

CURRICULUM VITAE

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<b>EDUCATION</b>	<b>MASSACHUSETTS INSTITUTE OF TECHNOLOGY</b> Ph.D. in Media Arts & Sciences, February 2003	<b>Cambridge, MA</b>
	<b>ARIZONA STATE UNIVERSITY</b> Master of Science in Computer Science, June 1986 Bachelor of Science and Engineering in Computer Systems Engineering, June 1985 <i>Summa Cum Laude</i>	<b>Tempe, AZ</b>
<b>EMPLOYMENT HISTORY</b>	<b>NORTHEASTERN UNIVERSITY (2005-Present)</b> Assistant Professor, College of Computer and Information Science	<b>Boston, MA</b>
	<b>BOSTON UNIVERSITY SCHOOL OF MEDICINE (2003-2005)</b> Assistant Professor of Medicine, General Internal Medicine	<b>Boston, MA</b>
	<b>MIT MEDIA LABORATORY (1998-2003)</b> Postdoctoral Research Assistant, <b>Affective Computing Group</b> (Rosalind Picard) Research Assistant, <b>Affective Computing Group</b> (Advisor: Rosalind Picard) Research Assistant, <b>Gesture &amp; Narrative Language Group</b> (Advisor: Justine Cassell)	<b>Cambridge, MA</b>
	<b>FUJI-XEROX PALO ALTO RESEARCH LAB (1995-1998)</b> Consulting Scientist	<b>Palo Alto, CA</b>
	<b>INTELLIGENT SOFTWARE ASSOCIATES (1994-1998)</b> Principal	<b>Sacramento, CA</b>
	<b>AEROJET PROPULSION SYSTEMS (1990-1994)</b> Project Engineer	<b>Sacramento, CA</b>
	<b>LOCKHEED ARTIFICIAL INTELLIGENCE CENTER (1986-1990)</b> Research Scientist	<b>Menlo Park, CA</b>

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**SCHOLARSHIP / RESEARCH**
**PUBLICATIONS****A. Refereed  
Articles**

1. Bickmore, T, Schulman, D, Sidner, C (2011), "A Reusable Framework for Health Counseling Dialogue Systems based on a Behavioral Medicine Ontology", *Journal of Biomedical Informatics*, **44**, 183-197.
2. Watson, A, Bickmore, T, Cange, A, Kulshreshtha, A, Kvedar, J (to appear) "A Randomized Trial to Evaluate the Efficacy of a Virtual Coach on Adherence to an Activity Regime", *Journal of Medical Internet Research*.
3. Vinson, C, Bickmore, T, Farrell, D, Campbell, M, Saunders, E, Nowak, M, Fowler, B Shaikh, A (2011) "Adapting Research Tested Computerized Tailored Interventions for Implementation in Practice", *Translational Behavioral Medicine: Practice, Policy, Research*, **1(1)**, 93-102.
4. Bickmore, T, Pfeifer, L, Byron, D, Forsythe, S, Henault, L, Jack, B, Silliman, R, Paasche-Orlow, M (2010) "A Health Information User Interface for Patients Irrespective of Health Literacy: Evidence of Usability from Two Clinical Trials Using Embodied Conversational Agents", *Journal of Health Communication*, **15**, 197-210.
5. Bickmore, T, Fernando, R, Ring, L, Schulman, D (2010) "Empathic Touch by Relational Agents", *IEEE Transactions on Affective Computing*, **1(1)**, 60-71.
6. Yin, L, Bickmore, T, Cortes, D (2010) "The Impact of Linguistic and Cultural Congruity on Persuasion by Conversational Agents", *Intelligent Virtual Agents* conference.
7. Schulman, D, Bickmore, T (2010) "Modeling Behavioral Manifestations of Coordination and Rapport over Multiple Conversations: Speaking Rate as a Relational Indicator for a Virtual Agent", *Intelligent Virtual Agents* conference.
8. Bickmore, T, Ring, L (2010) "Making It Personal: End-User Authoring of Health Narratives Delivered by Virtual Agents", *Intelligent Virtual Agents* conference.
9. Bickmore, T, Schulman, D, Yin, L (2010) "Maintaining Engagement in Long-term Interventions with Relational Agents", *International Journal of Applied Artificial Intelligence* special issue on Intelligent Virtual Agents, 24(6): 648-666.
10. Bickmore, T, Gruber, A (2010). "Relational Agents in Clinical Psychiatry", *Harvard Review of Psychiatry*, special issue on Psychiatry and Cyberspace, 18(2): 119-130.
11. Bickmore, T, Mitchell, S, Jack, B, Paasche-Orlow, M, Pfeifer, L, O'Donnell, J (2010) "Response to a Relational Agent by Hospital Patients with Depressive Symptoms", *Interacting with Computers* special issue on Supportive Interaction: Computer Interventions for Mental Health, 22(4), 289-298.
12. Bickmore, T, Puskar, K, Schlenk, E, Pfeifer, L, Sereika, S (2010) "Maintaining Reality: Relational Agents for Antipsychotic Medication Adherence", *Interacting with Computers* special issue on Supportive Interaction: Computer Interventions for Mental Health, 22(4) 276-288.
13. Mitchell, S, Bickmore, T, Paasche-Orlow, M, Williams, C, Forsythe, S, Atrash, H, Johnson, K, Jack, B (2010) "Increasing Access to Preconception Care Using Health Information Technology", *Sociedad Iberoamericana de Informacion Cientifica (SIIC)* - IXOS CDC.

## PUBLICATIONS

A. Refereed  
Articles

Continued

14. Yin, L., Bickmore, T., Byron, D., and Cortes, D. (2010) "Cultural and Linguistic Adaptation of Relational Agents for Health Counseling", *Workshop on Interactive Systems in Healthcare (WISH)*, Atlanta, GA.
15. Bickmore, T., Schulman, D. and Shaw, G. (2009) "DTask & LiteBody: Open Source, Standards-based Tools for Building Web-deployed Embodied Conversational Agents", Proceedings of *Intelligent Virtual Agents*, Amsterdam.
16. Pfeifer, L. and Bickmore, T. (2009) "Should Agents Speak Like, um, Humans? The Use of Conversational Fillers by Virtual Agents", Proceedings of *Intelligent Virtual Agents* conference, Amsterdam.
17. Bickmore, T., Fernando, R., (2009) "Towards Empathic Touch by Relational Agents", *AAMAS Workshop on Empathic Agents*, Budapest.
18. Bickmore, T, Schulman, D, Yin, L (2009) "Engagement vs. Deceit: Virtual Humans with Human Autobiographies", Proceedings of *Intelligent Virtual Agents* conference, Amsterdam, **Best Paper Award**.
19. Bickmore, T. and Schulman, D. (2009) "A Virtual Laboratory for Studying Long-term Relationships between Humans and Virtual Agents", Proceedings of *Autonomous Agents and Multi-Agent Systems (AAMAS)* conference, Budapest, Hungary.
20. Schulman, D. and Bickmore, T. (2009) "Persuading Users through Counseling Dialogue with a Conversational Agent", *Persuasive Technology* conference, Claremont, CA.
21. Bickmore, T, Pfeifer, L, Jack, B, (2009) "Taking the Time to Care: Empowering Low Health Literacy Hospital Patients with Virtual Nurse Agents", Proceedings of the *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Boston.
22. Bickmore, T., Pfeifer, L., and Paasche-Orlow, M. (2009) "Using Computer Agents to Explain Medical Documents to Patients with Low Health Literacy", *Patient Education and Counseling*, 75(3): 315-320.
23. Bickmore, T, Mauer, D, and Brown, T (2009) "Context Awareness in a Handheld Exercise Agent", *Pervasive and Mobile Computing*, 5, 226-235.
24. Bickmore, T., L. Pfeifer, and L. Yin, (2008) "The Role of Gesture in Document Explanation by Embodied Conversational Agents" *International Journal of Semantic Computing*, 2(1) 47-70.
25. T. Bickmore, L Pfeifer, D Schulman, S Perera, C Senanayake, and I Nazmi (2008) "Public Displays of Affect: Deploying Relational Agents in Public Spaces" *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) Extended Abstracts*, Florence, Italy .
26. Jack, B, Atrash, H, Bickmore, T, Johnson, K (2008) "The Future of Preconception Care: A Clinical Perspective", *Women's Health Issues*. 18S, S19-S25
27. Bickmore, T, Pfeifer, L (2008) "Relational Agents for Antipsychotic Medication Adherence" *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) workshop on "Technology for Mental Health"*, Florence, Italy .

## PUBLICATIONS

A. Refereed  
Articles*Continued*

28. Bickmore, T, Mauer, D, Crespo, F and Brown, T (2008) "Negotiating Task Interruptions with Relational Agents for Health Behavior Change", *Autonomous Agents and Multi-Agent Systems (AAMAS)*, Estoril, Portugal .
29. Schulman, D, Sharma, M and Bickmore, T (2008) "The Identification of Users by Relational Agents", *Autonomous Agents and Multi-Agent Systems (AAMAS)*, Estoril, Portugal .
30. Bickmore, T (2008) "Framing and Interpersonal Stance in Relational Agents", *Autonomous Agents and Multi-Agent Systems (AAMAS) workshop on "Why Conversational Agents do what they do: Functional Representations for Generating Conversational Agent Behavior"*, Estoril, Portugal .
31. Schulman, D and Bickmore, T (2007) "Comforting Agents", *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) workshop on "Supple Interfaces"*, San Jose, CA
32. Bickmore, T (2007) "What Would Jiminy Cricket do? Lessons from the First Social Wearable", *HCI International*, Beijing, China .
33. Bickmore, T, Mauer, D and Brown, T (2007) "Persuasion, Task Interruption, and Health Regimen Adherence", *Persuasive Technology*, Stanford, CA .
34. Bickmore, T and Schulman, D (2007) "Practical Approaches to Comforting Users with Relational Agents" *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI) Extended Abstracts* (Work In Progress), San Jose, CA .
35. Bickmore, T, Mauer, D and Brown, T (2007) "Context Awareness in Mobile Relational Agents", *Intelligent Virtual Agents*, Paris, France .
36. Bickmore, T, Pfeifer, L and Paasche-Orlow, M (2007) "Health Document Explanation by Virtual Agents", *Intelligent Virtual Agents*, Paris, France .
37. Bickmore, T (2007) "Long-Term Interactions with Pedagogical Agents" *Educational Technology*, 47, 1, 47-50.
38. Bickmore T, Giorgino T, Green N, Picard R (2006) "Guest Editorial: Special Issue on Dialog Systems for Health Communication" *J Biomedical Informatics* 39(5):465-467.
39. Bickmore T, Giorgino T (2006) "Methodological Review: Health Dialog Systems for Patients and Consumers" *J Biomedical Informatics* 39(5): 556-571.
40. Bickmore, T. and Sidner, C. L. (2006) "Towards Plan-based Health Behavior Change Counseling Systems" *AAAI Spring Symposium on Argumentation for Consumers of Healthcare*, Stanford, CA .
41. Bickmore T, Mauer D. (2006) "Modalities for Building Relationships with Handheld Computer Agents" *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Montreal .
42. Bickmore T, Schulman D. (2006) "The Comforting Presence of Relational Agents" *ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Montreal .
43. Bickmore T, Sidner CL. (2006) "Towards Plan-based Health Behavior Change Counseling Systems" *AAAI Spring Symposium on Argumentation for Consumers of Healthcare*, Stanford, CA .

## PUBLICATIONS

A. Refereed  
Articles

Continued

44. Schlenk E, Puskar K, Sereika S, Bickmore, T (2006) "Forging partnerships to develop and test relational agent technology to improve medication adherence in schizophrenia" *Eastern Nursing Research Society Annual Scientific Sessions*, Cherry Hill, NJ .
45. Bickmore, T., Caruso, L., Clough-Gorr, K., and Heeren, T. (2005) "It's just like you talk to a friend' – Relational Agents for Older Adults" *Interacting with Computers* 17(6): 711-735.
46. Bickmore, T., Gruber, A., and Picard R. (2005) "Establishing the Computer-Patient Working Alliance in Automated Health Behavior Change Interventions" *Patient Education and Counseling* 59(1): 21-30.
47. Bickmore, T. and Picard, R. (2005) "Establishing and Maintaining Long-Term Human-Computer Relationships" *ACM Transactions on Computer Human Interaction (ToCHI)* 12(2): 293 – 327.
48. Bickmore, T., Caruso, L., and Clough-Gorr, K. (2005) "Acceptance and Usability of a Relational Agent Interface by Urban Older Adults" *Proceedings of of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Portland, OR .
49. Bickmore, T. (2005) "Ethical Issues in Using Relational Agents for Older Adults" *AAAI Fall Symposium on Caring Machines: AI in Eldercare* Washington, DC .
50. Bickmore, T. (2004) "Unspoken Rules of Spoken Interaction" *Communications of the ACM* 47(4): 38-44.
51. Bickmore, T. and Picard, R. (2004) "Towards Caring Machines" *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, Vienna, Austria .
52. Bickmore, T. (2004) "What do you Expect? Towards a Model of Human-Computer Relationships," *Vienna Workshop on Dimensions of Sociality: Shaping Relationships with Machines*, November 19-20, Vienna, Austria .
53. Bickmore T. and Giorgino, T. (2004) "Some Novel Aspects of Health Communication from a Dialogue Systems Perspective," *Proceedings of the AAAI Fall Symposium on Dialogue Systems for Health Communication*, October, 2004, Washington, DC .
54. Bickmore, T. and Picard, R. (2003). "Subtle Expressivity by Relational Agents." *Proceedings of the CHI 2003 Workshop on Subtle Expressivity for Characters and Robots*. April 7<sup>th</sup>, Fort Lauderdale, FL .
55. Cassell, J., Bickmore, T. (2003) "Negotiated Collusion: Modeling Social Language and its Relationship Effects in Intelligent Agents" *User Modeling and User Adaptive Interaction* 13(1): 89-132.
56. Bickmore, T. and Cassell, J. (2002) "Phone vs. Face-to-Face with Virtual Persons." *Proceedings of the International CLASS Workshop on Natural, Intelligent and Effective Interaction in Multimodal Dialogue Systems*. June 28-29, Copenhagen, Denmark .
57. Bickmore, T. (2002) "Social Dialogue is Serious Business." *Proceedings of the CHI 2002 Workshop on Socially Adept Technologies*, April 21, Minneapolis, MN .
58. Bickmore, T. (2002). "Towards the Design of Multimodal Interfaces for Handheld Conversational Characters." *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, pp. 788-789. April 20-25, Minneapolis, MN .

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A. Refereed  
Articles*Continued*

59. Cassell, J., Stocky, T., Bickmore, T., Gao, Y., Nakano, Y., Ryokai, K., Tversky, D., Vaucelle, C., Vilhjálmsón, H. (2002). "MACK: Media lab Autonomous Conversational Kiosk." *Proceedings of Imagina02*. February 12-15, Monte Carlo .
60. Cassell, J. and Bickmore, T. (2001) "External Manifestations of Trustworthiness in the Interface", *Communications of the ACM* 43(12): 50-56.
61. Cassell, J., Bickmore, T., Vilhjálmsón, H., Yan, H. (2001) "More Than Just a Pretty Face: Conversational Protocols and the Affordances of Embodiment." *Knowledge-Based Systems* 14: 55-64.
62. Cassell, J., Nakano, Y., Bickmore, T., Sidner, C., Rich, C. (2001). "Non-Verbal Cues for Discourse Structure." *Proceedings of the 41st Annual Meeting of the Association for Computational Linguistics*, pp. 106-115. July 17-19, Toulouse, France .
63. Cassell, J., Vilhjálmsón, H., Bickmore, T. (2001) "BEAT: the Behavior Expression Animation Toolkit." *Proceedings of SIGGRAPH '01*, pp. 477-486. August 12-17, Los Angeles, CA .
64. Bickmore, T. and Cassell, J. (2001) "Relational Agents: A Model and Implementation of Building User Trust". *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, pp. 396-403. March 31-April 5, Seattle, Washington .
65. Cassell, J., Bickmore, T., Vilhjálmsón, H., and Yan, H. (2000) "More Than Just a Pretty Face: Affordances of Embodiment" in *Proceedings of the Conference on Intelligent User Interfaces*, pp. 52-59. January 4-9, New Orleans, LA .
66. Bickmore, T. and Cassell, J. (2000) "How about this weather? Social Dialogue with Embodied Conversational Agents." in *Proceedings of the AAAI Fall Symposium on Socially Intelligent Agents*. pp. 4-8. November 3-5, Cape Cod, MA .
67. Cassell, J., Ananny, M., Basu, A., Bickmore, T., Chong, P., Mellis, D., Ryokai, K., Smith, J., Vilhjálmsón, H., Yan, H. (2000) "Shared Reality: Physical Collaboration with a Virtual Peer." *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, pp. 259-260. April 4-9, Amsterdam, Netherlands .
68. Bickmore, T. and Girgensohn, A. (1999) "Web Page Filtering and Re-Authoring for Mobile Users", *Computer Journal special issue on Mobile Computing* 42(6): 534-546.
69. Cassell, J., Bickmore, T., Billinghurst, M., Campbell, L., Chang, K., Vilhjálmsón, H. and Yan, H. (1999). "Embodiment in Conversational Interfaces: Rea." *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, pp. 520-527. Pittsburgh, PA .
70. Bickmore, T. and Cassell, J. (1999) "Small Talk and Conversational Storytelling In Embodied Interface Agents," *AAAI Fall Symposium on Narrative Intelligence* .
71. Bickmore, T., Cook, L., Churchill, E., and Sullivan, J. (1998) "Animated Autonomous Personal Representatives." *Second International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)* .
72. Cassell, J., Bickmore, T., Billinghurst, M., Campbell, L., Chang, K., Vilhjálmsón, H., Yan, H. (1998) "An Architecture for Embodied Conversational Characters." *Proceedings of the First Workshop on Embodied Conversational Characters*, pp. 21-30, Tahoe City, CA .

**PUBLICATIONS**  
**A. Refereed**  
**Articles**  
*Continued*

73. Churchill, E., Prevost, S., Bickmore, T., Hodgson, P. and Cook, L. (1998) "Design Issues for Embodied Conversational Characters", *Proceedings of the First Workshop on Embodied Conversational Characters*, pp. 149-158, Tahoe City, CA .
74. Prevost, S., Bickmore, T. and Cassell, J. (1998) "Interactional Competency for Conversational Characters." *Proceedings of the AAAI Workshop on Representations for Multi-Modal Human-Computer Interaction* .
75. Bly, S., Cook, L., Bickmore, T., Churchill, E. and Sullivan, J. (1998) "The Rise of Personal Web Pages at Work." *Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)*, ACM Press, pp. 313-314 .
76. Bickmore, T. and Schilit, B. (1997) "Digester: Device-Independent Access to the World Wide Web", *Sixth International World Wide Web Conference*, Santa Clara, California, April (also published as *Computer Networks And ISDN Systems*, 29(8-13): 1075-1082, September).
77. Bickmore, T. and Filman, R. (1997) "MultiLex, A Pipelined Lexical Analyzer." *Software Practice and Experience* 27(1): 25-32.
78. Findler, N. and Bickmore, T. (1996) "On the concept of causality and a causal modeling system for scientific and engineering domains, CAMUS." *Applied Artificial Intelligence*, vol. 10, no. 5, pp. 455-487.
79. Bickford, R., Bickmore, T., Meyer, C. and Zakrasjek, J. (1996) "Real-Time Flight Data Validation for Rocket Engines." *Proceedings 32nd Joint Conference on Propulsion*, Orlando, Florida, July, 1996.
80. Gray, R., Bickmore, T. and Williams, S. (1995) "Reengineering COBOL Systems to Ada." *Proceedings 1995 Software Technology Conference*, Salt Lake City, Utah, April, 1995 .
81. Pollack, W., Nelson, L., and Bickmore, T. (1995) "Converting Hierarchical Database Systems to Relational." *Proceedings 1995 Software Technology Conference*, Salt Lake City, Utah, April, 1995 .
82. Bickmore, T. "Sensor Validation." (1994) *Proceedings 1994 Conference on Advanced Earth-to-Orbit Propulsion Technology*, George C. Marshall Space Flight Center, Alabama .
83. Jansa, E., Bickmore, T., Makel, D., Powers, W. (1993) "Automated Hydrogen Propellant Leak Detection." *Proceedings Fifth Annual Space System Health Management Technology Conference*, Cincinnati, Ohio, April, 1993 .
84. Bickmore, T. and Maul, W. (1993) "A Qualitative Approach to Systemic Diagnosis of the SSME." *AIAA Aerospace Sciences Conference and Exhibition*, Reno, Nevada .
85. Bickmore, T. and Bickford, T. (1992) "Aerojet's Titan Health Assessment Expert System." *28th Joint Conference on Propulsion*, Nashville, Tennessee .
86. Bickmore, T. (1992) "A Probabilistic Approach to Sensor Data Validation." *28th Joint Conference on Propulsion*, Nashville, Tennessee .
87. Findler, N., Bickmore, T., Ihrig, L. and Tsang, W. (1991) "A note on the comparison of five heuristic optimization techniques of a certain class of decision trees." *Information Sciences*, vol. 53, no. 1-2, pp. 89-100.

**PUBLICATIONS****A. Refereed****Articles****Continued**

88. Vere, S. and Bickmore, T. (1990) "A Basic Agent." *Computational Intelligence* 6:41-60.
89. Cook, L., Hinkle, D., and Bickmore, T. (1990) "Planning for the manufacturing domain: long-term and reactive scheduling." *First International Conference on Expert Planning Systems*, pp. 6-10 .
90. Cook, L. and Bickmore, T. (1990) "Towards Better Expert Systems Curricula: Lessons Learned from Industry." *Proceedings of the California State University Conference on Artificial Intelligence*.
91. Cook, L. and Bickmore, T. (1989) "Instructional Strategies for Teaching Knowledge Engineering." *Heuristics*, Vol. 2, No. 3, Fall, pp. 24-28.
92. Cook, L. and Bickmore, T. (1989) "An Automatable Model of Knowledge Acquisition." *Proceedings of the Workshop on Knowledge Acquisition, International Joint Conference on Artificial Intelligence*, Detroit, Michigan .
93. Bickmore, T. (1989) "An Object-Oriented Approach to Tactical Text Generation ." *Proceedings of the SPIE Conference on Applications of Artificial Intelligence VII*, Orlando, Florida .
94. Bickmore, T. and Yoshimoto, G. (1987) "An Evidential Approach to Model-Based Satellite Diagnosis." *Proceedings of the SPIE Conference on Space Station Automation III*, Cambridge, Massachusetts .
95. Findler, N., Cromp, R. and Bickmore, T. (1985) "A General-Purpose Man-Machine Environment with Special Reference to Air Traffic Control." *International Journal of Man-Machine Studies*, 23, pp.587-603.
96. Findler, N., Bickmore, T., and Belofsky, M. (1983) "On Some Issues Concerning Optimization and Decision Trees." *Proceedings of the International Conference on Mathematical Modeling*, Zurich, Switzerland .

**PUBLICATIONS****B. Non-Refereed****Articles**

1. Bickmore, T., Schulman, D., Sidner, C. (2009) "Issues in Designing Agents for Long Term Behavior Change" to CHI'09 workshop in Engagement by Design (position paper).
2. Bickmore, T (2007) "A Virtual Nurse for Health Counseling" *MDNG Net Guide* (online publication for MDs), July.
3. Bickmore, T (2007) "Virtual Nurses for Patient Education and Counseling" *Most Wired Online magazine* (online publication for hospital execs), June.

**PUBLICATIONS****C. Book Chapters**

1. Bickmore, T. (in press) "Etiquette in Motivational Agents: It's not always about being nice." in "*Human Computer Etiquette*", Chris Miller and Caroline Hayes, eds. Taylor and Francis.
2. T. Bickmore (in press) "Relational Agents for Chronic Disease Self Management, *The Informatics of Diabetes*, M. Hayes and W. Aspray, eds., MIT Press.
3. Bickmore, T. (2008) "Lasers" in S. Turkle (ed.) *Falling for Science: Objects in Mind*, MIT Press.
4. Bickmore, T. and Picard, R. (2006) "Future of Caring Machines" in R. Bushko (ed.) *Future of Intelligent and Extelligent Health Environment*, IOS Press, Amsterdam. pp. 132-145.

**PUBLICATIONS**  
**C. Book Chapters**  
*Continued*

5. Tim Bickmore, Justine Cassell (2004) "Social Dialogue with Embodied Conversational Agents" In J. van Kuppevelt, L. Dybkjaer, and N. Bernsen (eds.), ***Natural, Intelligent and Effective Interaction with Multimodal Dialogue Systems***. New York: Kluwer Academic.
6. Cook, L., Bickmore, T., Bly, S., Churchill, E. and Prevost, S. (1999) "Autonomous Synthetic Computer Characters as Personal Representatives" in ***Human Cognition and Social Agent Technology***, K. Dautenhahn (Guest-editor). John Benjamins Publishing Company (In the Advances in Consciousness Research series).
7. Cassell, J., Bickmore, T., Campbell, L., Vilhjálmsón, H. and Yan, H. (1999) "Conversation as a System Framework: Designing Embodied Conversational Agents." In ***Embodied Conversational Agents***, J. Cassell, S. Prevost, E. Churchill, and J. Sullivan (editors). MIT Press.
8. Cassell, J., Vilhjálmsón, H., Chang, K., Bickmore, T., Campbell, L. and Yan, H. (1999) "Requirements for an Architecture for Embodied Conversational Characters." ***Computer Animation and Simulation '99*** (Eurographics Series). Vienna, Austria: Springer Verlag.

**PUBLICATIONS**  
**D. Abstracts**

1. Ehrenfeld, J, Sandberg, W, Kwo, J, Bickmore, T (2010) "Use of a Computer Agent to Explain Anesthesia Concepts to Patients", ***Proceedings 2010 Annual Meeting of the American Society of Anesthesiologists***.
2. Pfeifer, L, Bickmore, T (2010) "Designing Embodied Conversational Agents to Conduct Longitudinal Health Interviews", ***Proceedings Intelligent Virtual Agents conference (IVA), Philadelphia, PA***
3. Velicer, W, Bickmore, T, Bryan Blissmer, B, Redding, C, Johnson, J, Meier, Zaffini, J (2009) "Relational Agent Interventions for Multiple Risk Factors: Demonstration and Initial Results", ***Psychology & Health***, 24, 403
4. Bickmore, T (2009) "Relational Agents for Addressing Health Literacy", ***Proceedings of First Annual Health Literacy Research Conference, National Academy of Sciences, Washington, DC***.
5. Bickmore, T. (2009) "A Responsive Virtual Human Museum Guide at the Boston Museum of Science", ***Proceedings Museums & the Web conference***, Indianapolis.
6. Bickmore, T., Gruber, A., Intille, S. (2008) Just-in-Time Automated Counseling for Physical Activity Promotion, ***Proceedings American Medical Informatics Association (AMIA) Annual Symposium***, Washington, DC.
7. Bickmore, T (2008) "Addressing Low Health Literacy with Animated Computer Agents", ***Proceedings NIH Summit on The Science of Eliminating Health Disparities***, Washington DC.
8. Bickmore T (2006) "Wearable Relational Agents for Health" ***Annals of Behavioral Medicine*** 31 (Suppl):S185.
9. Bickmore, T. (2005) "Affecting Health Behavior through Parasocial Involvement with Interactive Computer Characters", ***Proceedings IARR Mini-Conference on Exploring Relationships in Health or Health of Relationships***, Indianapolis, IN.
10. Bickmore, T. (2005) "Relational Agents for Patient Education and Counseling" ***Proceedings International Conference on Communication in Healthcare***, Chicago, IL.

**PUBLICATIONS****D. Abstracts  
Continued**

11. Bickmore, T. (2005) "Behavioral Informatics: a Perspective from Informatics" *Proceedings Society for Behavioral Medicine* Annual Meeting, Boston, MA.
12. Bickmore, T. (2005) "Conversational Health Assessment" CHI'05 *Proceedings Workshop on HCI Challenges in Health Assessment*, Portland, OR.
13. Bickmore, T. (2004) "Connecting Elders to Home-based Care-giving Agents" *Proceedings CHI '04 Workshop on Home Technologies to Keep Elders Connected*, Vienna.
14. Bickmore, T. (2004) "Relational Agents for Home-based Elder Care" *Proceedings CHI '04 Workshop on HCI and Homecare: Connecting Families and Clinicians*, Vienna.
15. Bickmore, T. (2002). "When Etiquette Really Matters: Relational Agents and Behavior Change." *Proceedings of the AAAI Fall Symposium on Etiquette for Human-Computer Work*, November 15-17, Falmouth, MA.

**PRESENTATIONS****E. International**

1. 9/17/09 "Personal Health Advocates", University of Twente Computer Science Colloquium, Twente, Netherlands.

**PRESENTATIONS****F. National**

1. 7/29/10 "Relational Agents in Nursing", American Medical Informatics Association (AMIA) Nursing Informatics SIG, webinar.
2. 5/4/10 "Emerging Technologies - Demo of the Workflow Toolkit and the Virtual Patient Advocate" (with Brian Jack, MD, BMC), Agency for Healthcare Research and Quality (AHRQ) Annual Health IT Grantee and Contractor Meeting, Washington, DC.
3. 4/9/10 - "Patient Care for the Hospital-to-Home Transition", National Advisory Council for the Agency for Healthcare Research and Quality, Rockville, MD.
4. 3/12/10 "Anthropomorphic Interfaces for the Underserved", Stanford Seminar on People, Computers, and Design, Stanford University, CA.
5. 3/10/10 "Relational Agents for Patient Education and Counseling", Biomedical Informatics Seminar, University of Arizona/Arizona State University College of Medicine.
6. 3/10/10 "Personal Health Advocates", Arts, Media and Engineering Program Seminar, Arizona State University.
7. 3/4/10 "Personal Health Advocates", GVU Brown Bag talk, Georgia Tech, Atlanta.
8. 9/23/09 "Personal Health Advocates", University of Illinois, Urbana-Champaign Computer Science Colloquium.
9. 9/29/09 "Intelligent Caring Machines: Real Emotions in Virtual Worlds", Future of Health Technology Summit 2009, MIT, Cambridge, MA.
10. 5/2/09 "Relational Agents: Adding the Human Touch to Telemedicine", at "Patient-Centered Computing and eHealth: Transforming Healthcare Quality", sponsored by Partners Healthcare and Harvard Medical School.

**PRESENTATIONS**  
**F. National**  
*Continued*

11. 7/24/09 “Taking the Time to Care: Empowering Low Health Literacy Hospital Patients with Virtual Nurse Agents” webinar for The Innovation Learning Network – 19 attendees (consortium of hospitals and design firms, exploring new concepts in healthcare).
12. 3/31/09 “Improving Patient Safety: Implementing Re-Engineered Hospital Discharges Web Conference” with Brian Jack, MD, webcast to 1,469 attendees, Sponsored by the U.S. Agency for Healthcare Research and Quality.
13. 1/30/09 “Dialogue Systems for Longitudinal Health Counseling” – Worcester Polytechnic Institute Computer Science Colloquium.
14. 9/19/08 “New Health IT System to Assist Patient Transitions and for Preconception Care”, Centers for Disease Control and Prevention, Atlanta.
15. 9/23/08 “Relational Agents for Health Communication”, Future of Health Technology Institute Summit, MIT.
16. 10/1/08 “Relational Agents: Social and Communicative Competencies for Maintaining Engagement with Users Over Multiple Interactions”, USC Computer Science Colloquium.
17. 10/2/08 “Long-Term Human-Computer Relationships”, Workshop on Intelligent Lifelong Learning Companions, USC Institute for Creative Technologies.
18. 11/10/08 “Movie Magic in the Clinic: Computer-Generated Characters for Automated Health Counseling”, American Medical Informatics Association annual meeting, Washington, DC.
19. 6/3/08, “Relational Agents for Health Behavior Change”, Summit on Behavioral Telehealth: Technology for Behavior Change & Disease Management, Harvard Medical School,
20. 6/3/08 “Relational Agents for Clinical Care”, Gaming, Simulation & Social Media in Behavioral Health & Disease Management, Summit on Behavioral Telehealth post-conference workshop, Harvard Medical School.
21. 3/28/08 “Relational Agents: Adding the Human Touch to Telemedicine”, invited talk, *Patient-Centered Computing and eHealth: Transforming Healthcare Quality*, Omni Parker House Hotel, Boston.
22. 3/19/08 “I’m not a Social Robot, but I Play One on TV!”, *NSF CPATH Workshop on Social Robotics*, Invited talk, Schenectedy Museum, Schenectedy, NY.
23. 11/9/07 “Relational Agents for Health Communication”, *Merck & Co, Inc. pharmaceuticals I-D-E-A Innovation Conference*, Blue Bell, PA.
24. 3/24/07 “Relational Agents for Health Behavior Change” Symposium on “Applying Biomedical Informatics to Cancer Screening: The Future is Now”, *Society of Behavioral Medicine annual conference*, Washington, DC.
25. 2/22/07 “Relational Agents: Virtual Nurse and Portable Exercise Advisor”, *Future of Health Technology Symposium*, Centers for Disease Control, Atlanta, GA.
26. 10/13/06 “Automated Tailoring in Health Dialogue Systems”, *Conference on Targeting & Tailoring for Health Interventions*, Univ. of Connecticut, Storrs, CT.

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- PRESENTATIONS**  
**F. National**  
*Continued*
27. 9/25/06 “Relational Agents Group Demonstrations: Portable Exercise Coach and Virtual Nurse”, Future of Health Technology Summit, MIT, Cambridge, MA.
  28. 5/31/06 “Machines that Care: Building Empathy into Assistive Devices” invited talk given at the *State of the Science Conference on Exercise and Recreational Technologies for People with Disabilities*, Denver, CO.
  29. 9/26/05 “Future of Caring Machines” invited talk given at the *Future of Health Technology Summit*, Cambridge, MA.
  30. 8/17/05 “Long-Term Human-Computer Relationships” invited talk given at biannual meeting of the *National Academy of Sciences Committee on Human Factors*, Woods Hole, MA.
- PRESENTATIONS**  
**G. Regional /**  
**Local**
1. 6/10/10 “Improving Informed Consent: Computer Relational Agents for Patient Anesthesia Education and Consent”, Department of Anesthesia, Critical Care and Pain Medicine Case Conference, Massachusetts General Hospital, Boston, MA.
  2. 5/21/10 “Relational Agents in Nursing”, Closing Keynote, New England Nursing Informatics Consortium (NENIC) Annual Symposium, Waltham, MA.
  3. 5/14/10 “Relational Agents for Patient Education and Counseling”, IBM Watson Research Center, Yorktown Heights, NY.
  4. 4/27/10 “Health Promotion and Social Support by Relational Agents”, IBM Research Cambridge – Social Networking & Collaboration research groups.
  5. 4/21/10 “Personal Health Advocates”, Northeastern University “Insights” lecture, NU Alumni Center.
  6. 3/17/10 “Computer Agents to Promote Walking in Older Adults with Low Health Literacy”, Health & Disability Research Institute, Boston University School of Public Health.
  7. 2/4/10 “Relational Agents for Patient Education and Counseling” invited talk given at the North Shore Cardiovascular Nursing Association Annual Meeting, Danvers, MA.
  8. 1/15/10 “ElderWalk – Lessons Learned”, Pepper Center Geriatrics Career Development Seminar, Boston University School of Medicine.
  9. 11/2/07 “Relational Agents for Health Counseling”, Guest lecture in *Designing Interactive Characters* course, part of the Computer Game Design curriculum, Prof. Katherine Isbister, instructor, Rensselaer Polytechnic Institute.
  10. 11/1/07 “Engagement, Stickiness and Adherence: Keeping users entranced, even when it's for their own good”, Northeastern University CCIS PhD Seminar, Northeastern University.
  11. 10/17/07 “Engagement, Stickiness and Adherence: Keeping users entranced, even when it's for their own good”, *Tufts University Computer Science Dept Colloquium*.
  12. 9/25/07 “Conversational Agents for Health Communication with Low Literacy Patients”, *BMC Family Medicine Grand Rounds*, Boston Medical Center.
  13. 4/23/07 “What Would Jiminy Cricket Do? Lessons from the first Social Wearable”, *MIT Media Lab Affective Computing Group Seminar*, MIT.

**PRESENTATIONS**  
**G. Regional /**  
**Local**  
*Continued*

14. 4/19/07 “What Would Jiminy Cricket Do? Lessons from the first Social Wearable”, *Northeastern University Science, Technology and Society Seminar*, Northeastern University.
15. 4/18/07 “Empathic Computer Characters for Health Behavior Change” *Electronic Media & Health Behavior Change Interest Group*, New England Research Institute, Watertown, MA.
16. 3/29/07 “Relational Agents for Comforting and Pain Management” *Johnson & Johnson workshop on technologies for chronic pain management*, MIT, Cambridge, MA.
17. 3/5/07 “Cognitive Science in Medical Informatics” *BU GMS 706 Computer Applications in Health Care and Biomedicine* (guest lecture), Boston University School of Medicine.
18. 3/1/07 “Entrepreneurship in Health and Technology” *Northeastern University's “Entrepreneurship Week”* (presentation and panel discussant).

**EXHIBITIONS**  
**H. National**

1. 10/9/09 A customized version of the Virtual Nurse system was demonstrated to Kathleen Sebelius, Secretary of Health and Human Services, by Carolyn Clancy, Director of the Agency for Healthcare Research and Quality. Agency for Healthcare Research and Quality, Rockville, MD.
2. 7/16/08 A custom Relational Agent system was demonstrated to Admiral Gary Roughneck, Chief of Naval Operations at the Pentagon, as part of an annual briefing on future technologies for the naval operations. Organized and presented by the Strategic Studies Group. Washington, DC.

**EXHIBITIONS**  
**I. Local**

1. 10/27-28/09 – Virtual Nurse system demonstrated (along with 4 other Relational Agent systems) at the CIMIT Innovation Congress Exploratorium, Boston.
2. 2/24/08-Present – “Tinker” Semi-permanent installation opened in the ComputerPlace exhibit at the Boston Museum of Science. Tinker is a virtual museum guide that gives directions to and explanations of museum exhibits, describes her own implementation, and uses social and relational behavior together with a biometric user identification system to engage museum visitors in running conversations during their visit. Over 100,000 museum visitors have interacted with Tinker since the opening.

**J. PATENTS**

1. Bickmore, T., Schilit, W., Girgensohn, A., and Sullivan, J. (2005) *Document re-authoring systems and methods for providing device-independent access to the world wide web*, Fuji Xerox Co & Xerox Corp. US Patent 6,857,102 granted February 15, 2005.
2. Prevost, S., Bickmore, T., Sullivan, J. Churchill, E., and Girgensohn, A. (2003) *Method and apparatus for embodied conversational characters with multimodal input/output in an interface device*, Fuji Xerox Co & Xerox Corp. US Patent 6,570,555 granted May 27, 2003.
3. Bickmore, T., Sullivan, J., Churchill, E., Bly, S. and Cook, L. (2002) *Method and Apparatus for Creating Personal Autonomous Avatars*. Xerox Corporation. US Patent 6,466,213 granted October 15, 2002.

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**J. PATENTS,  
continued**

4. Wilcox, L., Schilit, W., Sawhney, N., Sullivan, J. and Bickmore, T. (1998) *System for capturing and retrieving audio data and corresponding hand-written notes*. Xerox Corporation and Fuji Xerox Company, Ltd. U.S. Patent 5,970,455, Granted Oct. 19, 1999. International Patent granted in June 1998.
5. Makel, D., Jansa, E., Cahill, D. and Bickmore, T. (1996) *Remotely controllable LNG field station management system and method*. U.S. Patent 5,586,050, Granted December 17th, 1996.

**GRANTS  
K. External  
Funded**

1. NIH/NCI (Bickmore, Michael Paasche-Orlow, MD, BMC, co-PIs) “Research Ethics and Safety Promoted by Embodied Conversational Technology (RESPECT)”, 4/1/11-3/31/16, subcontract to Boston Medical Center, NU total funding is \$1,513,722.
2. NSF HCC Core Program (Candace Sidner, Chuck Rich, Bickmore co-PIs) “Always-On Relational Agents for Social Support of Older Adults” \$1.8M total, NU total funding is \$664k, 9/1/10-8/31/14. *Note: the Program Officer told us that our grant has been “selected for funding” on 5/26/10, and confirmed on 8/21/10 that it was in the process of being funded, but as of 9/8/10 we have not received the NoGA.*
3. NIH National Cancer Institute (Katherine Tucker, P50 Center Grant PI, Carmen Sceppa, Project PI), “Boston Puerto Rican Health Study - CVD Risk Factors”, 7/1/10—6/29/15, NU total funding \$9.9M, Bickmore lab funding, \$546,283. *Note: We have been told by Sceppa that the grant is in the process of being funded, but as of 9/8/10 we have not received official notification.*
4. Agency for Healthcare Research and Quality (Brian Jack, PI, Bickmore subcontract PI) “Using Innovative Communication Technology to Improve the Health of Young African American Women”, 7/1/09-12/31/10, subcontract to Boston Medical Center, NU funding is \$188K.
5. NIH National Library of Medicine (Bickmore, PI), “Computational Models of Health Behavior Change Dialog”, 9/1/07—8/31/09, NU total funding is \$405,285.
6. NIH National Institute on Aging (Rebecca Silliman, PI, Bickmore subcontract PI), “Computer Agents to Promote Walking in Older Adults with Low Health Literacy”, subcontract to Boston Medical Center Geriatrics, 9/1/07—8/31/11, NU total funding is \$654,854.
7. NIH/National Cancer Institute (Abby King, PI, Bickmore, subcontract PI) “Computer-Based Activity Advice for Ethnic Minority Aging Adults”, 9/1/07—8/31/09, subcontract to Stanford University School of Medicine, NU total funding is \$163,939.
8. NIH/National Cancer Institute (Wayne Velicer, PI, Bickmore, subcontract PI), “Online Tailored Interventions and Relational Agents for Exercise and Sun Protection”, 8/1/07—7/30/12, subcontract to University of Rhode Island, NU total funding is \$752,517.
9. Agency for Healthcare Research and Quality (Brian Jack, PI, Bickmore subcontract PI) “Virtual Patient Advocate to Reduce Adverse Drug Events”, subcontract to Boston Medical Center, 7/1/07-6/30/10, NU funding is \$356,802.
10. Partners Healthcare Center for Connected Health, Internal Research and Development (Alice Watson PI, Bickmore subcontract PI) “The role of a virtual coach in improving adherence to an activity program for overweight adults”, 6/1/06—12/31/08, NU total funding is \$30,626.
11. NSF CAREER (Bickmore, PI) “A Virtual Laboratory for Studying Long-Term Human-Computer Relationships”, 4/28/06—4/27/11, NU total funding is \$497,607.

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**GRANTS**  
**K. External**  
**Funded**  
*Continued*

12. Eli Lilly Pharmaceuticals (Kathryn Puskar, PI, Bickmore, subcontract PI), “Medication Adherence in Young Adults with Schizophrenia”, 4/1/06—12/31/08, subcontract to Univ. of Pittsburgh School of Nursing, NU total funding is \$21,980.
13. NIH/National Heart Lung and Blood Institute (Brian Jack, PI, Bickmore, subcontract PI) “A RCT to Reduce Cardiopulmonary Re-hospitalizations”, 1/1/06—9/1/10, subcontract to Boston Medical Center, NU total funding is \$416,833.
14. NIH/National Library of Medicine (Bickmore, PI) “Just in Time Information for Exercise Adoption”, 8/1/05—7/29/08, NU total funding is \$317,702.

**GRANTS**  
**M. External**  
**Not Funded**

1. NIH (Michael Paasche-Orlow, Brian Jack, Bickmore co-PIs) “Preventing Rehospitalizations with Cell Phone-Based Relational Agents”, 8/1/10-7/31/13, subcontract to Boston Medical Center, \$3.5M total, NU total funding is \$638k.
2. Department of Defense Congressionally Directed Medical Research Programs on Post Traumatic Stress Disorder (James Cartreine, Claudia Zayfert, Bickmore co-PIs) “Computer-guided Prolonged Exposure for PTSD”, in collaboration with Harvard Medical School (Cartreine) and Dartmouth Medical School (Zayfert), \$4.5M total, NU total \$1.4M, over 4 years.
3. NIH (Brian Jack, PI, Bickmore subcontract PI) “An RCT of an Innovative Health IT Preconception Care Intervention”, subcontract to BMC, total \$4.025M, NU total funding \$814,728 over 5 years.
4. American Heart Association (Bickmore, subcontract PI, sub to Stanford University School of Medicine) “Computer-Based Physical Activity Advice for Low-Income Multiethnic Older Adults”, NU total funding is \$186,230 over 2 years.
5. Centers for Disease Control and Prevention (Bickmore, subcontract PI, sub to BMC/BU Medical School) “A RCT to Test the Effectiveness of ECAs and TLC to Improve Parenting Programs”, NU total funding is \$209,622.
6. NSF, (Bickmore & C. Hafner, co-PIs) “Empirical Research Methods for Information Science and Technology: Curriculum, Teaching Materials and Capstone Project Guidelines”, \$149,409.
7. Robert Wood Johnson Foundation (Bickmore, subcontract PI, sub to BMC Pediatrics), “Improving Child Health with Personalized Conversational Technologies” NU total funding is \$64,000.
8. European Union (Bickmore, consortium member PI, consortium led by Consorzio di Bioingegneria e Informatica Medica, Pavia, Italy (CBIM)) “PRESTO: PREvention and Life Style management of Type 2 diabetes mellitus using information technology”. BU total funding is \$134,882 (while at BU).

**GRANTS**  
**N. Internal**  
**Funded**

1. Northeastern University Bouve College of Health Sciences Pilot Project Grant (Roger Edwards, PI), “Using Computer Agents to Provide Information and Support to Breastfeeding Mothers”, 5/1/10-12/1/10, \$5,000.
2. Boston University Department of Medicine Pilot Project Grant (Bickmore, PI) “Impact of Relational Agent Technology on Exercise Adoption in an Older Adult Population” 7/1/03—12/31/04, \$14,000 (while at BU).

**TEACHING**  
**O. Courses**

1. IS 4800, Empirical Research Methods for Information Science, Spring 2010, 13 students.
2. CS G170, Human-Computer Interaction, Fall 2009, 32 students.
3. IS U580, Empirical Research Methods for Information Science, Spring 2009, 11 students.
4. CS G170, Human-Computer Interaction, Fall 2008, 13 students.
5. IS U580, Empirical Research Methods for Information Science, Spring 2008, 24 students.
6. CS G228, Empirical Research Methods, Spring 2008, 4 students (developed new content for this course).
7. CS G170, Human-Computer Interaction, Fall 2007, 15 students.
8. IS U580, Empirical Research Methods for Information Science, Spring 2007, 25 students.
9. CS G170, Human-Computer Interaction, Fall 2006, 21 students.
10. IS U580, Empirical Research Methods in Information Science, Spring 2006, 23 students (developed all new content for this course).
11. CS G170, Human-Computer Interaction, Fall 2005, 16 students (developed all new content for this course).

**TEACHING**  
**P. Supervision of**  
**Graduate Students**

Ph.D. Students advised:

1. Daniel Schulman (advisor, 6<sup>th</sup> year).
2. Laura Pfeifer (advisor, 5<sup>th</sup> year).
3. Langxuan (James) Yin (advisor, 4<sup>rd</sup> year).

Ph.D. Students “mentored” (within first two years):

1. James Satterly (mentor).
2. Daniel Mauer (mentor).
3. George Shaw (mentor).
4. Lazlo Ring (mentor).

Master’s Students advised:

1. Rukmal Fernando, defended 12/17/09, thesis “Automated Explanation of Research Informed Consent by Embodied Conversational Agents”

Other Graduate Supervision Activities – Project Courses:

1. CS 674 MS Project, Summer '10, supervised CS Master’s student: Rauno Peets.
2. CS 674 MS Project, Spring '10, supervised CS Master’s student: Dina Utami.
3. Nursing Research Practicum, Spring '10, supervised Elizabeth Gallagher.
4. CS 674 MS Project, Fall '07, supervised two CS Master’s students: Chaamari Senanayake and Sepalika Perera.
5. CS 664 Reading, Fall '07, supervised CS Master’s student: Vrushali Tole.
6. Nursing Research Practicum, Summer '07, supervised David Patterson and Keith Wandolowski.
7. CS674 MS Project, Fall '06, supervised two CS Master’s students: Sam Carroll and William Goode.

**TEACHING**

**P. Supervision of  
Graduate Students**  
*Continued*

Service on Ph.D. committees:

1. Hua Cai, Northeastern University Department of Mechanical and Industrial Engineering, defense 8/27/10.
2. Audrey Girouard, Tufts University Department of Computer Science, defense 5/28/10.
3. Cory Kidd, MIT Media Lab, Ph.D. general exam committee, 2/05.

**Q. Other Advising  
Activities**

1. IS U691 Field Study, Fall '07-Spring'08, supervised undergraduate: Mark Catalano.

**SERVICE**

**R. College**

1. Chair, Health Sciences/Computer Science Health Informatics Search Committee, Fall'09-Spring '10
2. Hiring Committee, Fall'08-Spring'09
3. Ph.D. Committee, Spring '06-Spring '08
4. Undergraduate Committee, Fall '05.

**SERVICE**

**S. Profession**

Conference/workshop chair:

1. Co-Chair, 2010 Intelligent Virtual Agents (IVA) Conference, with Norm Badler, Catherine Pelachaud, and Jan Allbeck.
2. Co-Chair, 2009 ACM Computer-Human Interaction (CHI) Workshop on "Engagement by Design", with Stephen Intille and Sunny Consolvo.
3. Co-Chair, 2006 Association for the Advancement of Artificial Intelligence (AAAI) Spring Symposium on "Argumentation for Consumers of Healthcare", with Nancy Green.
4. Chair, 2005 AAAI Fall Symposium on "Caring Machines: AI in Eldercare"
5. Chair, 2004 AAAI Fall Symposium on "Dialogue Systems for Health Communication"

Journal editor:

1. Member editorial board, Interacting with Computers journal.
2. Guest editor for special issue of the Interacting with Computers journal on "Supporting Interaction: Computers Interventions in Mental Health", 22(10), 2010.
3. Guest editor for special issue of the Journal of Biomedical Informatics on "Dialog Systems for Health Communication", 39, 2006.

Reviewer for the following journals:

1. ACM Transactions on Computer-Human Interaction (ToCHI)
2. Communications of the ACM
3. International Journal of Human-Computer Studies
4. International Journal on Artificial Intelligence in Medicine
5. Interacting with Computers
6. Journal of Biomedical Informatics
7. Journal of Medical Internet Research
8. Transactions on Speech and Language Processing
9. User Modeling and User-Adapted Interaction
10. IEEE Transactions on Affective Computing

**SERVICE**  
**S. Profession**  
*Continued*

Reviewer for the following conferences:

1. ACM International Health Informatics (IHI) Conference (2010)
2. ACM SIGCHI Conference on Human Factors in Computing Systems (CHI)(2005-2010)
3. ACM Symposium on User Interface Software and Technology (UIST)(2006)
4. American Medical Informatics Association (AMIA) Annual Symposium (2007, 2008, 2011)
5. Association for the Advancement of Artificial Intelligence (AAAI) Symposia (2005—2010)
6. Association for Computational Linguistics (ACL)(2006, 2010)
7. Autonomous Agents and Multi-Agent Systems (AAMAS)(2005,2008—2010)
8. Computer Supported Collaborative Work (CSCW)(2006)
9. Human-Robot Interaction (HRI)(2008)
10. Intelligent User Interfaces (IUI)(2008—2010)
11. Intelligent Virtual Agents (IVA)(2008—2010)
12. International Conference on Computational Linguistics (COLING)(2010).
13. International Conference on Multimodal Interfaces (ICMI)(2008)
14. Nordic Human-Computer Interaction (NordiCHI)(2010)
15. Persuasive Technology (2008, 2009)
16. Pervasive Health (2010)
17. SIGGRAPH (2004)

Reviewer for the following workshops and symposia:

1. AAMAS Workshop on Creating Bonds with Humanoids (2005)
2. AISB Symposium on Persuasive Technology (2008)
3. AISB Symposium on Mind-Minding Agents (2005)
4. AISB Symposium on Conversational Informatics for Supporting Social Intelligence & Interaction (2005)
5. Portuguese Conference on AI Workshop on Affective Computing: towards Emotional Intelligent Systems (2005)
6. PRICAI Workshop on Lifelike Animated Agents (2002)
7. Workshop on Social and Emotional Intelligence in Learning Environments (2004)

Grant reviewer for the following agencies:

1. Science Foundation Ireland, Investigator Programme Grant, 7/29/10.
2. NIH, Health Literacy panel, 6/28-6/29/10, Washington DC.
3. NSF, IIS Core program panel, 5/4/10, videoconference.
4. NSF, Advanced Learning Technologies panel, 6/9-10/08, Washington, DC.
5. NSF, CISE HCC panel, 3/1/08, Washington DC.
6. NSF, CAREER panel, 9/2/07, Washington DC.
7. NSF, HCC panel, 1/31-2/1/07, Washington DC.
8. NSF, Science of Design panel, 3/14-3/15/06, Washington DC.
9. NIH, National Library of Medicine R21 panel, 2/16/06, Washington DC.
10. NIH, National Library of Medicine R21/R03 panel, 11/29/05, Washington DC.
11. NIH, Musculoskeletal Tissue Engineering Study Section panel for Bioengineering Research Partnership grants, 11/1/05, Washington DC.