

Roberto Augusto Flores M.Sc., Ph.D.

Curriculum Vitae

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Research Interests

Areas Multiagent Systems, Software Engineering

Keywords Software agents, Communication protocols, Social commitments, Object-oriented software engineering

Education

1997-2002 Doctor of Philosophy in Computer Science (Agent-based Systems)

University of Calgary, Canada

- **Thesis:** “Modelling Agent Conversations for Action”
Developing a formal model for agent interaction protocols using commitments.
- **Advisor:** Prof. Robert C. Kremer
- **Abstract:** *Conversations are sequences of messages exchanged between interacting agents. For conversations to be meaningful, agents ought to follow conversational principles governing the exchange of messages at any point in a conversation. These principles must be defined in publicly verifiable terms (if they are to be used in open environments) and must allow the composition of flexible conversations (if they are to account for the context in which they occur). The main contribution of this thesis is to define a unified model for conversations for action that fulfills these requirements. The conversational principle in this model is the negotiation of shared social commitments, which entails the adoption and discard of obligations to act. This principle is encoded using conversation policies, which govern the form of conversations according to the observable state of interacting agents. The applicability of this model is shown through the modelling of two example conversations: one on the Contract Net Protocol, and the second on an electronic bookstore scenario.*

1995-1997 Master of Science in Computer Science (Software Engineering)

University of Calgary, Canada

- **Thesis:** “Programming Distributed Collaboration Interaction through the WWW”
Developing an Internet- & Web-enabled, multi-user Java Concept Mapping tool.
- **Advisor:** Prof. Brian R. Gaines
- **Awards:** ACM/IBM Quest of Java '97, First-Prize Award Winner.
- **Abstract:** *This Thesis presents the implementation of a client/server graphical concept mapping tool with support for asynchronous, multi-user & concurrent edition of diagrams over the Internet and the World Wide Web. This tool is composed of a server process, named jKSI mapper Server, and two client systems: jKSI mapper and jKSI mapplet, which allow concept mapping edition as a stand-alone program or as a downloadable program embedded in a Web browser, respectively. These programs were implemented using the Java programming language. A class library was developed to build these programs. This library was designed as an abstract framework to develop systems supporting graphical diagrams, and was planned as an extensible vehicle to support concept maps with formal constraints. This Thesis also includes an overview of the issues required for downloadable code; a description of the characteristics of the Java language; and the lessons learned when constructing these applications.*

1985-1990 Bachelor in Computer Systems Engineering (ISC)

Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico

Professional Experience

- 2010-Present Associate Professor of Computer Science (Tenured)
Christopher Newport University, Department of Physics, Computer Science and Engineering
- 2004-2010 Assistant Professor of Computer Science (Tenure-track)
Christopher Newport University, Department of Physics, Computer Science and Engineering
Teaching graduate/undergraduate courses, serving on University & Department committees, advising students, researching on multiagent systems & software engineering.
- 1990-1995 Software Designer & Programmer
Flores & Novelo, SCP
Designing and implementing software systems for the civil engineering field. Major systems were implemented in Borland's Object Pascal and C++.

Teaching Experience

- 2007 Spring Introduction to Computing, CPSC 110
2006 Fall Christopher Newport University, Dept. of Physics, Computer Science and Engineering
- 2005 Spring & Fall *Preparing students of all disciplines to work effectively with word processing (MS Word), spreadsheet (MS Excel) and electronic presentation (MS PowerPoint) software, with additional topics covering the basics of databases (MS Access) and HTML programming.*
2004 Fall
- 2008 Spring, Computers & Programming I, CPSC 150
2007 Spring Christopher Newport University, Dept. of Physics, Computer Science and Engineering
2006 Fall *Introduction to programming in Java. Students learn to write expressions, selection and iterative statements, array manipulation, methods, classes and the basics of inheritance and polymorphism. A few classes from the Java Library, such as Scanner, JOptionPane and ArrayList, are presented. These concepts are practiced in BlueJ.*
2005 Fall
- 2004 Fall Computers & Programming II, CPSC 231
Christopher Newport University, Dept. of Physics, Computer Science and Engineering
Intermediate programming in C++. Students learn templates, pointers, operator overloading, recursion, linked lists, and object-oriented programming (no longer offered).
- 2011 Spring Computers & Programming II, CPSC 250
2010 Spring & Fall Christopher Newport University, Dept. of Physics, Computer Science and Engineering
2009 Spring & Fall *Intermediate programming in Java (continuation of CPSC 150). Introduces students to the Java library, using collections, generic programming, enumerated types, event & GUI programming, networking, recursion and multi-threading. Assignments include fully-graphical (sometimes client/server) games, including space invaders, battleship, minesweeper, checkers, and pong. Programs are developed in Eclipse.*
2008 Fall
2007 Fall
2006 Spring & Fall
2005 Fall
- 2011 Spring Programming Language Concepts, CPSC 360
2010 Spring & Fall Christopher Newport University, Dept. of Physics, Computer Science and Engineering
2009 Spring & Fall *Theory and practice in programming languages. Students learn the history, evolution and design issues of major languages. Topics include syntax, semantics, binding, scoping, type checking, control structures, data types and object-oriented support. Assignments allow hands-on exposure to C#, C++, LISP, Prolog, Python, PHP, JavaScript and SQL.*
2008 Spring & Fall
2007 Spring & Fall
2006 Fall
- 2005 Summer Principles of Software Engineering, SENG 311
University of Calgary, Dept. of Computer Science
Introduction to Software Engineering. Topics include UML diagrams, object-oriented analysis & design, code reuse, testing, software processes, design patterns and formal specifications.

- 2010 Fall Software Design & Development, CPSC 480/501
 2009 Fall Christopher Newport University, Dept. of Physics, Computer Science and Engineering
 2008 Fall *Overview of object-oriented Software Engineering. Topics covered include UML diagrams, code reuse, testing, version control, software processes, design patterns, refactoring, debugging and formal specifications in Z and Object-Z.*
 2007 Fall
 2006 Spring
- 1999 Fall Artificial Intelligence, CPSC 530 (Jointly taught with Prof. Robert C. Kremer)
 University of Calgary, Dept. of Computer Science
Overview of the history, concepts and techniques in Artificial Intelligence. Topics covered include problem solving, first-order logic, planning and decision making, communication and acting. Students practiced these topics through assignments and a final in-class presentation.

Short Courses

- 2000 Winter Software Engineering Analysis and Design using UML
 University of Calgary, Faculty of Continuing Education
Two-week, intensive, hands-on course on Software Engineering practices. Students learned to design UML diagrams using Rational Rose, and their application to software processes.

Teaching Assistantships

- 1996-1999 Foundations of Software Engineering (CPSC 333), File Structures (CPSC 461), Systems Modeling and Simulation (CPSC 531), Advanced Information Systems (CPSC 547).
 University of Calgary, Dept. of Computer Science

Research Experience

- 2011 Sabbatical Visit (6 months)
 Department of Computer Science, University of Calgary, Canada.
Collaborators: Profs. Robert C. Kremer & Frank Maurer
- 2003-2004 Post-Doctoral Researcher
 Department of Computer Science, Université Laval, Quebec, Canada.
Advisor: Prof. Brahim Chaib-draa
- 2002-2003 Post-Doctoral Researcher
 Institute of Cognitive Sciences and Technologies, Consiglio Nazionale delle Ricerche, Rome, Italy.
Advisor: Prof. Cristiano Castelfranchi
- 1998-2002 Research Assistant
 Department of Computer Science, University of Calgary, Canada.
Advisor: Prof. Robert C. Kremer

Student Supervision

M.Sc. Students

- 2012 • Emily Coate. "TBA" (Expected 2012)
- 2011 • Martin Press. "Towards Dynamic Protocol Generation and Verification." (April 2011)
 • William Hanson. "Collaborative Rich Internet Applications in Geographic Information Systems: The GK-12 Watershed Interdisciplinary Science Education GIS System." (June 2011)

CNU Projects

- 2011 • James Klingenberg "Modified A* path finding for the efficient solving of mazes"
- 2010 • Justin Davis "SPEND: Solarium Platform Emulator Navigation Development for IRobot Create"

- 2009
 - Michael Donnelly “Eclipse RCP development of a Civil Engineering application.”
 - Martin Press “Traffic merging control simulation.”
 - Davin Saverline “World of Warcraft Add-on.”
 - Eric Roberts “Summer Internship at TraderOnline.com.”
 - Justin Davis “Solarium Platform Emulator Navigation Development for iRobot Create”
 - Timothy Wilda, (High School) Governor School for Science & Technology.
 - William Hanson (M.Sc.) “A Study of Computing Languages and Web Development.”
 - Jonathan Gallagher (M.Sc.) “Introduction to Functional Programming and Type Theory.”
- 2008
 - Martin Press & Daniel Goodwin “PALASS: A Portable Application for a Location-Aware Social System.”
 - David Brear “Implementation of a Personalized, Graphical, User-driven, Search Engine System.”
- 2006
 - Quintin Mirick. “Experimental Test Cases in a Trust Simulation Environment.”

Thesis Examiner

- 2011
 - Noah Ryan, M.Sc., CNU/PCSE
“Robust Gene Expression Programming: Evolving Treeless Expression Trees”
- 2010
 - Patrick Biron, M.Sc. CNU/PCSE
“Using Advanced Tree Drawing Algorithms to Visualize Scene Graph Node Data.”
- 2009
 - Steve O. Smith, M.Sc. CNU/PCSE
“Automated Generation of Randomized Java Programming Assignments from Abstract Descriptions.”
- 2008
 - Jeffrey A. Brown, M.Sc. CNU/PCSE
“Application Of Grid Technology To Natural Language Processing For Performance Improvement.”
- 2005
 - Jason Peter Heard. M.Sc. University of Calgary, Dept. of Computer Science.
“Detecting Broken Social Commitments: An Implementation and Investigation.”

Publications

Books

- Frank Dignum, Rogier van Eijk & Roberto A. Flores (Editors) (2007) “Agent Communication II: International Workshops on Agent Communication, AC 2005 and AC 2006 Utrecht, Netherlands, July 25, 2005 and Hakodate, Japan, May 9, 2006, Selected and Revised Papers”, Lecture Notes in Artificial Intelligence, Volume 3859, January 2007, Springer Verlag.

Journal Articles

- Roberto A. Flores, Philippe Pasquier & Brahim Chaib-draa. (2007) “Conversational Semantics Sustained by Commitments.” In F. Dignum & R. van Eijk (Eds.), *Autonomous Agents and Multi-Agent Systems*, Volume 14, Number 2, April 2007, Springer-Verlag, pp. 165-186.
- Roberto A. Flores & Robert C. Kremer. (2002) “To Commit or Not To Commit: Modelling Agent Conversations for Action.” In B. Chaib-draa & F. Dignum (Eds.), *Computational Intelligence, Special Issue on Agent Communication Languages*, Blackwell Publishing, Volume 18, Number 2, May 2002, pp. 120-173.
- Martin Press & Roberto A. Flores (2012) “Towards Flexible Conversation Protocol Generation and Verification: A Social Commitment Approach.” *IADIS International Journal on Computer Science and Information Systems* (To appear). [Extended version of *IADIS ISA 2011*]

Conference Papers (peer- reviewed)

- Martin Press & Roberto A. Flores (2011) “Towards Flexible Conversation Protocol Generation and Verification: A Social Commitment Approach.” In A. Palma dos Reis (Ed.), *Proceedings of the IADIS International Conference on Intelligent Systems and Agents (ISA 2011)*, Rome, Italy, July 24-26, 2011. IADIS Press, pp. 35-42. [Outstanding Paper Award]
- Anton Riedl, Dali Wang, Costa Gerosis, Roberto A. Flores & David Doughty (2009) “A Robotics Platform for

- Capstone Projects in Computer Engineering and Computer Science.” In Hamid R. Arabnia, Azita Bahrami & Victor A. Clincy (Eds.), 2009 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS '09) hosted by 2009 World Congress in Computer Science, Computer Engineering & Applications (WorldComp 2009), Las Vegas, July 13-16, 2009, pp. 217-222.
- Philippe Pasquier, Roberto A. Flores & Brahim Chaib-draa. (2006) “An Ontology of Social Control Tools.” In P. Stone & G. Weiss (Eds.), 5th International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2006), Hakodate, Japan, May 8-12, 2006. ACM Press, pp. 1369-1371.
 - Robert C. Kremer & Roberto A. Flores. (2005) “Using a Performative Subsumption Lattice to Support Commitment-based Conversations.” In F. Dignum, V. Dignum, S. Koenig, S. Kraus, M.P. Singh & M. Wooldridge (Eds.), 4th International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2005), Utrecht, The Netherlands, July 25-29, 2005. ACM Press, pp. 114-121.
 - Roberto A. Flores, Philippe Pasquier & Brahim Chaib-draa. (2005) “A Layered Model for Message Semantics using Social Commitments.” Poster in F. Dignum, V. Dignum, S. Koenig, S. Kraus, M.P. Singh & M. Wooldridge (Eds.), 4th International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2005), Utrecht, The Netherlands, July 25-29, 2005. ACM Press, pp. 1323-1324.
 - Roberto A. Flores & Robert C. Kremer. (2005) “Commitment-based Conversation Protocols.” 4th IASTED International Conference on Computational Intelligence (CI 2005), Calgary, Canada, July 4-6, 2005. pp. 147-152.
 - Roberto A. Flores & Robert C. Kremer. (2004) “A Pragmatic Approach to Build Conversation Protocols using Social Commitments.” Poster in N.R. Jennings, C. Sierra, L. Sonenberg & M. Tambe (Eds.), 3rd International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2004), New York City, USA, July 19-23, 2004. ACM Press, pp. 1240-1241.
 - Roberto A. Flores & Robert C. Kremer. (2004) “A Principled Modular Approach to Construct Flexible Conversation Protocols.” In A.Y. Tawfik & S.D. Goodwin (Eds.), Advances in Artificial Intelligence: 17th Conference of the Canadian Society for Computational Studies of Intelligence, Canadian AI 2004, Lecture Notes in Artificial Intelligence, Volume 3060, Springer-Verlag. London, Ontario, Canada, May 17-19, 2004, pp. 1-15.
 - Robert C. Kremer, Roberto A. Flores & C. La Fournie (2004) “A Performative Type Hierarchy and Other Considerations in the Design of the CASA Agent Communication Architecture.” In F. Dignum (Ed.), Advances in Agent Communication, Lecture Notes in Artificial Intelligence, Volume 2922, Springer-Verlag, 2004, pp. 59-74.
 - Robert C. Kremer, Douglas H. Norrie, Roberto A. Flores & Weiming Shen. (2000) “An Infrastructure for Flexible, Modular, Multi-User Intelligent Interfaces.” In IEEE International Conference on Systems, Man and Cybernetics (SMC 2000), Nashville, TN, October 8-11, 2000, pp. 739-744.
 - Fuhua Lin, Douglas H. Norrie, Robert C. Kremer & Roberto A. Flores. (2000) “Enabling Effective and Emergent Agent Conversations.” Poster in C. Sierra, M. Gini & J.S. Rosenschein (Eds.), 4th International Conference on Autonomous Agents (Agents 2000), June 3-7, 2000, Barcelona, Spain, 2000, pp. 233-234.
 - Roberto A. Flores. “Java Concept Maps for the Learning Web.” In T. Muldner & T.C. Reeves (Eds.), World Conference on Educational Multimedia/Hypermedia and Educational Telecommunications (Ed-Media/Ed-Telecom '97), Calgary, Canada, June, 1997.

Workshop Papers (peer-reviewed)

- Martin Press, Daniel Goodwin & Roberto A. Flores. (2008) “PALASS: A Portable Application for a Location-Aware Social System.” In R. Meersman, Z. Tari & P. Herrero (Eds.), 3rd International Workshop on Mobile and Networking Technologies for Social Applications (MONET '08), OnTheMove for Meaningful Internet Systems (OTM 2008), Lecture Notes in Computer Science (LNCS), Volume 5333, pp. 499–508, Springer-Verlag, Monterrey, Mexico, November 9-14, 2008.
- Roberto A. Flores, Philippe Pasquier & Brahim Chaib-draa. (2004) “Conversational Semantics with Social Commitments.” In R. van Eijk, M-P. Huget & F. Dignum (Eds.), Workshop on Agent Communication (AC2004), Lecture Notes in Artificial Intelligence, Volume 3396, Springer-Verlag, 2005, pp. 18-32.
- Philippe Pasquier, Roberto A. Flores & Brahim Chaib-draa. (2004) “Modelling Flexible Social Commitments and their Enforcement.” In M.-P. Gleizes, A. Omicini & F. Zambonelli (Eds.), 5th International Workshop: Engineering Societies in the Agents World (ESAW), Springer-Verlag, Lecture Notes in Artificial Intelligence, Volume 3451, Springer-Verlag, pp. 153-165, Toulouse, France, October 20-22, 2004.
- Roberto A. Flores & Philippe Pasquier. (2004) “Defining the scope of an introductory MAS course: A balancing act.”

- Position statement in J. Denzinger, G.A. Kaminka, Y. Kitamura & R. Unland (Eds.), Workshop on Teaching Multiagent Systems, 3rd International Conference on Autonomous Agents and Multi Agent Systems (AAMAS 2004), New York City, July 19-23, 2004, p. 4.
- Roberto A. Flores & Robert C. Kremer. (2002) "A Model for Flexible Composition of Conversations: How a Simple Conversation got so Complicated." In M-P. Huget, F. Dignum & J.L. Koning (Eds.), 3rd Workshop on Agent Communication Languages and Conversation Policies, 1st International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2002), Bologna, Italy, July 15-19, 2002.
 - Roberto A. Flores & Robert C. Kremer. (2001) "Bringing Coherence to Agent Conversations." In M.J. Wooldridge, P. Ciancarini & G. Weiss (Eds.), 2nd Workshop on Agent-Oriented Software Engineering (AOSE 2001), Lecture Notes in Computer Science, Volume 2222, Springer-Verlag, 2001, pp. 50-67.
 - Roberto A. Flores & Robert C. Kremer. (2001) "Formal Conversations for the Contract Net Protocol." In V. Marik, O. Stepankova, H. Krautwurmova, M. Luck (Eds.), 3rd European Agent Systems Summer School on Multi-agent Systems (EASSS 2001), Lecture Notes in Artificial Intelligence, Volume 2322, Springer-Verlag, 2001, pp. 169-179.
 - Roberto A. Flores, Robert C. Kremer & Douglas H. Norrie (2000). "An Architecture for Modeling Internet-based Collaborative Agent Systems." In T. Wagner & O.F. Rana (Eds.), 1st International Workshop on Infrastructure for Agents, Multi-Agent Systems, and Scalable Multi-Agent Systems, Lecture Notes in Computer Science, Volume 1887, Springer-Verlag, 2000, pp. 56-63.
 - Fuhua Lin, Douglas H. Norrie, Roberto A. Flores & Robert C. Kremer. (2000) "Incorporating Conversation Managers into Multi-agent Systems." In M. Greaves, F. Dignum, J. Bradshaw & B. Chaib-draa (Eds.), Workshop on Agent Communication and Languages, 4th International Conference on Autonomous Agents (Agents 2000), June 3-7, 2000, Barcelona, pp. 1-9.
 - Roberto A. Flores & Nick J.E. Wijnngaards. (1999) "Primitive Interaction Protocols for Agents in a Dynamic Environment." In B.R. Gaines, R.C. Kremer & M. Musen (Eds.), 12th Workshop on Knowledge Acquisition, Modeling and Management (KAW '99), Banff, Canada, Volume 1, pp. 3-2-1:3-2-20, October 16-21, 1999.
 - Roberto A. Flores. (1999) "Towards the Standardization of Multi-Agent System Architectures: An Overview." In L.D.S. Perry (Ed.), Crossroads, Special Issue on Intelligent Agents, Association for Computer Machinery (ACM), Issue 5.4, pp. 18-24, Summer 1999.
 - Roberto A. Flores, Pim van Leeuwen & Dickson Lukose. (1998) "Modeling Expertise using KADS and MODEL-ECS." In B.R. Gaines & M. Musen (Eds.), 11th Knowledge Acquisition for Knowledge-based Systems Workshop (KAW '98), Banff, Canada, Volume 1, pp. VKM-3:14, April 19-23, 1998.
 - Roberto A. Flores. (1996) "Distributed Concept Mapping Collaboration using Java." In B.R. Gaines & M. Musen (Eds.), 10th Knowledge Acquisition Workshop (KAW '96), Banff, Canada, Volume 2, pp. 64-1:64-7, November 9-14, 1996.

Other Publications (non-peer-reviewed)

- William Hanson, Roberto A. Flores, Geoffrey Klein, Michael Meyer, Lisa S. Webb & Gary Whiting (2011) "A Collaborative Rich Internet Application In Education: The GK-12 Watershed Interdisciplinary Science Education (WISE) System." In ESRI International User Conference, Session: "Web GIS in education: It's not just for desktops anymore", July 11-15, San Diego, CA, USA.
- Lisa S. Webb, Roberto A. Flores, Geoffrey Klein, Michael Meyer & Gary Whiting (2010) "Connecting Graduate Research to Undergraduate and Secondary Science Education." Virginia Academy of Science, 88th Annual Meeting, May 20-22, 2010, Harrisonburg, VA, USA.
- Roberto A. Flores & Lynn Lambert. (2009) "CPSC 250 Laboratory Manual." Department of Physics, Computer Science & Engineering, Christopher Newport University, September, 2009. (Published online)
- Roberto A. Flores. (2008) "CPSC 150 Laboratory Manual: A Practical Approach to BlueJ, JUnit & WebCAT." Department of Physics, Computer Science & Engineering, Christopher Newport University, January, 2008.
- Michele D. Jacobson, Robert C. Kremer & Roberto A. Flores. (1999) "On-line testing and grading: WebCT in Computer Science." In New Currents in Teaching and Technology, University of Calgary, Volume 6:3, April 1999.

Grants & Awards

- 2009 Graduate Teaching Fellows in GK-12. National Science Foundation (NSF) award 0841295, Co-PI, "GK-12 Fellows: Linking Urban Water Quality with Science Education in the Chesapeake Watershed." US\$2,630,000 (estimated).
- 2007 Dean's Summer Grant, College of Liberal Arts & Sciences, Christopher Newport University. *Updating the CPSC 150 laboratory manual to add object-oriented exercises, JUnit test and Web-CAT support.* Value: US\$1,500
- 2005 Dean's Grant, College of Liberal Arts & Sciences, Christopher Newport University. *One-class relief to design a student training program for the ACM programming contest.* Value: US\$1,500
- 2002-2004 Post-Doctoral Fellowship (PDF), Natural Sciences and Engineering Research Council of Canada (NSERC), National Competition, Canada. Value: CAN\$75,000.
- 2000-2001 Graduate Scholarship, Alberta Informatics Circle of Research Excellence (iCORE), Regional Competition, Alberta, Canada. Value: CAN\$15,000.
- 1999-2001 Graduate Scholarship (PGS-B), Natural Sciences and Engineering Research Council of Canada (NSERC), National Competition, Canada. Value: CAN\$38,200.
- 1997 ACM/IBM Quest of Java '97, Association for Computer Machinery (ACM) and International Business Machines (IBM), International Java programming contest, First-prize winner. Value: US\$3,500.
- 1995-1997 Graduate Scholarship, Consejo Nacional de Ciencia y Tecnología (CONACYT), National Competition, Mexico. Value: US\$35,000.

Service

1. Research

Organizer

- AAMAS Workshop on Agent Communication (AC '05, '06)
Co-organized with Rogier van Eijk (Utrecht University, The Netherlands) & Marc-Philippe Huget (University of Savoie, France).

Local Organizing Committees

- International Conference on Knowledge Capture (K-CAP 2003) *Student Volunteers' Coordinator.*
- Knowledge Acquisition Workshop (KAW '99) *Poster Session Coordinator.*

Program Committees

- International Conference on Agents and Artificial Intelligence (ICAART '09, '10, '11),
- 7th International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS '08)
- 4th International Workshop on Agents and Web Services in Distributed Environments (AWeSOME'08)
- Conference on Complex Open Distributed Systems (CODS'2007), Track on Open Dynamic Multi-Agent Systems.
- International Central and Eastern European Conference on Multi-Agent Systems (CEEMAS '03, '05, '07)

Reviewer

- IEEE Transactions on Computers.
- IEEE Transactions on Knowledge and Data Engineering.
- IEEE Transactions on Systems, Man, and Cybernetics.
- Journal of Autonomous Agents and Multi-Agent Systems.
- Journal of Applied Intelligence.
- International Journal of Cooperative Information Systems.
- International Journal of Agent-Oriented Software Engineering.
- International Journal of Semantic Web and Information Systems.
- PHILOSOPHIA—Philosophical Quarterly of Israel (Journal).
- Workshops on Agent Communication.
- Pacific Rim International Workshop on Multi-Agents.
- Knowledge Acquisition Workshops.
- Revista Iberoamericana de Computación y Sistemas

2. University

Academic Affairs Committees

- Undergraduate Degrees Committee (UDC), CNU, 2008-2009 (Member), 2010-2011 (Vice-Chair)
- Library Advisory Committee (LAC), CNU 2005 (Member), 2006 (Vice-Chair), 2007-2009 (Chair)

Administrative Committees

- Parking Advisory/Appeals Committee, CNU, Spring 2008-present (Member)

University Judicial System Committees

- University Committee on Student Discipline (UCSD), CNU, Subcommittee on Hearing Panels. 2006-2009 (Member)

Faculty Evaluation Committees

- Peer review, CNU, Dept. of Physics, Computer Science & Engineering, 2006, 2007 (Member)
- Peer review, CNU, Dept. of History, 2007 (Member)
- Peer review, CNU, Dept. of Fine Arts and Art History, 2005, 2006 (Member)
- Peer review, CNU, Dept. of Modern & Classical Languages & Literatures, 2005 (Member)
- Peer review, CNU, Dept. of Music, 2005 (Member)

Hiring Committee

- Search committee (Developer position) CNU, IT Services, 2008 (Member)
- Search committee (Faculty position), CNU, Dept. of Modern & Classical Languages & Literatures, 2005 (Member)
- Search committee (Faculty position), University of Calgary, Dept. of Computer Science, 2001 (Graduate student representative)

3. Department

- Computer Science Committee, CNU, PCSE, 2004-present (Member)
- Web Site Committee (ad hoc), CNU, PCSE, 2004-present (Member)
- ACM Collegiate Programming Contest (ad hoc), CNU, PCSE, 2005-present (Coach)

4. Academics

- Since 2008, I maintain the "CNU BlueJ Formatter", which is a configurable software plug-in for the BlueJ IDE. Created as a software engineering student project under my direction in 2007, this plug-in uses the code formatting capabilities developed for the Eclipse IDE. After its presentation to the BlueJ community in SIGCSE 2008, the plug-in has been downloaded for free by thousands of BlueJ users world-wide.

5. Student volunteering

- 7th International Conference on Object-Oriented Information Systems (OOIS '01), Calgary, Canada, August 27-29, 2001.
- 4th International Conference on Autonomous Agents (Agents 2000), Barcelona, Spain, June 3-7, 2000.
- 3rd International Conference on Autonomous Agents (Agents '99), Seattle, USA, May 29-June 3, 1999.
- 11th Knowledge Acquisition for Knowledge-based Systems Workshop (KAW '98), Banff, Canada, April 19-23, 1998.
- World Conference on Educational Multimedia/Hypermedia and Educational Telecommunications (Ed-Media/Ed-Telecom '97), Calgary, Canada, June 1997.
- 10th Knowledge Acquisition for Knowledge-based Systems Workshop (KAW '96), Banff, Canada, November 9-14, 1996.

6. Extra-curricular volunteering

- 1991-2000 Member of the non-profit NGO Frente Cívico Familiar, in Merida, Mexico. This civic group, affiliated to the internationally-renowned Alianza Cívica, promoted citizen participation in elections through the organization of awareness campaigns, observer networks, and studies showing statistical analysis of trends in the media's coverage of political candidates. During the presidential elections in 1994 and 2000, I was responsible for the deployment of international observers in rural Yucatan, the former year in collaboration with the United Nations.
- 1998-2001 Researched, compiled and posted on the web academic studies and newspaper articles supporting the preservation of X'cacel (a beach in the Mayan Riviera, Mexico, known as a turtle nesting site). This work contributed to the effort of multiple national and international NGO, and resulted in a Mexican federal government decree in 2001 stopping all touristic development in X'cacel.

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