Dr. Derek Shawn Harter, BSc, MSc, PhD

Associate Professor
Journalism 208
Department of Computer Science
Texas A&M University
Commerce, TX 75429-3011

Nationality: US Citizen
Derek_Harter@tamu-commerce.edu
http://harter.pro
Tel: (903) 453-7925
Fax: (903) 886-5404

Employment

2011-pres Associate Professor, Department of Computer Science, Texas A&M University - Commerce.
2005-2011 Assistant Professor, Department of Computer Science, Texas A&M University - Commerce.
2004-2005 Visiting Professor, Department of Computer Science, Texas A&M University - Commerce.
2001-2004 Research Scientist, NASA Intelligent Systems Grant NCC-2-1244 SODAS, University of Memphis.
2000-2001 Research Scientist, ONR MURI Grant N00014-00-1-0600 Why2000, University of Memphis.
1998-2000 Principle Research Programmer, NSF Grant SBR 9720314 AutoTutor , University of Memphis.
1994-1998 Senior Software Engineer, Research and Development, MCImetro, Reston, VA
1990-1994 Software Engineer, Hughes Network Systems, Germantown, MD

Education

1998-2004 University of Memphis, Memphis, TN
Department of Mathematics and Computer Science
PhD, Computer Science
Computational Neurodynamics Laboratory (Dr. Robert Kozma)
Institute for Intelligent Systems (Dr. Stan Franklin, Dr. Arthur C. Graesser)
Graduated with Distinction
PhD Thesis:
"Towards a Model of Basic Intentional Systems: Chaotic Dynamics for Perception and Action in Autonomous Adaptive Agents"

1992-1994 Johns Hopkins University, Baltimore, MD
Department of Computer Science
MSc, Computer Science with concentration Artificial Intelligence
Graduated with Honors
MSc Thesis:
"Simple Voice Recognition System for Remote Control of Entertainment Devices"

1986-1990 Purdue University, West Lafayette, IN
Department of Computer Science
BSc, Computer Science

Publications

Journal Articles

1. Harter, D. (in press). Evolution of small-world properties in embodied networks. To appear in **Lecture Notes in Artificial Intelligence**. Springer.

2. Lu, S., Harter, D., & Pierce, D. (2011). Potentials and challenges of using virtual environments in psychotherapy. **Annals of Psychotherapy and Integrative Health**. 1, 56-66.

3. Lu, S., Harter, D. and Graesser, A. (2009). An empirical and computational study of perceiving and remembering event temporal relations. **Cognitive Science.** *33: 344-373.*
    ISI Impact Factor: 2.38

4. Harter, D., Kozma, R., and Achunala, S. (2007). Dynamical aspects of Behavior generation under constraints. **Cognitive Neurodynamics.** 1(3): 213-223.
    ISI Impact Factor: 1.13   Times Cited: 3

5. Harter, D., and Kozma, R. (2006). Aperiodic dynamics and the self-organization of cognitive maps in autonomous agents. **International Journal of Intelligent Systems.** 21(9):955-971.
    ISI Impact Factor: 0.57   Times Cited: 2

6. Harter, D., and Kozma, R. (2005). Chaotic neurodynamics for autonomous agents. **IEEE Transactions on Neural Networks.** 16(3): 565-579.
    ISI Impact Factor: 2.77   Times Cited: 19

7. Harter, D., and Lu, S. (2005). A synthesis of many levels of constraints as a modern view of development. Commentary on Steels & Belpaeme paper entitled: "Coordinating perceptually grounded categories through language". **Behavioral and Brain Sciences.** 28(3): 498-499.
    ISI Impact Factor: 15.6   Times Cited: 3

8. Harter, D., and Kozma, R. (2001). Task environments for the dynamic development of behavior. **Lecture Notes in Computer Science.** *2074:300-306.*
    ISI Impact Factor: 0.42   Times Cited: 2

9. Harter, D., Graesser, A. C. and Franklin, S. P. (2001). Bridging the gap: Dynamics as a unified view of cognition. **Behavioral and Brain Sciences,** 24(1):45-46.
    ISI Impact Factor: 15.60   Times Cited: 49

10. Graesser, A. C., VanLehn, K., Rosé, C., Jordan, P., Harter, D. (2001).   Intelligent tutoring systems with conversational dialogue. **AI Magazine.** 22(4):39-51.
    ISI Impact Factor: 1.27   Times Cited: 60

11. Graesser, A.C., Person, N., Harter, D., and the Tutoring Research Group (2000). Teaching tactics and dialog in AutoTutor. **International Journal of Artificial Intelligence in Education.** 12(3):257-279.
    ISI Impact Factor: 0.24   Times Cited: 3

12. Graesser, A. C., Wiemer-Hastings, P., Wiemer-Hastings, K., Harter, D., Person, N., & the Tutoring Research Group. (2000). Using Latent Semantic Analysis to evaluate the contributions of students in AutoTutor. **Interactive Learning Environments.** 8(2):129-148.
    ISI Impact Factor: 0.44   Times Cited: 4

13. Wiemer-Hastings, P., Graesser, A.C., and Harter, D. (1998). The foundations and architecture of AutoTutor. **Lecture Notes in Computer Science.** 1452:334-340.
    ISI Impact Factor: 0.42   Times Cited: 6

Peer-Reviewed Conference Publications

12. Harter, D., Lu, S., Kosito, P., & Kotturu, P. (in press). How controller embodiment effects task performance in computer simulated training. To appear in *Proceedings of the 7th International Conference on Human Computer*

Interaction.

13. Harter, D. (2011). Functional and Physical Constraints for Evolving Small-World Structure in Embodied Networks. *Proceedings of the 2011 International Joint Conference on Neural Networks (IJCNN 2011).*

14. Harter, D. & Lu, S., Kotturu, P. and Pierce, D. (2011). An Immersive Virtual Environment for Varying Risk and Immersion for Effective Training. *Proceedings of the ASME 2011 World Conference on Innovative Virtual Reality.*

15. Pierce, D., Lu, S. and Harter, D. (2011).   Risk taking differences affect outcomes in virtual training scenarios. *Proceedings of the ASME 2011 World Conference on Innovative Virtual Reality.*

16. Harter, D. & Zhang, L. (2010). Parallelization of Genetic Optimization for Large Network Simulations on a Cluster Computer. *Proceedings of the Society for Design and Process Science 2010.*

17. Pierce, D., Lu, S., & Harter, D. (2010). Perceiving events in simulated environments: The role of expectation driven processes. *Proceedings of the World Conference on Innovative Virtual Reality 2010.* New York: ASME Publishing.

18. Pierce, D., Lu, S., & Harter, D. (2009). Enacting actions in simulated environments. In S. Garbaya (Eds.), *Proceedings of the Inaugural World Conference on Innovative Virtual Reality.* New York: ASME Publishing.

19. Harter, D. (2007). Time Constraints and the Evolution of Scale-Free Properties in Associative Networks. *Proceedings of the NSF International Workshop on Large Scale Random Graph Methods for Modeling Mesoscopic Behavior in Biological and Physical Systems,* Budapest, Hungary*, Aug. 2007.

20. Harter, D., and Kozma, R. (2006). Nonconvergent Dynamics and Cognitive Systems. *Proceedings of the 28th Annual Meeting of the Cognitive Science Society (CogSci 2006),* Vancouver, BC Canada, Jul. 2006, pp. 1446-1452.

21. Lu, S. and Harter, D. (2006).   The role of overlap and end state in perceiving and remembering events. *Proceedings of the 28th Annual Meeting of the Cognitive Science Society (CogSci 2006),* Vancouver, BC Canada, Jul. 2006, pp. 1729-1835.

22. Harter, D. (2006). Complex Systems Approaches to Emergent Goal Formation in Cognitive Agents.   *Proceedings of the 2006 International Joint Conference on Neural Networks (IJCNN'06),* Vancouver, BC Canada*, Jul. 2006, pp. 1682-1688.

23. Harter, D. & Kozma, R. (2005). Iterative Model of Mesoscopic Neural Populations Displaying Aperiodic Dynamics. *Proceedings of the 2005 International Symposium on Nonlinear Theory and its Applications (NOLTA'05),* Bruges, Belgium, Oct. 2005.

24. Harter, D. (2005). Evolving Neurodynamic Controllers for Autonomous Robots.   *Proceedings of the 2005 International Joint Conference on Neural Networks (IJCNN'05),* Montreal, Canada, Aug. 2005, pp. 137-142.

25. Lu, S. and Harter, D. (2005). Representing Events Using Fuzzy Temporal Boundaries. *Proceedings of the 27th Annual Conference of the Cognitive Science Society*, Stresa, Italy, Jul. 2005, pp. 1343-1348.

26. Harter, D. (2005). Discrete Approximation of Continuous K-Set Population Model. *Proceedings of the Fourteenth Annual Computational Neuroscience Meeting (CNS*2005),* Madison, WI, Jul. 2005, pp. 80.

27. Lu, S. and Harter, D. (2005). A Recurrent Neural Network Model of Event Temporal Representations. *Proceedings of the 51st Southwestern Psychological Association Annual Meeting*, Memphis, TN, Mar. 2005.

28. Harter, D., and Kozma, R. (2004). Complex Systems Approaches to the Ontogenetic Development of Behavior. *Proceedings of the 3rd Annual Technical Conference of the American Institute of Aeronautics and Astronautics Conference (AIAA 2004)*, Chicago, IL, Sept. 2004, pp. 312.

29. Harter, D., and Kozma, R. (2004).   Biological Limbic Systems: A Bottom-Up Model for Deliberative Action. *Proceedings of the 26th Annual Meeting of the Cognitive Science Society (CogSci 2004),* Chicago, IL, Aug. 2004, pp. 1569.

30. Harter, D., and Kozma, R. (2004). Navigation and cognitive map formation using aperiodic neurodynamics*. Proceedings of the 8th International Conference on the Simulation of Adaptive Behavior (SAB'04)*, Los Angeles, CA, July 2004, pp. 450-455.

31. Harter, D., and Kozma, R. (2004). Aperiodic dynamics and the self-organization of cognitive maps in autonomous agents*. Proceedings of the 17th International FLAIRS Conference (FLAIRS'04)*, Miami, FL, May 2004, pp. 424-429.

32. Harter, D., and Kozma, R. (2004). Aperiodic dynamics for appetitive/aversive behavior in autonomous agents*. Proceedings of the 2004 IEEE International Conference on Robotics and Automation (ICRA'04),* New Orleans, LA, April 2004, pp. 2147-2152.

33. Harter, D., and Kozma, R. (2002). Simulating the principles of chaotic neurodynamics*.* In *Proceedings of the 6th World Multi-Conference on Systemics, Cybernetics and Informatics (SCI 2002),* volume XIII, pages 598-603, Orlando, FL.

34. Kozma, R., Harter, D. and Achunala, S. (2002).   Action selection under constraints: Dynamic optimization of behavior in machines and humans*.* In *Proceedings of the IEEE/INNS/ENNS International Joint Conference on*

Neural Networks (IJCNN'02), pages 2574-2579, Washington, D.C.

35. Harter, D. (2001). Ontogenetic development of skills, strategies and goals for autonomously behaving systems. In *Proceedings of the 5th World Multi-Conference on Systemics, Cybernetics and Informatics (SCI 2001),* pages 178-181, Orlando, FL.

36. Harter, D., and Kozma, R. (2001). Models of ontogenetic development for autonomous adaptive systems*.* In *Proceedings of the 23rd Annual Conference of the Cognitive Science Society,* pages 405-410, Edinburgh, Scotland.

37. Harter, D., and Kozma, R. (2001). Task environments for the dynamic development of behavior*.* In *Proceedings of the Intelligent Systems Design and Applications 2001 Workshop (ISDA 2001),* pages 300-309, San Francisco, CA.

38. Harter, D., and Kozma, R. (2001). Ontogenetic development of behavior for simple tasks*.* In *Proceedings of the Artificial Intelligence and Soft Computing Conference (ASC 2001),* pages 401-407, Cancun, Mexico.

39. Harter, D., Kozma, R. and Franklin S. P. (2001). Models of ontogenetic development: The dynamics of learning*.* In *Proceedings of the 2001 Learning Workshop,* page 37, Snowbird, UT.

40. Harter, D., Kozma, R. and Franklin S. P. (2001). Ontogenetic development of skills, strategies and goals for autonomously behaving systems*.* In *Proceedings of the Fifth International Conference of Cognitive and Neural Systems (CNS2001),* page 18, Boston, MA.

41. Kozma, R., Harter, D. and Franklin S. P. (2001). Self-organizing ontogenetic development for autonomous adaptive systems (SODAS)*.* In *Proceedings of the IEEE/INNS/ENNS International Joint Conference on Neural Networks (IJCNN'01),* pages 633-637, Washington, D.C.

42. Graesser, A.C., Person, N., Harter, D., and the Tutoring Research Group (2000). Teaching tactics in AutoTutor. In *Proceedings of the Workshop on Tutorial Dialogue at the Intelligent Tutoring Systems 2000 Conference*. pages 49-57, University of Quebec, Canada.

43. Marineau, J., Wiemer-Hastings, P., Harter, D., Olde, B., Chipman, P., Karnavat, A., Pomeroy, V., Graesser, A.C., and the Tutoring Research Group (2000). Classification of speech acts in tutorial dialog. In *Proceedings of the Workshop on Tutorial Dialogue at the Intelligent Tutoring Systems 2000 Conference*.

44. Wiemer-Hastings, P., Graesser, A. C., Harter, D., & the Tutoring Research Group (1998). The foundations and architecture of AutoTutor. In *Proceedings of the 4th International Conference on Intelligent Tutoring Systems,* pages 334-343, Berlin Springer-Verlag.

Under Review

Harter, D., Lu, S., (under review). Low-cost immersive environments for embodied perceptual-motor training using Wii Remotes.

Harter, D. & Saffer, S. (under review). Project Corvus, a net-centric cognitive architecture for large-scale wireless sensor networks.

Invited Talks

Harter, D. (December, 2011). Evolution of Large-Scale Complex Brain Networks. Invited Physics Colloquium talk presented at the Department of Physics, Texas A&M University – Commerce, Commerce, TX.

Lu, S., & Harter, D. (October, 2011). The perceptual grounding of actions in virtual environments. Invited talk presented at Department of Psychology, University of Utah, Salt Lake City.

Harter, D., & Lu, S. (July, 2011). A bottom up approach to investigating embodiment in virtual environments. Invited talk presented at the Experimental Virtual Environments for Neuroscience and Technology Research Group, University of Barcelona, Spain.

Harter, D., Saffer, S. (2007). "Project Corvus and L3 HPC Activities at TAMUC", Texas A&M University - Commerce Math Colloquium, April 3.

Harter, D., Saffer, S. (2007). "Computational Sciences and High Performance Computing", Texas A&M University - Commerce Physics Colloquium, February 15.

Harter, D. (2007). Time Constraints and the Evolution of Scale-Free Properties in Associative Networks. Paper presented at the 1st NSF International Workshop on Large Scale Random Graph Methods for Modeling Mesoscopic Behavior in Biological and Physical Systems*,* Budapest, Hungary*,* Aug. 2006.

Harter, D. (2004). "Computing, Life Sciences and Cognition: Interdisciplinary Approaches to Understanding Intelligence", Texas A&M University - Commerce, Sigma XI Society semi-annual meeting, December 2.

Harter, D. (2004). "Salamanders Don't Play Chess: Computation, Sciences and Careers for the 21st Century", Mesquite Metroplex Center Mentoring Workshop, November 13.

Conference Presentations

Harter, D. (August, 2011). Functional and Physical Constraints for Evolving Small-World Structure in Embodied Networks. Paper presented at the Proceedings of the 2011 International Joint Conference on Neural Networks (IJCNN 2011).

Lu, S., Pierce, D., Rawlinson, T., & Harter, D. (June, 2011). The role of high visual realism in reducing potential risk taking in simulated environments. Paper presented at the World Conference on Innovative Virtual Reality, Milan, Italy.

Harter, D., Lu, S., Kotturu, P., & Pierce, D. (2011). An immersive virtual environment for varying risk and immersion for effective training. Paper presented at the World Conference on Innovative Virtual Reality, Milan, Italy.

Pierce, D., Lu, S., & Harter, D. (May, 2010). Perceiving events in simulated environments: The role of expectation driven processes. Paper presented at the World Conference on Innovative Virtual Reality, Ames, Iowa.

Zhang, L. & Harter, D. (2010). Parallelization of Genetic Optimization for Large Network Simulations on a Cluster Computer. Proceedings of the Society for Design and Process Science 2010, Dallas, TX.

Pierce, D., Lu, S., & Harter, D. (2009). Enacting actions in the simulated environments. Paper presented at the Inaugural World Conference on Innovative Virtual Reality, Chalon-sur-Saône, France.

Harter, D., and Kozma, R. (2006). Nonconvergent Dynamics and Cognitive Systems. Poster presented at the 28th Annual Meeting of the Cognitive Science Society (CogSci 2006), Vancouver, BC Canada, Jul. 2006.

Lu, S. and Harter, D. (2006). The role of overlap and end state in perceiving and remembering events. Poster presented at the 28th Annual Meeting of the Cognitive Science Society (CogSci 2006), Vancouver, BC Canada, Jul. 2006.

Harter, D. (2006). Complex Systems Approaches to Emergent Goal Formation in Cognitive Agents. Paper presented at the 2006 International Joint Conference on Neural Networks (IJCNN'06), Vancouver, BC Canada, Jul. 2006.

Harter, D. (2005). Evolving Neurodynamic Controllers for Autonomous Robots. Paper presented at the 2005 International Joint Conference on Neural Networks (IJCNN'05), Montreal, Canada, Aug. 2005.

Harter, D. (2005). Applications of IDS: Mead's Challenge, What is Going on Here?. Invited talk at the 2005 International Joint Conference on Neural Networks (IJCNN'05) Workshop on Intentional Dynamical Systems, Montreal, Canada, Aug. 2005.

Lu, S. and Harter, D. (2005). Representing Events Using Fuzzy Temporal Boundaries. Poster presented at the 27th Annual Conference of the Cognitive Science Society, Stresa, Italy, Jul. 2005.

Harter, D. (2005). Discrete Approximation of Continuous K-Set Population Model. Poster presented at the Fourteenth Annual Computational Neuroscience Meeting (CNS*2005), Madison, WI, Jul. 2005.

Lu, S. and Harter, D. (2005). A Recurrent Neural Network Model of Event Temporal Representations. Poster presented at the 51st Southwestern Psychological Association Annual Meeting, Memphis, TN, Mar. 2005.

Harter, D., and Kozma, R. (2004). Complex Systems Approaches to the Ontogenetic Development of Behavior. Paper presented at 1st Intelligent Systems Technical Conference of the American Institute of Aeronautics and Astronautics (AIAA'04), Chicago, IL, September 2004.

Harter, D., and Kozma, R. and Freeman, W.J. (2004). Biological Limbic Systems: A Bottom-Up Model for Deliberative Action. Poster presented at the 26th Annual Meeting of the Cognitive Science Society (CogSci 2004), Chicago, IL, August 2004.

Harter, D., and Kozma, R. (2004). Navigation and Cognitive Map Formation Using Aperiodic Neurodynamics. Paper presented at From Animals to Animats 8: The 8th International Conference on the Simulation of Adaptive Behavior (SAB '04), Los Angeles, CA, July 2004.

Harter, D., and Kozma, R. (2004). Aperiodic dynamics and the self-organization of cognitive maps in autonomous agents. Paper presented at the 17th International FLAIRS Conference (FLAIRS'04), Miami, FL, May 2004.

Harter, D., and Kozma, R. (2004). Aperiodic Dynamics for Appetitive/Aversive Behavior in Autonomous Agents. Paper presented at the 2004 IEEE International Conference on Robotics and Automation (ICRA 2004), New Orleans, LA, April 2004.

Harter, D. (2004). Formation of perceptual patterns in autonomous agents using a discretized K-III model. Paper presented at the 2004 Intentional Dynamic Systems Conference (IDS'04), Memphis, TN, April 2004.

Harter, D., and Kozma, R. (2002). Simulating the principles of chaotic neurodynamics. Paper presented at the 6th World Multi-Conference on Systemics, Cybernetics and Informatics (SCI 2002), Orlando, FL.

Harter, D. (2002). Computational neurodynamics at the University of Memphis. Paper presented at the 4th Annual Memphis Area Engineering and Science Conference (MAESC 2002), Memphis, TN.

Harter, D. (2002).   Chaotic neurodynamics for behaviors in autonomous agents. Poster presented at the 2002 Symposia on the Dynamics of Memory, Perception and Consciousness (DPCM 2002), Memphis, TN.

Harter, D. (2001). Ontogenetic development of skills, strategies and goals for autonomously behaving systems. Paper presented at the 5th World Multi-Conference on Systemics, Cybernetics and Informatics (SCI 2001), Orlando, FL.

Harter, D., and Kozma, R. (2001). Models of ontogenetic development for autonomous adaptive systems. Poster presented at the 23rd Annual Conference of the Cognitive Science Society, Edinburgh, Scotland.

Harter, D., and Kozma, R. (2001). Ontogenetic development of behavior for simple tasks. Paper presented at the Artificial Intelligence and Soft Computing Conference (ASC 2001), Cancun, Mexico.

Harter, D., Kozma, R. and Franklin S. P. (2001). Models of ontogenetic development: The dynamics of learning. Poster presented at the 2001 Learning Workshop, Snowbird, UT.

Harter, D., Kozma, R. and Franklin S. P. (2001).   Ontogenetic development of skills, strategies and goals for autonomously behaving systems. Poster presented at the Fifth International Conference of Cognitive and Neural Systems (CNS2001), Boston, MA.

Graesser, A.C., Person, N., Harter, D., & the Tutoring Research Group (2000, June). Teaching tactics in AutoTutor. Paper presented at the Workshop on Tutorial Dialogue at the Intelligent Tutoring Systems 2000 Conference, Montreal, Canada.

Marineau, J., Wiemer-Hastings, P., Harter, D., Olde, B., Chipman, P., Karnavat, A., Pomeroy, V., Graesser, A.C., and the Tutoring Research Group (2000, June). Classification of speech acts in tutorial dialog. Paper presented at the Workshop on Tutorial Dialogue at the Intelligent Tutoring Systems 2000 Conference, Montreal, Canada.

Person, N., Graesser, A.C., Harter, D., Mathews, E., and the Tutoring Research Group (2000, November). Dialog move generation and conversation management in AutoTutor. Paper presented at the AAAI Fall Symposium 2000 on Building Dialogue Systems for Tutorial Applications, Cape Code, MA.

Person, N., Graesser, A.C., Harter, D., and the Tutoring Research Group (2000, July). The dialog advancer network: A mechanism for improving AutoTutors conversational skills. Paper presented at the Meetings of the Society for Text and Discourse, Lyon, France.

Rajan, S., Harter, D., Graesser, A.C., and the Tutoring Research Group (2000, July). Back channel feedback in human and intelligent tutoring systems. Poster presented at the Meetings of the Society for Text and Discourse, Lyon, France.

Graesser, A. C., Wiemer-Hastings, K., Wiemer-Hastings, P., Harter, D., Person, N., and Kreuz, R. (1999). Latent semantic analysis can reliably evaluate student contributions in AutoTutor. Paper presented at the 40th Annual Meeting of the Psychonomic Society, Los Angeles, California.

Graesser, A.C., Franklin, S. P., and the Tutoring Research Group (1998, July). The goals and design of AutoTutor. Symposium presented at the 8th Annual Meeting of the Society for Text and Discourse, Madison, Wisconsin.

External Grants

Harter, D., Lu, S., Tseng, S. (2006). "Investigating the Formation of Intentionality in Intelligent Systems", Texas Advanced Research Program (ARP) #003565-0002-2006, **$100,000**, **Funded,** 2006-2007.

Harter, D., Lu, S., Saffer, S. (2006). "Self-Organizing Curious Anticipatory Architectures for Robust Intelligence (SCARI)", National Science Foundation (NSF), $450,000.

Harter, D., Saffer, S., Lu, S., (2005). "Cognitive Models of Curiosity for Automatic Object Discovery, Identification, Location and Tracking", L3 Communications Comcept Division Industry Award, **$385,000**, **Funded,** 2005-2008.

Kozma, R., Harter, D., Freeman, W.J., Franklin, S. (2001). "Models of Self-Organizing Ontogenetic Development for Autonomous Adaptive Systems (SODAS)", National Aeronautics and Space Administration (NASA) grant #NCC-2-1244, **$1,000,000**, **Funded,** 2001-2004.

Internal Grants

Harter, D. (2009). "Fractal Self-Organization of Sensory-Motor Systems", Texas A&M University - Commerce Research Enhancement Grant, **$16, 250, Funded,** 2009-2010.

Lu, S., Harter, D. (2008). "An Investigation of Enacting Risky Actions", Texas A&M University - Commerce Research Enhancement Grant, **$11,680, Funded,** 2008.

Lu, S., Harter, D. (2005). "A Computational and Empirical Investigation of Time in Perceiving, Rembering and Describing Events and Actions", Texas A&M University - Commerce Research Enhancement Grant, $**6128, Funded**, 2005.

Harter, D. (2004). "Support Equipment for Embodied Robotics Laboratory", Texas A&M University - Commerce Mini-Grant, **$600, Funded**, 2004.

Awards

2006 Travel Award, $750, NSF Carnegie Mellon University Embodiment Symposium.
2006 Travel Award, $1500, NSF Large Scale Random Graph Workshop.
2004 National Academy of Sciences Research Associateship Awardee, 12 Month NASA/JSC.
2001 Travel Award, $500, NSF Travel Grant Cognitive Science Society.
2001 Travel Award, $750, Cognitive and Neural Systems.

Academic Experience

Reviewer: Prentice Hall Book Reviewer, International Journal of Intelligent Systems (IJIS), International Neural Networks Society (INNS) Newsletter, IEEE Transactions on Neural Networks, Neural Networks, Cognitive Science Conference, International Joint Conference on Neural Networks, Intentional Dynamic Systems Conference, Intelligent Systems Design and Applications Conference.

Organizer: 2010 Lecture Series on HPC @ TAMUC**,** 2006 Northeast Texas INNS/MIND Workshop on Goal-Directed Neural Systems, 2004 Symposium on Intentional Dynamic Systems University of Memphis, 2001 Symposium on the Dynamics of Memory, Perception and Consciousness, University of Memphis.

Professional Memberships: Association of Computing Machinery (ACM), Cognitive Science Society, Institute of Electrical and Electronics Engineers (IEEE), Society of Adaptive Behavior, American Institute of Aeronautics and Astronautics.

Teaching

Instructor:

Texas A&M University - Commerce:

Spring 2010: High Performance Computing

Spring 2010/09/08/07/06: Unix Programming and Networking
Fall 2009/07, Spring 2006: Graduate Artificial Intelligence
Fall 2009/07, Spring 2006: Undergraduate Artificial Intelligence
Fall 2009/08, Spring 2005: Graduate Operating Systems
Fall 2009/08, Spring 2005: Undergraduate Operating Systems
Spring 2009/08: Undergraduate Unix Programming
Spring 2009: Object Oriented Programming
Fall 2008: Fundamentals of Programming Lab
Spring 2008: Unix Network Administration
Spring 2008/07, Fall 2008/07/06: Java Programming
Fall 2008: Microcomputer Applications
Summer 2008/06, Fall 2005/04, Spring 2005: Undergraduate Programming II
Fall 2008/05: Robotics and Autonomous Systems
Spring 2007: Linux and Python Software Development
Spring 2007: Programming Languages
Summer 2008/05, Fall 2004: Data Structures
Spring 2010/09/07, Fall 2009/08, Summer 2009/07: Thesis
Spring 2010/08/07/06/05, Fall 2008/07/06/05/04: Research Literature and Techniques

University of Memphis:
Spring 2004: Expert Systems and Prolog
Summer 2004: Data Structures
Fall 2001: Dynamics of Memory and Cognition

Graduate Advisor:
Pratyush Koturu, MSc, PhD, 2006-present.
Devin Pierce, PhD, 2007-2010.
Chris Jones, MSc, 2009-present.
Gideon Mazambani, MSc, 2008-2009.
Terry Rawlinson, MSc, PhD, 2007-present.
Mei Jiang, Ph.D. 2007-2009.
Lonnie Wakefield, MSc, 2006-2008.
Tom Faulkenberry, Ph.D., 2006-2008.

Postdoctoral Advisor:
Linbao Zhang, postdoctoral associate, 2010-2011.

Mentor:
Over 25 graduate and undergraduate student research projects and honors projects, 2004-present.

Academic Service

2010-present: Computational Sciences Ph.D. Degree Program Development Committee.
2008-present: Computer Science Graduate Curriculum Review Committee.
2008-present: TAMUC Faculty Development Committee.
2010, Spring: TAMUC Graduate Expo, Mesquite Metroplex Center.
2010, Spring: Judge, University Interscholastic League Academic Meet, Computer Science Regional.
2009, Fall: University Days Department of Computer Science organizer and mentor.
2009, Spring: Mentor TAMUC National Cyber Defense Team competition.
2009, Spring: Judge, University Interscholastic League Academic Meet, Computer Science Regional.
2008-2009: Professional Sciences Master's Degree Program Committee.

2008- 2009: College of Arts and Sciences Dean Advisory Search Committee.
2008, Fall: TAMUC University Days Presenter, Computer Science Breakout Session.
2008, Summer: Organizer, X-Teams Summer Academy, Introduction to Programming Concepts using Lego MindStorms.
2008, Spring: Ad Hoc CSIS College of Business Committee.
2008, Spring: Judge, University Interscholastic League Academic Meet, Computer Science Regional.
2007-2008: Computer Science and Information Systems Department Head Search Committee.
2007, Fall: TAMUC Freshman Success Seminar, Computational Sciences: Building Universal Skill Sets for the 21st Century.
2007, Fall: TAMUC University Days Presenter, Computer Science Breakout Session.
2007, Spring: Judge, University Interscholastic League Academic Meet, Computer Science Regional.
2006, Spring: Judge, University Interscholastic League Academic Meet, Computer Science Regional.
2006: Co-Organizer TAMUC Brain, Computation and Mind brown bag seminars
2005, Fall: TAMUC University Days Computer Science Department organizer and mentor
2004-2008: ACM Student Chapter Faculty Advisor
2004-2005: Computer Science ABET Committee
2004-2005: Computer Science Curriculum Committee
2004, Fall: Mesquite Metroplex Center Mentoring Workshop
2004, Fall: TAMUC University Days Computer Science Department organizer and Mentor

Professional References

1. Dr. Robert Kozma, Full Professor, Director
Department of Computer Sciences
Computational Neurodynamics Laboratory
University of Memphis, Memphis TN 38152
(901) 678-2497
rkozma@memphis.edu
http://www.cs.memphis.edu/~rkozma

2. Dr. Carlos A. Bertulani, Full Professor
Department of Physics and Astronomy
Texas A&M University - Commerce
Commerce, TX 75429
(903) 886-5882
Carlos_Bertulani@tamu-commerce.edu
http://faculty.tamu-commerce.edu/cbertulani

3. Dr. Peter Hastings, Associate Professor
Department of Computer Science,
DePaul University
243 S. Wabash Ave, Room 640, Chicago, IL 60604
(312) 362-5736
peterh@cdm.depaul.edu
http://reed.cs.depaul.edu/peterh

4. Dr. Sam Saffer, Full Professor
Department of Computer Science
Texas A&M University, Commerce TX 75429
(903) 886-5401
Sam_Saffer@tamu-commerce.edu
http://cs.tamu-commerce.edu/

5. Dr. Arthur C. Graesser, Full Professor, Director
Department of Psychology
Institute for Intelligent Systems
University of Memphis, Memphis TN 38152
(901) 678-4857
a-graesser@memphis.edu
http://sites.google.com/site/graesserart