

# Scott J. Harmon

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## EDUCATION

- 2012            PhD in Computer Science, Kansas State University.  
2004            MS in Computer Science, Kansas State University.  
2002            BS in Computer Science, Kansas State University (*Magnum Cum Laude and Honors Program*).

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## HONORS & AWARDS

- 2000 – 2002    The Donna Kottwitz and Mark Larson Engineering Scholarship  
1998 – 2002    Dean's List  
2000 – Present   The National Society of Collegiate Scholars  
2000 – Present   Golden Key Honor Society

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## PUBLICATIONS

- **Harmon, S. J.**, PhD Dissertation. *MASSPEC - MultiAgent System Specification through Policy Exploration and Checking*. (2012, May).
- **Harmon, S. J.**, DeLoach, S. A., Robby (2009, September) *Abstract Requirement Analysis in Multiagent System Design*. In The IEEE/WIC/ACM International Conference on Intelligent Agent Technology (IAT 2009).
- **Harmon, S. J.**, DeLoach, S. A., Robby (2009, May) *From Abstract Qualities to Concrete Specification using Guidance Policies*. In The 8th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2009).
- **Harmon, S. J.**, DeLoach, S. A., Robby, Doina Caragea (2008, October) *Leveraging Organizational Guidance Policies with Learning to Self-Tune Multiagent Systems*. In The Second IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2008).
- **Harmon, S. J.**, DeLoach, S. A., Robby (2007, October) *Trace-based Specification of Law and Guidance Policies for Multiagent Systems*. In The Eighth Annual International Workshop "Engineering Societies in the Agents World" (ESAW 2007).
- **Harmon, S. J.**, DeLoach, S. A., Robby (2007, March) *Guidance and Law Policies in Multiagent Systems*. Multiagent & Cooperative Robotics Laboratory Technical Report No. MACR-TR-2007-02. Kansas State University.
- Hsu, W., **Harmon, S. J.**, Rodríguez, E., Zhong, C. (2004, June). *Empirical Comparison of Incremental Reuse Strategies in Genetic Programming for Keep-Away Soccer*. In Late Breaking

Papers of the Genetic and Evolutionary Computation Conference, 2004 (GECCO 2004). Available on CD only.

- **Harmon, S. J.**, Rodríguez, E., Zhong, C., Hsu, W. (2004, June). *A Comparison of Hybrid Incremental Reuse Strategies for Reinforcement Learning in Genetic Programming*. In Proceedings of the Genetic and Evolutionary Computation Conference, 2004 (GECCO 2004). Poster Abstract. Lecture Notes of Computer Science, volume 3103, pp. 706–707.
- **Harmon, S. J.**, Masters Report. *Co-operative Robotics Simulator - Environment Simulator*. (2004, May).

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## TEACHING EXPERIENCE

|                   |                    |  |
|-------------------|--------------------|--|
| 2010, Spring      | Instructor         | Department of Computing & Information Sciences, Kansas State University. <i>Fundamentals of Computer Programming</i> (CIS111).               |
| 2009, Fall        | Lab Instructor     | Department of Computing & Information Sciences, Kansas State University. <i>Software Engineering Project</i> (CIS540/543).                   |
| 2009, Spring      | Teaching Assistant | Department of Computing & Information Sciences, Kansas State University. <i>Software Specification</i> (CIS771).                             |
| 2005, Fall        | Teaching Assistant | Department of Computing & Information Sciences, Kansas State University. <i>Analysis of Algorithms</i> (CIS775).                             |
| 2005, Fall        | Teaching Assistant | Department of Computing & Information Sciences, Kansas State University. <i>Introduction to Algorithm Analysis</i> (CIS575).                 |
| 2005, Spring      | Teaching Assistant | Department of Computing & Information Sciences, Kansas State University. <i>Software Specification</i> (CIS771).                             |
| 2004, Fall        | Teaching Assistant | Department of Computing & Information Sciences, Kansas State University. <i>Analysis of Algorithms</i> (CIS775).                             |
| 2004, Spring      | Teaching Assistant | Department of Computing & Information Sciences, Kansas State University. <i>Operating System Practices</i> (CIS722).                         |
| 2004, Spring      | Co-Instructor      | Department of Computing & Information Sciences, Kansas State University. <i>Computer Architecture and Organization</i> (CIS450).             |
| 2002 – 2003, Fall | Lab Instructor     | Department of Computing & Information Sciences, Kansas State University. <i>Fundamentals of Software Design and Implementation</i> (CIS200). |
| 2002, Spring      | Teaching Assistant | Department of Computing & Information Sciences, Kansas State University. <i>Operating System Practices</i> (CIS722).                         |

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## CAREER HIGHLIGHTS

### Academic

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|-----------------------------|--------------------|--|
| 2006 – 2009                 | Research Assistant | <i>Predictable &amp; Reliable Multiagent Systems (PRiMO). Multiagent &amp; Cooperative Robotics (MACR) Laboratory.</i> Kansas State University. (S. A. DeLoach). |
| 2002 – 2005,<br>2009 – 2010 | Teaching Assistant | Department of Computing & Information Sciences, Kansas State University. (V. Wallentine).  |

### Industry

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|----------------|------------------------------------|---|
| 2010 - Present | Director of Information Technology | <i>The Onyx Collection, Inc.</i> (a medium size manufacturing company), Belvue, Kansas.       |
| 1995 – 2010    | Research & Development             | <i>The Onyx Collection, Inc.</i> (a medium size manufacturing company), Belvue, Kansas.       |
| 1996 – 1998    | Partner/ 50% Owner                 | <i>Quality Computer Services</i> (a computer service and consulting firm), St. Marys, Kansas. |

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## INTERESTS

- **Artificial Intelligence:** Machine Learning, Reinforcement Learning, Genetic Programming, Genetic Algorithms, Classifier Systems, Multiagent Systems.
- **Program Verification And Specification:** Static Analysis, Model Checking, Modular Analysis, Concurrency.

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## PROFESSIONAL SERVICE

- Program Committee in Workshop on Coordination, Organization, Institutions and Norms (COIN), 2009.
- Technical panelist in Information and Cyberspace Symposium, Fort Leavenworth, KS. September 22-25, 2008.
- Program Committee in Workshop on Coordination, Organization, Institutions and Norms (COIN), 2008.

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## PROFESSIONAL AFFILIATIONS

- Member, Association for Computing Machinery (ACM).