006 Ethan Leland, project: “The Brown University Robocup 2006 Four-legged League Team Report”
- 2006 Pawel Wrotek, project: “Dynamo: Dynamic, Data-driven Character Control with Adjustable Balance”
- 2006 Matthew Loper
- 2006 Jason Mallios
- 2005 Salil Apte, project: “Time-Varying Azimuth Discrimination and Resynthesis: A New Method for Music Repurposing”.

Sc.B. research/thesis advisor to 11 students

Graduated

- 2007-9 Micah Lapping-Carr, honors thesis: “RGame: A Video Game for Interactive Robot Learning”
- 2007-8 Daniel Byers
- 2008 Jesse Errico
- 2006-7 Theadora Hinkle
- 2007 Stephanie Greer
- 2006 Alexander Rice
- 2006 Graham Rosser
- 2006 David Bloom, Brown UTRA Award
- 2005 Edwin Chang, honors thesis: “Sketching Articulation and Pose for Facial Meshes”.
- 2005 Gabriel Taubman, honors thesis: “MusicHand: A Handwritten Music Recognition System”.
- 2005 Daniel Hartmann

Current

- 2009- Pete White

Visiting student supervision of 2 students

- 2006-7 Marek Vondrak
- 2005-6 Germán González (KTH), Masters thesis: “Kinematic Tracking and Activity Recognition Using Motion Primitives”
 - Best AI Masters Thesis of 2005, Swedish Artificial Intelligence Society

Ph.D. Dissertation Committee Member to 5 students

2/2011	Jan Bandouch (TU-Munich)
3/2010	Jon Cohen
4/2008	Casey Marks
12/2007	Lijuan Cai
4/2006	Christina N. de Juan (Vanderbilt)

Ph.D. Thesis Proposal Committee Member to 7 students

4/2010	Yuri Malitsky
12/2008	Nik Melchior (Carnegie Mellon)
10/2007	Casey Marks
6/2007	John Raiti (Brown Engineering)
8/2007	Christina Campbell (Vanderbilt)
4/2007	Lijuan Cai
5/2005	Christina N. de Juan (Vanderbilt)

Additional Information**Selected Media Coverage**

2009	Robots Get Their Own Operating System, in <i>New Scientist</i> , Aug 10, 2009 Wag the Robot: Robot Responds To Human Gestures, in <i>ScienceDaily</i> , March 12, 2009.
2006	“Let’s Make a Game”, by Lawrence Goodman, in <i>Brown Alumni Magazine</i> , July/August 2006. “Science as a sport”, by Bryan Rourke, in <i>The Providence Journal</i> , June 8, 2006. “Robopups do not lie down”, by Maggie O’Brien, NBC Evening News (Providence Channel 10), aired May 9, 2006.
2003	“The Many Faces of Behavior”, by Torbjorn Dahl, in <i>European Research Consortium for Informatics and Mathematics News</i> , Number 53, April 2003.
2001	ABC Evening News (Los Angeles Channel 7), by Miriam Hernandez, featured videos of humanoid robot imitating human motion, aired June 27, 2001.

Production Credits

1998	Animator/Modeler, <i>An Alien Occurrence</i> , produced by the Georgia Tech Animation Lab.
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Personal

Citizenship	United States of America
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Gender Male
Ethnicity Black/African-American
Family Married, 3 children

Providence, RI, USA