

Curriculum Vitae

Name:

John W. Coffey
Associate Professor, Department of Computer Science and
Research Scientist, Florida Institute for Human and Machine Cognition

Office Address:

Computer Science Department
College of Arts and Sciences
The University of West Florida
Building 4, Room 434
Pensacola, FL, 32514

Telephone Number: 850-474-3183
E-mail Address: jcoffey@uwf.edu
Web Site <http://www.cs.uwf.edu/~jcoffey>

Educational Background:

The University of West Florida.
Ed.D. Curriculum and Instruction/Computer Science Specialization
August, 2000.
M.S. Computer Science/Software Engineering,
April, 1992.
B.S. Systems Science,
December, 1989.
The College of William and Mary.
B.S. Psychology, June, 1971.

Employment History

The Department of Computer Science, University of West Florida

- Associate Professor (2005 - present)
- Assistant Professor (2001 - 2004)
- Lecturer (1995-2000)
- Visiting Instructor (1992 – 1994)

Teaching Assignments

1. **Programming Languages** - a core course in the CIS and CS options. Survey of procedural, object-oriented, functional and logic-based programming languages. Formal language theory including the Chomsky hierarchy, BNF, stack and heap memory management, parameter passing modes, etc.
2. **Advanced Programming Languages** - a graduate programming languages course. Program translation: lexical, syntactic and semantic analysis of programs, LL(K) and LR(K) parse algorithms, pumping lemmas for regular and context-free grammars, intermediate representations and code generation, code optimization, abstract grammars, translational, operational, denotational and axiomatic semantics.
3. **Graduate Project:** the capstone project for CS/SE Master's students. Large-scale project conceptualization, design, implementation and documentation.

4. **Data Structures and Algorithms II** – a new Senior-level course in 2008 for CS/ CS option majors. Analysis of algorithms, solution of recurrences, substitution method and Master Theorem, counting principles, heaps and priority queues, graph algorithms, greedy algorithms, probability distributions, and dynamic programming.
5. **Distributed Software Architecture II** – a new course in 2009 for CS/CS majors on Web applications including client and server-side processing, XML, XSLT, XML Schema, Document Object Model, Javascript, php, AJAX, MySQL, SOAP, WSDL, BPEL and service-oriented architecture.
6. **Network-Centric Software Applications** – offered concurrently with Distributed Software Architecture II. For CIS majors.
7. **Web-Enabled Applications.** an upper-level elective in XML, Document Object Models, Ajax, client versus server-side scripting. Additional topics include CSS, XSLT, DOM and SAX parsing, and php.
8. **Service Oriented Architecture Seminar** - a seminar in Web services and SOA. The course deals with topics including BPEL, Ajax/Dojo, distributed database, service interoperability, service semantics and others.
9. **Advanced Computer Programming** - a new advanced Java programming course for the CIS option: Data Structures, Threads, Generics, XML, Web Applications, client-server programming.
10. **Intermediate Programming** - a required course for CS, CIS and other majors. A continuation of Introduction to Java featuring ArrayLists and arrays, Interfaces, file I/O, exceptions, inheritance, and GUI (graphical user interface) development.
11. **Software Engineering** - a core course in the CIS and CS options. This course focuses on issues pertaining to the analysis, design and implementation of large software systems requiring co-ordination among team members.
12. **Science of Computing** - an introductory core course for CIS and CS options. At the time this course was the first on campus that utilized authoring tools to create instructional materials that made extensive use of graphics, and animations.
13. **Data Structures** – a core course for CIS and CS options and for two of the five IIT options. Basic data structures including arrays, vectors, linked lists, trees, graphs, searching and sorting algorithms, hashing and heaps.
14. **Java Programming** – a prerequisite course for CIS, CS, IIT options of Computer Science and a core course in various other majors. Basic programming in Java. Utilizes an "objects early" approach.
15. **Introduction to CIS** - a required course for CIS, CS, and IIT options and for ECE students. An intermediate course in C++ programming.
16. **Exploring the Internet** - an online course that utilizes the Internet to teach about using the Internet. Over a 2 year period, administered delivery of the course to 1800 students.
17. **C++ Programming** - an introductory course in C++ taken by majors and non-majors. Basic control constructs, file IO and arrays.
18. **UNIX and C** - an upper level elective that required C programming, basic UNIX operating system use, scripting and system calls.
19. **Pascal Programming** – an introductory course in the Pascal programming language. Previously a required prerequisite for the CIS and CS options.

Research/Creative Activities

Refereed Journal Publications

- Coffey, J.W. (2010). Web Conferencing Software in University-Level, E-Learning-Based, Technical Courses. *Journal of Educational Technology Systems*. 38(3). pp 367-381.
- Coffey, J.W. & Eskridge, T. (2008). Case Studies of Knowledge Modeling for Knowledge Preservation and Sharing in the U.S. Nuclear Power Industry. *Journal of Information and Knowledge Management*. 7(3). pp 173-185.
- Coffey, J.W. (2008). MODELER: A virtual constructivist learning environment and methodology for object-oriented design. *Journal of Computers in Mathematics and Science Teaching*. 27(2). pp. 129-147.
- Coffey, J.W., (2008). Digital Natives, Online Learning, and the Production of Capable Computer Science Graduates: The Case for Virtual Synchronous Learning Activities. *The International Journal of Technology, Knowledge, and Society*. 4(4). pp. 59-64.
- Prayaga, L. and Coffey, J.W. (2008). Game Development and Higher Order Thinking Skills. *Journal of Educational Technology*. 5(3). pp. 40-48.
- El-Sheikh, E.M., Coffey, J.W., & White, L.J. (2008). Exploring Technologies, Materials, and Methods for an Online Foundational Programming Course. *Informatics in Education Journal*. 7(2). pp. 259-276.
- Coffey, J.W. (2007). A meta-cognitive tool for courseware development, maintenance, and reuse. *Computers and Education*. 48. pp. 548-566.
- Coffey, J.W., Hoffman, R.R., & Cañas, A.J. (2006). Concept Map-based Knowledge Modeling: Perspectives from Information and Knowledge Visualization. *Information Visualization*. 5(3). pp. 192-201.
- Hoffman, R.R., Coffey, J.W., Ford, K.M., & Novak, J.D. (2006). A method for eliciting, preserving, and sharing the knowledge of forecasters. *Weather and Forecasting*. 21(3). pp. 416-428.
- Coffey, J.W. (2004). Facilitating Idea Generation and Decision-Making with Concept Maps. *Journal of Information and Knowledge Management*. 3(2). pp. 1-14.
- Coffey, J.W. & Cañas, A.J. (2003). LEO: A Learning Environment Organizer to support computer mediated instruction. *Journal of Educational Technology Systems*. 31(3). pp. 275-290.
- Coffey, J.W., Cañas, A.J., Reichherzer T., Hill G., Suri N., Carff, R., Mitrovich, T., & Eberle, D. (2003). Knowledge Modeling and the Creation of El-Tech: A Performance Support and Training System for Electronic Technicians. *Expert Systems with Applications*. 25(4). pp. 483-492.
- Coffey, J.W. & Hoffman, R.R. (2003). Knowledge modeling for the preservation of institutional memory, *Journal of Knowledge Management*. 7(3). pp. 38-49.
- Cañas, A.J., Ford, K.M., Coffey, J.W., Reichherzer, T., Suri, N., Carff, R., Shamma, D., Hill, G., Breedy, M. (2000). Herramientas para Construir y Compartir Modelos de Conocimiento Basados en Mapas Conceptuales, *Revista de Informática Educativa*. 13(2). pp. 145-158.
- Ford, K.M., Coffey, J.W., Cañas, A.J., Turner, C.W., & Andrews, E.J. (1996). Diagnosis and Explanation by a Nuclear Cardiology Expert System. *International Journal of Expert Systems*. 9(4). pp. 499-506.

Invited Book Chapters

- Coffey, J.W., Hoffman, R.R., & Novak, J.D. (2010). Applications of Concept Maps to Web design and Web work. In R. W. Proctor & K.-P. L. Vu (Eds.), *Handbook of Human Factors in Web Design*, 2nd Edition. Mahwah, NJ: Erlbaum. (to appear)
- Coffey, J.W. (2004). LEO: A Concept Map-Based Course Visualization Tool for Instructors and Students. *Lecture Notes in Computer Science (LNCS 3426)*, Olaf-Tergan, S. and Keller, T. (Eds.), pp. 285-301. Berlin: Springer Verlag.
- Hoffman, R.R., Coffey, J.W., Novak, J.D., & Cañas, A.J. (2005). Applications of Concept Maps to Web design and Web work. In R. W. Proctor & K.-P. L. Vu (Eds.), *Handbook of Human Factors in Web Design*. pp. 157-175. Mahwah, NJ: Erlbaum.

Refereed Book Chapters

- Coffey, J.W. (2006). Integrating Visual Representations of Knowledge with Learning Management Systems: Design Principles for Advanced Computer-Based Distance Learning Support. In Mendes, M., & Vilar, F. (Eds.), *Advances in Computer-Supported Learning*. Hershey, PA: Idea Group Publishing. pp. 21-44.

Refereed Conference Proceedings

- Coffey, J.W., Wilde, N., Simmons, S., Pinto, A., & Daniels, E. (2010). Creating a Technically-oriented Course in Web Services and SOA: Successes, Failures, and Lessons Learned. *Proceedings of FECS'10 - The 2010 International Conference on Frontiers in Education: Computer Science and Computer Engineering July, 2010, Las Vegas, NV*. pp. 150-155.
- Wilde, N., Coffey, J.W., Simmons, S., Pinto, A., & Daniels, E. (2010) "Supporting Information Systems Education with an Open SOA Laboratory", *Proceedings IADIS International Conference Information Systems*, ISBN: 978-972-8939-09-0, March 2010, Porto Portugal, pp. 503-506.
- Just, J., & Coffey, J.W. (2009). A Survey and Assessment of Attack Strategies on the RSA Public-Key Cryptosystem. *Proceedings of RMCi 2009, The 6th International Symposium on Risk Management and Cyber-Informatics*.
- Coffey, J.W. (2008). Impediments to Knowledge Communication by Senior Professionals: A Case Study. *Proceedings of the Third International Conference on Knowledge Generation, Communication and Management, KGCM 2008*. Orlando, FL, June 29 - July 2 2008.
- El-Sheikh, E.M., Coffey, J.W., & White, L.J. (2008). Exploring the Use of Virtual Synchronous Sessions in an Online Foundational Programming Course. *Proceedings of the 2008 International Conference on Frontiers in Education: Computer Science and Computer Engineering*. July 17-19, 2008. Las Vegas, NV. pp. 395-399.
- Moon, B.M., Hoffman, R.R., Shattuck, L.G., Coffey, J.W., Goodman, P., Linn, R., Lang, J., & Sullivan, M. (2008). Rapid and accurate idea transfer: Evaluating concept maps against other formats for the transfer of complex information. *Proceedings of CMC 2008, the Third International Conference on Concept Mapping, Tallinn, Estonia & Helsinki, Finland, Sept. 22-25, 2008*. pp 571-578.

- Coffey, J.W., (2008). A Case study in Organizing and Presenting a Course with Concept Maps and Knowledge Models. Proceedings of CMC 2008, the Third International Conference on Concept Mapping, Tallinn, Estonia & Helsinki, Finland, Sept. 22-25, 2008. pp 1-8.
- Coffey, J.W. (2007). A Study of the Use of Concept Maps and Knowledge Models to Organize and Communicate a Complex Technical Knowledge Domain. Proceedings of EARLI2007, The 12th Biennial Meeting of the European Association for Research on Learning and Instruction. Budapest, Hungary, August 23-27, 2007.
- El-Sheikh, E. White, L.J., & Coffey, J.W. (2007). Reflections in Uncharted Waters: Teaching Foundational Programming Online. Proceedings of EISTA 2007, The Fifth International Conference on Education and Information Systems, Technologies and Applications. Orlando, FL July 12-15, 2007. pp. 310-314.
- Coffey, J.W. (2007). Barriers to Open-Source Software Migration: A Case Study from Higher Education. Proceedings of the 11th World MultiConference on Systemics, Cybernetics and Informatics. (SCI2007), July 11-13, 2005, Orlando, FL. pp. 155-158.
- Coffey, J.W. (2006). In the Heat of the Moment . . . Strategies, Tactics, and Lessons Learned regarding Interactive Knowledge Modeling with Concept Maps. Proceedings of the Second International Conference on Concept Mapping, (CMC2006), Sept 14-17, 2004, San Jose, Costa Rica. pp. 263-271.
- Keller, T., Tergan, S.-O., & Coffey, J.W. (2006). Concept Maps used as a "Knowledge and Information Awareness" tool for supporting collaborative problem solving in distributed groups. Proceedings of the Second International Conference on Concept Mapping, (CMC2006), Sept 14-17, 2004, San Jose, Costa Rica. pp. 128-135.
- Coffey, J.W. (2006). Getting the Big Picture: Visual Advance Organizers in Computer Science Course Presentation, Proceedings of Ed-Media 2006, World Conference on Educational Multimedia, Hypermedia, and Telecommunications, June 26-30, Orlando, FL. pp. 1785-1791.
- Zimmerman, T. & Coffey, J.W. (2006). Altering Genetic Algorithm Parameters for the Traveling Salesman Problem: An Empirical Study. Undergraduate Student Workshop and Proceedings of GECCO 2006, The 15th ACM International Conference on Genetic Algorithms, July 8-12, Seattle, Washington.
- Coffey, J.W. (2005). On the Use of Visual Models of Knowledge and Information in a Technical Course. Proceedings of EARLI2005, The 11th Biennial Meeting of the European Association for Research on Learning and Instruction. Nicosia, Cyprus, August 23-27, 2005.
- Coffey, J.W., & Eskridge, T. (2005). Knowledge Acquisition and Modeling in a Technical Knowledge Domain. Proceedings of the 9th World MultiConference on Systemics, Cybernetics and Informatics. (SCI2005), July 11-13, 2005, Orlando, FL.
- Coffey, J.W., Eskridge, T.C., & Sanchez, D.P., (2004). A Case Study in Knowledge Elicitation for Institutional Memory Preservation using Concept Maps. Proceedings of the First International Conference on Concept Mapping, (CMC2004), Sept 14-17, 2004, Pamplona, Spain. pp. 151-157.
- Coffey, J.W. (2004). Concept Map-based Knowledge Modeling. Proceedings of the 8th World MultiConference on Systemics, Cybernetics and Informatics. (SCI2004), pp. 361-365. July 18-21, 2004, Orlando, FL.
- Hoffman, R.R., & Coffey, J.W. (2004). Human Centered Computing: Human factors design principles manifested in a study of weather forecasters. In Proceedings of the 48th Annual Meeting of the Human Factors and Ergonomics Society. New Orleans, Louisiana, September 20-24, 2004, Santa Monica, CA: Human Factors and Ergonomics Society.

- Coffey, J.W., & Koonce, R. (2004). MODELeR: Multimedia Object Design Learning Resource. Proceedings of SIGCSE'04, The ACM Special Interest Group on Computer Science Education. March 3-7, 2004, Norfolk, VA. pp. 472-476.
- Coffey, J.W., & Carnot, M.J. (2003). Graphical depictions for knowledge generation and sharing. Proceedings of IKS2003, IASTED International Conference on Information and Knowledge Sharing. Scottsdale, AZ, Nov 17-19. pp. 18-23.
- Coffey, J.W., Cañas, A.J., Novak, J.D., Hoffman, R.R., Carnot, M.J., & Jost, A. (2003). Facilitating the Creation of Graphical Knowledge Representations for Brainstorming and Decision Support. Proceedings of the 7th World MultiConference on Systemics, Cybernetics and Informatics. (SCI2003), July 27-30, 2003, Orlando, FL. pp. 198-202.
- Coffey, J.W., Canas, A.J., (2003). An Internet-based Meta-cognitive Tool for Courseware Development. Proceedings of E-Learn 2003, World Conference on E-Learning in Corporate, Government, Healthcare and Higher Education. Phoenix, Arizona, USA. Nov. 7-11, 2003.
- Coffey, J.W. & Webb, M. (2002). AMEE: Annotated, Multi-modal Electronic Evaluation for Dynamic Student Modeling. Proceedings of E-Learn 2002, World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education, Montreal, Canada October 19-23, 2002.
- Coffey, J.W., Hoffman, R.R., Cañas, A.J., & Ford, K.M. (2002). A Concept Map-Based Knowledge Modeling Approach to Expert Knowledge Sharing. Proceedings of IKS2002, IASTED International Conference on Information and Knowledge Sharing. St. Johns, Virgin Islands, Nov 6-8, 2002. pp. 212-217.
- Hoffman, R.R., Coffey, J.W., Hayes, P.J., Cañas, A.J., Ford, K.M., & Carnot, M.J. (2002). One small step for a diagram, one giant leap for meaning. Diagrammatic Representation and Inference. Second International Conference, Diagrams, 2002, Callaway Gardens, GA, USA, April 18-20, 2002 Springer Verlag.
- Coffey, J.W. (2002). A knowledge-based instructional assistant to accompany LEO: A learning environment organizer. Proceedings of the Fifteenth Florida AI Research Symposium (FLAIRS '02), Pensacola Beach, FL. pp. 289-293.
- Coffey, J.W. (2002). An Ontology-Guided Approach to Content Adaptation in LEO: A learning environment organizer. Lecture Notes in Computer Science, vol. 2347: De Bra, P.; Brusilovsky, P.; Conejo, R., (Eds.), Springer-Verlag. pp. 380-383.
- Hoffman, R. R., Coffey, J.W., Ford, K.M., & Carnot, M.J. (2001). STORM-LK: A human-centered knowledge model for weather forecasting. Proceedings of the 45th Annual Meeting of the Human Factors and Ergonomics Society. October 8-12, 2001, Minneapolis, MN.
- Coffey, J.W., & Cañas, A.J. (2001). Tools to foster course and content reuse in online instructional systems. Proceedings of WebNet 2001: World Conference on the WWW and Internet. Oct 23-27, 2001. Orlando, FL. pp. 207-213.
- Coffey, J.W., & Cañas, A.J. (2001). An Advance Organizer Approach to Distance Learning Course Presentation. Proceedings of the Nineteenth International Conference on Technology and Education. May 2 - 5, 2001. Tallahassee, FL.
- Hewett R. & Coffey, J.W. (2000). XProM: A Collaborative Knowledge-based Project Management Tool. Lecture Notes in Artificial Intelligence vol. 1821. Loganantharaj, R., Palm, G., & Ali, M., (Eds.) Springer-Verlag. pp. 406-413.

- Coffey, J.W. & Cañas, A.J. (2000). A Learning Environment Organizer for Asynchronous Distance Learning Systems. Proceedings of the Twelfth IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2000). November 6-9, 2000. Las Vegas, Nevada. pp. 563-568.
- Cañas, A.J., Ford, K.M., Coffey, J.W., Reichherzer, T., Suri, N., Carff, R., Shamma, D., Hill, G., Hollinger, M., Mitrovich, T. (1999). Herramientas para Construir y Compartir Modelos de Conocimiento, Memoria de WISE '99 Workshop Internacional sobre Educação Virtual, Fortaleza, Brasil (November), pp. 383-392.
- Cañas, A.J., Coffey, J.W., Reichherzer, T., Hill, G., Suri, N., Carff, R., Mitrovich, T., & Eberle, D. (1998). El-Tech: A Performance Support System with Embedded Training for Electronics Technicians. Proceedings of the Eleventh Florida AI Research Symposium (FLAIRS '98), Sanibel Island, FL. pp. 79-83.
- Cañas, A.J., Ford, K.M., Hayes, P.H., Reichherzer, T., Suri, N., Coffey, J.W. Carff, R., G. Hill, G., (1997), Colaboracion en la Construcción de Conocimiento Mediante Mapas Conceptuales, Invited Plenary Talk, VIII Congreso Internacional sobre Tecnología y Educación a Distancia, San José, Costa Rica. Available in the Proceedings of the Conference, pp. XXV- XLII.
- Coffey, J.W. (1995). Issues in Hypermedia and Participatory Explanation. Proceedings of the Eighth Florida AI Research Symposium (FLAIRS '95), Melbourne, FL, 1995. pp. 223-227.
- Cañas, A.J., Brennan, J., Hill, G., Coffey, J.W., Carff, R., & Suri, N. (1995) Quorum: A Collaborative Network for Latin American Schools. Proceedings of the Twelfth International Conference on Technology and Education. Orlando FL.
- Coffey, J.W. (1994). A Computationally Efficient Rule Evaluation Method from Compiled Knowledge Bases. Proceedings of the Seventh Florida AI Research Symposium (FLAIRS '94), Pensacola Beach, FL, May, 1994. pp. 31-35.
- Ford, K.M., Cañas, A.J., & Coffey, J.W. (1993). Participatory Explanation. Proceedings of the Sixth Florida AI Research Symposium (FLAIRS '93), Ft. Lauderdale, FL, April, 1993. pp. 111-115.
- Ford, K.M., Cañas, A.J., Coffey, J.W., Andrews, E.J., & Schad, N. (1991). Interpreting Functional Images with NUCES: Nuclear Cardiology Expert System. Proceedings of the Fifth Florida AI Research Symposium (FLAIRS '92), Ft. Lauderdale, FL, April, 1992. pp. 85-90.
- Ford, K.M., Cañas, A.J., Coffey J.W., & Andrews, E.J. (1991). NUCES: Nuclear Cardiology Expert System: A Preliminary Report. Fourth International Conference on Industrial & Engineering Applications of Artificial Intelligence and Expert Systems, Kauai, Hawaii. Pp. 547-556.

Technical Reports

- Coffey, J.W., White, L., Simmons, S., & Wilde, N. (2010). Locating Software Features in a SOA Composite Application. S²ERC-TR-304. Software Engineering Research Institute.
- Wilde, N., Coffey, J.W., Daniels, E., Simmons, S., & Pinto, A. (2009). Static Support for Understanding SOA Descriptions: Exploring the Requirements. S²ERC-TR-303. Software Engineering Research Institute.
- ITPAC Project Prioritization Subcommittee (2009). IT Project Prioritization Proposal. Presented to the Information Technology Planning and Advisory Committee (ITPAC), University of West Florida, Sept 24, 2009.
- Wilde, N., Coffey, J.W., Daniels, E., Simmons, S., & Pinto, A. (2009). The SOA Laboratory: a Resource for Education and Research. SERC-TR-297. Software Engineering Research Institute.
- Hoffman, R.R., and Coffey, J.W. (2008). Knowledge Elicitation Workshops in Support of the Commanders' Predictive Environment. A Technical Report prepared for the Commander's Predictive Environment group of the Air Force Research Laboratory, Wright-Patterson AFB, OH.
- Hoffman, R.R., and Coffey, J.W. (2007). Procedural Guide on Eliciting and Representing Practitioner Knowledge. SCS HR Concept Mapping for Gulf Power. Pensacola, FL.
- Academic Program Review. (2006). Department of Computer Science, Five Year Program Review. Division of Academic Affairs, The University of West Florida, Pensacola, FL.
- Coffey, J.W., Boling, C., Guidrey, K, Harrison, W., Howell, C., Platt, R., & Redding, C. (2005). Report of the Open Source Software Committee to the University Planning Council for Information Technology. The University of West Florida, Pensacola, FL.
- Coffey, J.W. & Eskridge, T.C. (2004). A Knowledge Retention Pilot Study in the Nuclear Power Industry: Activities, Achievements, and Challenges. Technical Report to the Electrical Power Research Institute (EPRI), Palo Alto, CA.
- Coffey, J.W., Carnot, M.J., Feltovich, P., Feltovich, J., Hoffman, R.R., Cañas, A.J., & Novak, J.D. (2003). A Summary of Literature Pertaining to the Use of Concept Mapping Techniques and Technologies for Education and Performance Support. Technical Report submitted to the CNET, Pensacola, FL.
- Hoffman, R.R., Ford, K.M., & Coffey, J.W., (2000) The Handbook for Human-Centered Computing. Technical Report, NIMA. Washington D.C.
- Hoffman, R.R., Coffey, J.W., & Ford, K.M. (2000). A Case Study in the Research Paradigm of Human-Centered Computing: Local Expertise in Weather Forecasting. Report to the National Technology Alliance, Arlington VA. Dec. 15, 2000.
- Coffey, J.W. (1999). Institutional Memory Preservation at NASA Glenn Research Center. Technical report, Glenn Research Center, Cleveland, OH.
- Ford, K.M., Cañas, A.J., Coffey, J.W., Andrews, E.J., and Schad, N. (1992). Interpreting Functional Images with NUCES: Nuclear Cardiology Expert System. Institute for Human and machine Cognition, 11000 University Pkwy, Pensacola, FL 32514.

Posters

- Just, J., & Coffey, J.W. (2008). A Study of Possible Attack Strategies on the RSA Public-Key Cryptosystem. SEASTARS 2008. School of Science and Engineering, University of West Florida, Pensacola, FL April 14, 2008.
- Coffey, J.W. (2005). Categories of inference in a multi-faceted, educational, knowledge-based recommender system. A Poster presented at FLAIRS'05, The Eighteenth Florida AI Research Symposium (FLAIRS '05). Clearwater Beach, Florida, May 15-17, 2005.
- Hoffman, R.R., Coffey, J.W., & Carnot, M.J. (2000 Nov). Is there a "fast track" into the black box?: The cognitive models procedure. Poster presented at the 41st annual meeting of the Psychometrics Society, New Orleans, LA.
- Hoffman, R.R., Coffey, J.W., & Carnot, M.J. (2001, February). The Cognitive Styles of Expert Weather Forecasters. Paper presented in the symposium on Human Factors Psychology at the annual meeting of the South Eastern Psychological Association, Atlanta, GA.
- Hoffman, R.R., & Coffey, J.W. (2000). The cognitive styles of expert weather forecasters. Poster presented at the convention of the American Psychological Society, Miami, FL.
- Cañas, A.J., Ford, K.M., & Coffey, J.W. (1994). Concept Maps as a Hypermedia Navigational Tool. A session presented at FLAIRS-94, the Florida AI Research Symposium, Pensacola Beach, FL, May 6, 1994.

Presentations

- Coffey, J.W. (2007). Knowledge Modeling for Decision Support in a Medical Application. Cogon Systems, December 11, 2007.
- Coffey, J.W. (2007). First Experiences with Elluminate. Presented at The Elluminate, Users Conference, The University of West Florida.
- Just, J., & Coffey, J.W. (2008) A Study of Possible Attack Strategies on the RSA Public-Key Cryptosystem. SEASTARS 2008. School of Science and Engineering, University of West Florida, Pensacola, FL., April 14, 2008.
- Coffey, J.W. (2007). CmapTools: A Concept Map-based, Knowledge Modeling Toolkit. Digital and Learning Technology Programs, John C. Pace Library, University of West Florida. 4/6/2007.
- Coffey, J.W. (2007). Knowledge Modeling with CmapTools: Technologies and Methods Presentation to the Director, Review and Assessment Program, NASA Safety and Assurance Office, NASA Headquarters, Washington DC August 8, 2006.
- Hoffman, R.R., & Coffey, J.W. (2007). "Knowledge Modeling with Concept Maps at Gulf Power, Preliminary Results." presentation to the General Manager for Power Delivery and staff, Gulf Power Company, Pensacola, FL 12/11/2006.
- Coffey, J.W. (2006). Getting the Big Picture: Visual Advance Organizers in Computer Science Course Presentation, Ed-Media 2006, World Conference on Educational Multimedia, Hypermedia, and Telecommunications, June 28, Orlando, FL.
- Coffey, J.W. (2005). On the use of visual models of knowledge and information in a technical course. (Virtual Presentation) European Association of Research on Learning and Instruction, Nicosia, Cyprus. August, 2005.
- Novak, J.D., & Coffey, J.W. (2005). Educational Uses of CmapTools. Dolan DNA Learning Center, C2G Advisory Panel Meeting, Cold Spring Harbor, New York. March 10-11, 2005.

- Coffey, J.W. (2005). LEO, AMEE and CMapTools: A Next-Generation Learning Environment. Presentation to a representative of one of the nation's Intelligence agencies. IHMC, Pensacola, FL, December 7, 2005.
- Coffey, J.W. (2004). A Case Study in Knowledge Elicitation for Institutional Memory Preservation using Concept Mapping. Presented at the First International Conference on Concept Mapping, CMC 2004. Pamplona, Spain. September 14, 2004.
- Coffey, J.W., Sanchez, D.P., Roche, J., & Woosley, A. (2004). TVAN Knowledge Retention Program Using Concept Mapping Tools. Presentation to the Chief Nuclear Officer and others, Tennessee Valley Authority, Chattanooga, TN. August 18, 2004.
- Coffey, J.W., (2004). Concept Map-based Knowledge Modeling. A Presentation at the 8th World MultiConference on Systemics, Cybernetics and Informatics. (SCI2004), Orlando, FL, July 18-21, 2004.
- Coffey, J.W. (2004). LEO: A Concept Map-based Course Visualization Tool for Instructors and Students. A Presentation at the International Workshop on Visual Artifacts for the Organization of Information and Knowledge, Tübingen, Germany, May 13-14, 2004.
- Coffey, J.W., & Koonce, R. (2004). MODeLeR: Multimedia Object Design Learning Resource. Proceedings of SIGCSE'04, The ACM Special Interest Group on Computer Science Education. March 3-7, 2004, Norfolk, VA.
- Hoffman, R.R., Coffey, J.W., (2004). Varieties of knowledge elicitation experiences: A knowledge engineer's perspective. Presentation in the Seminar on Expertise (N. Charness, Instructor), Department of Psychology, Florida State University, Tallahassee, FL. March 2004.
- Coffey, J.W., & Carnot, M.J. (2003). Graphical depictions for knowledge generation and sharing. Proceedings of IKS2003, IASTED International Conference on Information and Knowledge Sharing. Scottsdale, AZ, Nov 17-19.
- Coffey, J.W. (2003). Knowledge Modeling with IHMC's CmapTools. Presentation to Southern Company, Birmingham, AL., and Gulf Power, Pensacola, FL.
- Coffey, J.W., Cañas, A.J., Novak, J.D., Hoffman, R.R., Carnot, M.J., & Jost, A. (2003). Facilitating the Creation of Graphical Knowledge Representations for Brainstorming and Decision Support. Proceedings of the 7th World MultiConference on Systemics, Cybernetics and Informatics. (SCI2003), July 27-30, 2003, Orlando, FL.
- Coffey, J.W., & Chernacov, G. (2003). Knowledge Modeling with IHMC's CmapTools. A Presentation to the Plant manager and training director of Brown's Ferry Nuclear Power Plant, Decatur, AL. June, 25.
- Coffey, J.W. (2003). LEO: A Learning Environment Organizer for the Presentation of Knowledge Models as Courses, EPRI Workshops, IHMC, Pensacola, FL, May 7-9.
- Hoffman, R.R., Coffey, J.W., Novak, J.D., & Carnot, M.J. (2003). Human Centered Computing: Human Factors in Creating Decision Aids for Battlespace Weather. Presented at the Conference on Battlespace Atmospheric and Cloud Impacts on Military Operations (BACIMO). Sponsored by the Naval Research Laboratory. September 9, 2003, Monterey CA.
- Coffey, J.W. (2002, November). LEO: A Learning Environment Organizer for the Presentation of Knowledge Models as Courses, EPRI Workshop, IHMC, Pensacola, FL.
- Coffey, J.W. (2002). Eliciting, Preserving, and Sharing Expert Knowledge, CNET Workshops, IHMC, Pensacola, FL.

- Coffey, J.W. (2002). AMEE: Annotated, Multi-modal Electronic Evaluation for Dynamic Student Modeling. A Presentation at E-Learn 2002, World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education, Montreal, Canada October 19-23, 2002.
- Coffey, J.W. (2002). A Concept Map-Based Knowledge Modeling Approach to Expert Knowledge Sharing. A Presentation at IKS2002, IASTED International Conference on Information and Knowledge Sharing. St. Johns Virgin Islands, Nov 6 - 8.
- Coffey, J.W. (2002). An Ontology-Guided Approach to Content Adaptation in LEO: A learning environment organizer. A Presentation at the Second International Conference on Adaptive Hypermedia and Adaptive Web-based Systems, Malaga, Spain, May, 27 - 29.
- Coffey, J. W. (2002). A knowledge-based instructional assistant to accompany LEO: A learning environment organizer. A Presentation at the Fifteenth Florida AI Research Symposium (FLAIRS '02), Pensacola Beach, FL.
- Hoffman, R.R., & Coffey, J.W. (2001) STORM-LK, Details withheld at request of sponsoring agency, Pensacola, FL.
- Coffey, J.W. (2001). An Advance Organizer Approach to Distance Learning Course Presentation. A Presentation at the Fifteenth International Conference on Technology and Education. May 2 - 5, 2001. Tallahassee, FL.
- Hoffman, R.R., & Coffey, J.W. (2001) STORM-LK, A Presentation at the Navy Professional Development Center, Gulfport, MS.
- Hoffman, R.R., Coffey, J.W., Ford, K.M., & Carnot, M.J. (2001). STORM-LK: A Human-Centered Knowledge Model For Weather Forecasting. Presentation at the Second Workshop on Interactive Meteorology and Oceanography, North Island Naval Air Station, California, on August 29 - 31.
- Hoffman, R.R., & Coffey, J.W. (2000) STORM-LK, A Presentation to the National Technology Alliance, Washington, D.C.
- Coffey, J.W. (2000). A Learning Environment Organizer for Asynchronous Distance Learning Systems. A Presentation at the Twelfth IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS 2000). November 6-9, 2000. Las Vegas, Nevada.
- Coffey, J.W. (1999). Knowledge-based Systems, Seminar for Outstanding Science Students, University of West Florida, February 25.
- Canas, A.J., & Coffey, J.W. (1998). El-Tech Performance support with embedded training for electronics Technicians. Presentation to the Chief of Naval Education and Training, NAS Pensacola, FL.
- Coffey, J.W. (1998). Details withheld at request of sponsoring agency, Washington D.C.
- Coffey, J.W. (1998). Multimedia Performance Support Systems, Seaside, FL.
- Coffey, J.W. (1995). Differences between a method of representing knowledge and a patent for Nexpert Object. Presentation at the Office of Patents and Trademarks, Arlington, VA.
- Coffey, J.W. (1995). Issues in Hypermedia and Participatory Explanation. A Presentation at the Eighth Florida AI Research Symposium (FLAIRS '95), Melbourne, FL, 1995.
- Coffey, J.W. (1994). A Computationally Efficient Rule Evaluation Method from Compiled Knowledge Bases. A Presentation at the Seventh Florida AI Research Symposium (FLAIRS '94), Pensacola Beach, FL, May, 1994.
- Coffey, J.W., (1994). Artificial Intelligence, Science Seminar for Superior Students, University of West Florida, February 17.

Coffey, J.W., (1994). Modern Computing Environments and Computational Intelligence, Pensacola Rotary Club, July 19.

Ford, K.M. & Coffey, J.W. (1993 - 1995). NUCES, Nuclear Cardiology Expert System. Presented to:

- Louisiana State University – The Chancellor of the University and Faculty of the Department of Computer Science, Baton Rouge, LA.
- Florida State Police, Tallahassee, FL.
- The State of Florida Board of Regents, Orlando, FL.
- Sopha Medical, Incorporated, Columbia, MD.
- The Board of Trustees, The University of West Florida, Pensacola FL.

Ford, K.M., & Coffey, J.W. (1993). Participatory Explanation. A Presentation at the Sixth Florida AI Research Symposium (FLAIRS '93), Ft. Lauderdale, FL, April.

Coffey, J.W., (1993). Interpreting Functional Images with NUCES: Nuclear Cardiology Expert System. The Gulf Coast (Pensacola) chapter of DPMA, September 14.

Coffey, J.W., (1993). Issues and Practice in Artificial Intelligence (And Other Fun Topics), Pensacola Junior College, November 4.

Panels

Digital Concept Maps as Tools for Organizing and Managing Knowledge and Information Resources. (2006). Moderator: Dr. Tanja Keller, Knowledge Media Research Center, University of Tubingen, Germany, Panelists: Dr. Geoff Briggs, CMEX, NASA Ames Research Center, Dr. Mauri Ahlberg, University of Helsinki, Dr. Pat Hayes, Institute for Human and Machine Cognition. CMC 2006, September 7, San Jose, Costa Rica.

Panel on Knowledge Elicitation. (2006). Moderator: Dr. Robert R. Hoffman, Institute for Human and Machine Cognition, Panelists: Dr. Josianne Basque, Tele-Universite, Canada, Mr. Ed Dotson, NS Navy, Dr. Tristan Johnson, Florida State University, Dr. Patrick Moore, University of West Florida. CMC 2006, September 7, San Jose, Costa Rica.

Training Knowledge Engineers (2004). Moderator: Dr. Robert R. Hoffman, Institute for Human and Machine Cognition, Panelists: Mr. Brian Moon, Klein Associates, Ms J.C. Dumestre, US Navy, Dr. F. Garcia Gonzalez, Universidad Autonoma de Puebla, Mexico. CMC 2004, September 16, Pamplona, Spain.

Dissertation and Thesis Work

Coffey, J.W. (2000). LEO: A Learning Environment Organizer to Accompany Constructivist Knowledge Models. Doctoral Dissertation, The University of West Florida, Pensacola, FL. *Advisor:* Dr. Alberto J. Cañas.

Coffey, J.W. (1992) Nuclear Cardiology Expert system: Development of a Prototype. Master's Thesis, University of West Florida. *Advisor:* Dr. Kenneth M. Ford.

The Institute for Human and Machine Cognition

Major Projects:

- **NUCES Project.** Researcher, Programmer and Knowledge Engineer. Created knowledge bases, designed and programmed (25,000 loc in C) a Multimedia graphical interface for a large scale expert system. Created Multimedia Model Editor and Model Player, the precursor to CMapTools. Database supervisor.
- **Project Quorum** - Programmer on large scale joint project with IBM Latin America. Automated file transfer between OS-2 machines by writing Rexx and C programs to UUencode and upload the files to mainframes, send files across SNA networks, UUdecode and download files on the other end.
- **Knowledge Preservation at NASA Lewis Research Center** - Elicited knowledge regarding Launch Vehicle System Integration from senior NASA engineers and represented that knowledge in multimedia knowledge models. Demonstrated three different arrangements of the knowledge to target various audiences and uses.
- **Multimedia Knowledge-Based Systems** - Name withheld at request of sponsoring agency. Demonstrated knowledge modeling of experts in a knowledge domain using CMapTools. Worked in Washington D.C.
- **Models & Prototypes for Improving the Effectiveness of Distance Learning & Computer-Mediated Learning.** Chief of Naval Aviation and Training (CNET).
 - Phase 1 - Researcher, Knowledge Engineer. Created a demonstration performance support system for electronics technicians.
 - Phase 2 - Researcher, Designer, Programmer. Created a pedagogical adjunct to CMapTools. Developed software that extended CmapTools capabilities, a large object-oriented computer program in Java.
- **Navy Meteorological and Oceanographic Facility** - METOC. Performed Cognitive Work Analysis of the installation, and worked collaboratively to create new ways to represent meteorological data.
- **Knowledge Modeling for Institutional Memory Preservation in the Nuclear Power Industry.** Large-scale knowledge modeling work with a turbine engineer and Physicist at Brown's Ferry Nuclear Power Plant, Decatur, AL.

Workshops - Participated in the preparations and delivery of the following:

Palo Alto Research Center (PARC) Contract - two-day workshop in which we demonstrated joint knowledge elicitation with Dr. Joseph Novak to researchers from PARC. We elicited knowledge from intelligence analysts regarding a knowledge domain of interest.

NASA Blue Sky Workshop - Facilitated multi-day group knowledge generation sessions via Concept Mapping for researchers from IHMC and NASA Ames Research Center

Gulf Power and Southern Company. Follow-on workshop to the knowledge elicitation work performed with two experts.

Missions to Mars multi-day workshop with representatives of NASA Ames Research Center.

Elicited knowledge on alternative exploratory missions to Mars including:

- humans remain on earth
- humans to orbit (including Libration point)
- humans to the surface of Mars

CmapTools Training Workshops. Multi-day workshops presented to:

- **The Electrical Power Research Institute (EPRI)** - Human Resources personnel trained in the use of CmapTools for the preservation of tacit and undocumented knowledge. 17 trainees.
- **Chief of Naval Education and Training (CNET)** – Four workshops in which 80 employees of NETPDTC were trained in the use of CmapTools for Human Performance documentation purposes.
- **Naval Education and Training Command (NETC)** The CFFC group of the reorganized command.
- **PATS** – "Enhancing Educational Experiences with Concept Maps and CmapTools" workshop delivered to 12 teachers from the PATS Center, Pensacola, FL.
- **TVA/BFN** - Served as the lead for a two-day workshop held for participants in a pilot study within Tennessee Valley Authority (TVA). Coordinated by EPRI.
- One of the nation's intelligence agencies. Details withheld at the request of the sponsoring agency.
- **The University of North Florida, Florida Institute of Education (FIE).** Organized and delivered two workshops on using CmapTools to build knowledge models of Intermediate Algebra.

No Guts, No Glory: Forging A Theory of Complex Cognitive Systems. Served as Knowledge Engineer/Facilitator, ALRADA Select Working Meeting, Boulder, CO, February 27 - March 1, 2003.

Introduction to Concept Mapping using the *CmapTools* Software CMC2004 Workshop.

Created and presented the workshop, Pamplona, Spain.

CAS Technical Planning Retreat - Planning for the College of Arts and Sciences School of Science and Engineering (SSE) organizational unit.

Capturing Experts' Knowledge Using Concept Maps. (2006). Moderators: Robert R. Hoffman and John W. Coffey. CMC 2006, the Second International Conference on Concept Mapping. September 7, San Jose, Costa Rica.

Commander's Predictive Environment Workshops

First workshop: January 16-17, 2006.

Second workshop: April 14-15, 2007.

Knowledge Models

- **Nuclear Cardiology Expert Systems (NUCES).** The original project for which the IHMC was created and funded. Elicited knowledge about the interpretation of radionuclide images of the left ventricle. Built knowledge-based consultation component to accompany the knowledge model.
- **Launch Vehicles Systems Integration (LVSI)** Performed at NASA Glenn Research Center. Created three separate multimedia elements that were integrated to create one knowledge model on launch vehicles systems integration
- **EI-Tech** – Knowledge model and interactive consultation system for Navy electronics technicians
- **STORM-LK** – Large-scale knowledge model of local weather forecasting knowledge that is necessary to be a forecaster in Pensacola, FL.
- **KMD** – The EPRI / Southern Company Knowledge Modeling Demonstration Project. Birmingham, AL.
- **Drought** - a project with the National Weather Service eliciting and modeling knowledge on conditions giving rise to droughts in the Southeastern United States.
- **Project name withheld by request of sponsors** - information withheld at request of clients.
- **Leadership** – information withheld at request of clients.
- **EPRI/TVA Pilot Project** - Knowledge Modeling for Institutional Memory Preservation pertaining to air effluent analysis and turbine maintenance/overhaul.
- **Social Network Analysis** - knowledge modeling pertaining to uses of Social Network Analysis. Department of Defense.
- **Boeing, Houston.** Demonstration Knowledge modeling for Institutional Memory Preservation pertaining to:
 - Space Shuttle Ascent Guidance
 - Space Station On-orbit Thermo-structural Analysis.

Patent

Ford, K.M., Cañas, A.J. & Coffey, J.W. (1996). Concept map-based multimedia computer system for facilitating user understanding of a domain of knowledge. U.S. Patent #5,506,937.

Projects and Grant PI/Co-PI

Externally Funded

Principal Investigator - Knowledge Acquisition at NASA LeRC. \$66,500.00
Co-Principal Investigator - Medical Educational Research Foundation (MERF). \$23,000.00
Principal Investigator (on subcontract) - Eliciting Knowledge and Reasoning of Southern Company Experts. \$18,800.00.

Internally Funded

- Wrote and defended annual proposals to the Student Government Association (SGA) for support for the Student Chapter of AITP. \$30,508.00
- University of West Florida Faculty Summer Research Grant (2006) \$6250.00
- University of West Florida Research Assistantship Grant (2006) \$1500.00

Institutional Service

To the University of West Florida

- Chair, Information Technology Planning and Advisory Committee (ITPAC) – the successor to UPC-IT (2009-present).
- ITPAC Subcommittee to develop a prioritization plan for strategic IT projects.
- University Planning Council for Information Technology (UPC-IT), University of West Florida (2001-2008). Participated in the formulation of the UWF IT Mission Statement and Strategic Plan.
- Co-chair, UPC-IT (2004-2008)
- UPC-IT Subcommittee for Classroom Technology
- UPC-IT Subcommittee for formulation of a framework for Student Access to Technology Fees (SATF).
- Chair, UPC-IT Subcommittee to study the feasibility of adopting Open Source Software
- UPC-IT Strategic Plan Subcommittee.
- UPC-IT Minimum Hardware Standards Subcommittee
- UWF Web Presence Committee
- Search Committee, Assistant Professor, Digital Media, Department of Art.
- Search Committee for Coordinator, Career Development Services (2001).
- Phon-a-thon volunteer for new students, 1996, 2001, 2003, 2008.
- Division of Engineering Technology External Review
- Focus Group on the University Portal
- Faculty Search Committee, Institute for Human and Machine Cognition, 1994.
- Tutor, Minority Retention Center, UWF. (1988).
- Tutor, Literacy Volunteers of America, Escambia County. (1991-1992)
- LEAD program - Students' Perspectives: The Educational Experience at UWF

To the Department of Computer Science

- Scholarship Committee (2000-2001).
- Committee Chair (2001 - present).
- Tenure and Promotion Committee (2005-present)
- Faculty advisor to the UWF chapter of DPMA/AITP. (1993 - Present)
- Computer Science Core Curriculum Committee, 1998-1999.
- Computer Science Department Ad Hoc Curriculum Design Group (2001-2002)
- CS Department committee to revise CIS curriculum , IT curriculum (2006-07-08).
- Computer Science Department representative for Saturday Open House and Undergraduate Orientations (in many years, 1996-present).
- Academic Advisor, Department of Computer Science (1993 to 1999).
- Faculty advisor to the UWF chapter of DPMA/AITP. (1993 - Present)
- ASC Open house (Fort Walton Beach, August 2006)
- Faculty Search Committee for two Lecturers (2005)
- Chair, Five-year self-study, Department of Computer Science
- Community outreach: visited area high schools to promote programs in computing.
- Mentoring Committee, Dr. Lakshmi Prayaga and Dr. Laura White

To the College of Arts and Sciences

- Teacher Incentive Program Committee Judge, 1998
- LAS Planning for Science and Technology building (2006-2007).

To the Profession

- Reviewer:
 - International Journal of Expert Systems
 - International Journal of Human-Computer Studies.
 - IEEE Expert
 - Advances in Computer-Supported Learning (Book)
 - Educational Research Review
 - Journal of Technology, Knowledge, and Society. Associate Editor for volume 4.
 - External reviewer for MEng degree, Alireza Kashian, School of EEE, Nanyang Technological University, Singapore
- Program Committee: Intelligent User Interfaces, IUI 2008 - 2008 International Conference on Intelligent User Interfaces. Canary Islands, Spain, January 13-16, 2008.
- Program Committee CMC: CMC 2004 - The First International Concept Mapping Conference, Pamplona, Spain, September 14-17, 2004, CMC 2006 - The Second International Concept Mapping Conference, San Jose, Costa Rica, September 5-8, 2006, CMC 2008 - The Third International Concept Mapping Conference, September 22-25, 2008. Tallin, Estonia and Helsinki, Finland, CMC 2010 –The Fourth International Concept Mapping Conference, Santiago, Chile, October 5-7, 2010.
- Advisory Committee for A.A./A.S. programs in Computer Programming, Pensacola Junior College, 1994-present.
- Twenty One Gallon Blood Donor, Northwest Florida Regional Blood Center
- Judge, Florida Panhandle Regional Science and Engineering Fair (many years).

Graduate Project Advisor

- Jiri Just
- Michael Webb
- Johnnie Odom
- Darcy Lewis
- Tim Giertz

Thesis Committees

- Bradley Swain – defended August, 2009
- Carlos Perez – defended Fall, 2009
- LaTrevia Pounds - defended 8/2001
- Michelle Buckalew - defended 1/2001
- Tony Croy - defended
- Sherri Sentelle - defended 1/2002
- Ian Schneller - defended 4/2002

Dissertation Committee

- John Bolyard

Computer Science Department Honors Project Advisor

- Travis Zimmerman

Electrical and Computer Engineering Department Honors Committee Member

- Laura Solari
- Jeffrey Gibson

Directed Individual Studies - Supervised the following students:

- Mithal Ashraf
- Robert Peters
- Roger Hawthorne
- Travis Zimmerman
- Gary Register
- Chris Ayers
- Chad Carff
- Bart McDonough
- Brian Watson
- Michael Webb
- James Holstead
- Paul Groth
- James Dodd
- Bruce Edgar
- Timeyo Banda
- Eric Larin
- Curtis Williams
- Alice Banks

Professional Development

- Professional Development Leave, University of West Florida, to complete Doctoral Dissertation, academic year 1999-2000.
- Teaching Portfolio Workshop 2001.
- LEAD: Leadership Enhancement and Development Program. Class of 2002.
- Teaching Partners, 2008-2010.

Memberships in Professional Organizations

- Association of Computing Machinery.
- American Association of Artificial Intelligence
- UWF chapter of Association of Information Technology Professionals.
- Chapter (Faculty) Advisor, UWF chapter of AITP.
- Chairman, Speaker Committee, Student chapter of AITP. (1990-1992)
- President, UWF student chapter of AITP. (1990-1991)

Security Clearance

Secret Level. Interim clearance, April, 1997, Final clearance, October, 1997.

Awards and Honors

- Lifetime member, Upsilon Pi Epsilon
- As Chapter Advisor to UWF chapter of AITP (Association of Information Technology Professionals):
 - Outstanding Student Chapter of the Year for AITP Region 7 (SouthEastern United States) 1998-1999 and 2000-2001, 2008-2009.
 - Student Chapter Outstanding Performance Award (SCOPA) 1993, 1994, 1998, 1999, 2000, 2009.
- Professional Development Leave, University of West Florida, to complete Doctoral Dissertation, academic year 1999-2000.
- Distinguished Teaching Award, UWF (1997).
- Golden Apple Award as Teacher of the Year, UWF. (1997)
- Teacher Incentive Program Award, (1997).
- Outstanding Student Organization Advisor, UWF, (1993 - 1994)
- Outstanding Student, Division of Computer Science, UWF. (1989)
- Honor Society of Phi Kappa Phi. (1989).
- Lifetime member, Phi Kappa Phi. (1991).
- Who's Who Among Students at American Colleges and Universities. (1991)
- Summa Cum Laude graduate of UWF.
- President's List, UWF. (every semester of Undergraduate studies)
- Certificate of Accomplishment for Outstanding Academic Performance, BellSouth Services, Summer, 1998, Winter, 1989.
- Graduate Scholarships: Division of Computer Science, UWF; Pensacola Chapter of DPMA.
- Dean's List, The College of William and Mary.