

## Shaundra Bryant Daily

MIT Media Laboratory

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### RESEARCH INTERESTS

Computational tools for creative and reflective learning, Engineering Education, Learning Sciences and Technology, Affective Computing

### EDUCATION

Massachusetts Institute of Technology, Media Laboratory

Candidate for Doctoral Degree, Expected 2009

Cumulative GPA: 5.0

Massachusetts Institute of Technology, Media Laboratory

S.M. in Media Arts & Science, 2005

Thesis: Digital Story Explication as it Relates to Emotional Needs and Learning

Florida Agricultural & Mechanical University

M.S. in Electrical Engineering, 2003

Thesis: Data Mining Principles with Applications in Prediction

Florida State University

B.S. in Electrical Engineering, 2001

### PUBLICATIONS

Daily, S. B., Eugene, W., & Prewitt, A. (to appear). *The Development of Social Capital in Engineering Education to Improve Student Retention*. Proceedings 2007 ASEE Southeastern Section Annual Conference, Louisville, KY, April 1-3, 2007.

Millner, A., & Daily, S. B. (to appear). *Creating an Educational Ecosystem for Design, Fabrication, and Invention*. In P. Hildreth & C. Kimble (Eds.), *Communities of Practice: Creating Learning Environments for Educators* (Vol. 1). Charlotte, NC: Information Age Publishing Inc.

Prewitt, A., Daily, S.B., and Eugene, W. (to appear) *Minority Retention and Success in Engineering: Diversifying the Pipeline through the Development of Social Capital* Proceedings. in 2007 ASEE Annual Conference, Honolulu, HI, June 24-28, 2007.

Mills-Henry, I., Chapman, R., Brittain, E.B., Hampton, M., Daily, S.B., Walcott, A., Bryant, R. (to appear) *The Academy of Courageous Minority Engineers: A Model For Supporting Minority Graduate Students in the Completion of Science and Engineering Degrees*. Proceedings. 2007 ASEE Annual Conference, Honolulu, HI, June 24-28, 2007.

Daily, S. B., & Picard, R. W. (2006). *G.I.R.L.S. Talk, A Proactive Emotional Health Technology*. Presented at the American Educational Research Association, New Members Poster Session,

San Francisco, CA, April 7-11, 2006.

Picard, R. W., & Daily, S. B. (2005). *Evaluating affective interactions: Alternatives to asking what users feel*. Paper presented at the Conference on Human Factors in Computing Systems Workshop on Innovative Approaches to Evaluating Affective Interfaces, Portland, OR, April 2-7, 2005.

Daily, S. B., & Picard, R. W. (2004). *INNER-active Journal*. Paper presented at the 1st ACM Workshop on Story Representation, Mechanism And Context in conjunction with the 12th ACM International Conference on Multimedia, New York, NY, October 15, 2004.

Cavallo, D., Sipitakiat, A., Basu, A., Bryant, S., Welte-Santos, L., Maloney, J., et al. (2004). *Roballet: Exploring Learning Through Expression in the Arts through constructing in a Technologically Immersive Environment*. Proceedings International Conference on Learning Sciences, Santa Monica, CA, June 22-26, 2004.

Cavallo, D., Basu, A., Bryant, S., & Sipitakiat, A. (2004). *Opening Pathways to Higher Education Through Engineering Projects*. Proceedings American Society for Engineering Education Annual Conference 2004, Salt Lake City, Utah, June 20-23, 2004.

## **RESEARCH EXPERIENCE**

Aug. 2005- Present      **Research Assistant, MIT Media Laboratory, Cambridge, MA**  
Research Advisor: Rosalind Picard, Affective Computing

Researching computational tools that allow people to reflect on and change their beliefs, values, and attitudes.

June 2003- Aug. 2005      **Research Assistant, MIT Media Laboratory, Cambridge, MA**  
Research Advisors: Rosalind Picard, Affective Computing  
David Cavallo, Future of Learning

Designed, constructed, and evaluated systems utilizing affective sensing as well as commonsense reasoning to foster the emotional growth of individuals.

Jan. 2002 – June 2003      **Research Assistant, Florida Agricultural & Mechanical University, Tallahassee, FL**  
Research Advisor: Frank B. Gross

Developed algorithms for predicting the possibility of student success in entry-level electrical engineering courses that were used to determine student eligibility for peer-assisted learning courses.

May 2001- Aug. 2001      **Research Assistant, Florida State University, Tallahassee, FL**  
Research Advisor: Frank B. Gross, Sensor Systems Research Laboratory

Researched and developed computational models of triboelectric charging for use in NASA Mars exploration.

Jan. 1999- **Research Assistant, Florida State University, Tallahassee, FL**  
May 1999 Research Advisor: Yaw Owusu, Center of Excellence for Design and Manufacture  
of Renewable Energy Products

Researched the design, manufacturing, and implementation of products and systems which use solar energy as a main source of power for use in developing countries.

### **TEACHING & MENTORSHIP ACTIVITIES**

Jan 2006- **Teaching Assistant, Massachusetts Institute of Technology**  
May 2006 **MAS 714, Creative Learning Technologies**

Course Description: This course is designed to allow students to analyze principles and strategies underlying the design of innovative educational technologies and creative learning environments. Students learn through a combination of lectures, class discussions, and written assignments that lead up to the development of their own learning technologies tools at the end of the semester.

July 2004- **Graduate Resident Tutor, Massachusetts Institute of Technology**  
Present

Encouraged personal growth, provided outlets for managing stress, and facilitated positive interpersonal relationships for students while living in their undergraduate dormitory.

Jan. 2000- **Peer Tutor, Florida State University**  
May 2001 **EGN 3613, Engineering Economy**

Course Description: This course serves as an introduction to the study of engineering management functions, processes, principles, and practices. Students learn through a combination of lectures and problem sets.

Jan. 2003- **Student Director, FAMU-Undergraduate Program Peer Assisted Learning**  
May 2003 **Lab, Tallahassee, FL**

Coordinated peer-assisted learning activities for students an entry-level Introductory Circuits (EEL.1000) and Electronics (EEL.3001) and assisted with instruction.

### **INVITED TALKS**

Northeast Sustainable Energy Association Building Energy 2006. Invited Talk and Panel Discussion on "*Socio-Economic & Cultural Sustainability in Communities of Color: Creating Inclusion*" Boston, MA. March 2006.

Robert Woods Johnson Foundation. Invited Talk on "Digital Story Explication as it Relates to Emotional Needs and Learning" Princeton, NJ. June 2005.

International Conference of the Learning Sciences. Invited Talk on "Roballet: Creative, Hard Fun". Santa Monica, CA. June 2004.

## **INTERESTS & ACTIVITIES**

- National Society of Black Engineers – National Achiever’s Plus Chair (2005-2006)
- Academy of Courageous Minority Engineers (2005-Present)
- Planning Committee, MIT CONVERGE Diversity Conference (2004-Present)
- MIT Dance Troupe (2003- Present)
- Essence Dance Theatre – Company member (2001-2003)
- National Society of Black Engineers Technical OutReach Community Help Center – Chair (2001-2003)
- Tallahassee Thunder Cheerleading Squad (2000)
- 3-on-3 Charity Basketball Tournament Chair (1999)
- Florida State University Golden Girls Dance Squad (1997-1999)

## **AWARDS**

- Learning in Formal and Informal Environments (LIFE) Center Fellow
- Sean A. Pittman Award for Outstanding Service to the African American Community
- Who’s Who in American Universities and Colleges
- Delta Airlines Fellowship
- Georgia Tech FOCUS Fellow
- NSBE Torchbearer
- Florida State University Seminole Torchbearer
- National Society of Black Engineers Chapter Member of the Year
- Florida- Georgia Louis Stokes Alliance for Minority Participation Scholarship Recipient
- National Achievement Scholar

## **AFFILIATIONS**

- Omicron Delta Kappa Leadership Honorary
- Tau Beta Pi Engineering Honor Society
- Golden Key National Honor Society
- Mortar Board Honor Society
- W.E.B. Dubois Honor Society