

**Arturo J. Sánchez–Ruíz, PhD**  
**Assistant Professor**  
**Curriculum Vitae<sup>1</sup>**

**September, 2003**

OFFICE ADDRESS:

University of North Florida  
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*http://www.unf.edu/~asanchez*

PERSONAL	NAME:	Arturo J. Sánchez–Ruíz.
DATA	BORN:	Caracas, Venezuela.
	SEX:	Male.
	LANGUAGES:	Spanish, English, Portuguese (fluent). French, Italian (reads, understands).

EDUCATION      **PhD in Computer Science, May 1995.**  
Rensselaer Polytechnic Institute, Troy, NY State, USA.

**MS in Computer Science, May 1992.**  
Rensselaer Polytechnic Institute, Troy NY, USA.

**Completed Required Graduate Coursework, MS Program in Computer Science, December 1986.**  
Simón Bolívar University (USB), Caracas, Venezuela.

*Licenciado* **Diploma in Computer Science (Magna Cum Laude), April 1983.**  
Computer Science Department, Central University of Venezuela (UCV), Caracas, Venezuela. (Note: this is a 5-year undergraduate CS program. Requires a final project directed by a faculty member and presented before an appointed evaluation committee.)

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<sup>1</sup>The majority of the documents cited here are electronically available (as PDF files) from <http://www.unf.edu/~asanchez>.

RESEARCH  
INTERESTS  
(IN RANDOM  
ORDER)

**Software Engineering:** Generic Programming, Component-Based Software Engineering, Design Patterns and Frameworks, Software Architectures.

**Interoperability:** Reusing Legacy Code and Construction of Automatic Tools (to support related activities), Web Services.

**CS Education:** Automatic Algorithm Animation with Pedagogical Purposes, Web-Based Courseware, CS Curricula.

REFEREED  
PUBLICATIONS  
IN  
REVERSE  
CHRONOLOGICAL  
ORDER

**An Architectural Pattern for Adaptable Middleware Infrastructure**, with Jason Mitchell, Accepted for presentation and inclusion in the proceedings of IRI'2003 the 2003 IEEE International Conference on Information Reuse and Integration, to be held in Las Vegas, October 2003.

**Incorporating Aspects into the UML**, with Mark Basch, Proceedings of the ACM/IBM Third International Workshop on Aspect-Oriented Modeling, Boston, March 2003.

**Complete Traversals as General Iteration Patterns**, with William Klostermeyer, and David Musser. In *Generic Programming*. (International Federation for Information Processing Series, 115), Jeremy Gibbons, Johan Jeuring (Editors). Kluwer Academic Publishers, 2003. ISBN: 1402073747.

**Design Patterns in The Standard Template Library**, Proceedings of ACM OOPSLA Educators' Symposium, Seattle, Washington, November 2002.

**Security Aspects of a Web-Based Academic Information Management Systems – A Taxonomy and Implementation Guide**, with Sean Warden. In Proceedings of the Syllabus Fall 2001 Conference, Boston, December 2001.

**Containers and Iterators: An Example of Constructive Elicitation of Patterns**, In Proceedings of ACM OOPSLA Educators' Symposium, Tampa, Florida, October 2001.

**Building a Web-Based, WYSIWYG Interface Cascading Style Sheet Editor**, with John Chester. In Proceedings of the XXVII Latinamerican Conference on Informatics, CD-ROM Edition, Universidad de los Andes, Merida, Venezuela, September 2001.

**Towards a Framework for Large Itemsets Generation in Association Rules Mining**, with Paul Fortier and Denis Mukhin. Proceedings of IRI'2000: The Second International Conference on Information Reuse and Integration, pp. 48-53, Honolulu, Hawaii, November 2000.

**Towards a Graphical Notation to Express the C++ Template Instantiation Process**, with Jia Dei-Wei. Poster presented at OOPSLA'2000, Minneapolis, Minesota, October 2000.

**LAPACK-J: A JNI-Based Approach to Reuse High-Performance Linear Algebra Code**, with Eric Gamess. Proceedings of PANEL'2000: The XXVI Latinamerican Conference on Informatics. CD-ROM Edition by Monterrey Institute of Technology (ITESM), Mexico City, Mexico, September 2000.

**Theory and Generality of Complete Traversals**, with D. Musser, in M. Jazayeri, R. Loos, and D. R. Musser, editors, *Generic Programming*, Lecture Notes in Computer Science 1766, pp. 91-101, Springer-Verlag, 2000.

**Assessing the Performance of Generic Components: The Complete Traversal Case Study**, with D. Musser, and M. Tripathi. Poster presented at OOPSLA'99, Denver, Colorado, November 1999.

REFEREED  
PUBLICATIONS  
(CONT'D)

**Complete Traversals and their Implementation Using the Standard Template Library**, with E. Gamess and D. Musser. *CLEI Electronic Journal*, 1(2), May 1999. Special issue with the best papers presented at CLEI'97 (Valparaíso–Chile), an revised version of the paper cited above with the same title.

**Algunos Criterios para la Construcción de Animaciones con Propósitos Pedagógicos** (*Some Criteria for Building Algorithm Animations with Pedagogical Purposes, in Spanish*), with A. Pereira. In Proceedings of RIBIE'98 (Ibero-American Conference on Informatics in Education), held in Brasilia, Brasil, October 1998.

**Complete Traversals and their Implementation Using the Standard Template Library**, with E. Gamess and D. Musser, in *Proceedings of PANEL'97: The XXIII Latin-American Conference on Informatics* (pp. 221–230), Valparaíso–Chile, November 1997. Chosen among best papers of this conference.

**Re-engineering Legacy Code: A Case Study**, in *Proceedings of ISAS'96: The International Conference on System Analysis and Synthesis* (pp. 283–290), Orlando–USA, July 1996.

**Type Models: Toward Unifying Concepts for Language Interoperability**, in *Proceedings of PANEL'96: The XXII Latin-American Conference on Informatics* (pp. 541–552), Bogotá–Colombia, June 1996.

**Two Undecidable Problems in Multi-Language Reusability Under ROOM**, in *Proceedings of PANEL'95: The XXI Latin American Conference on Informatics*, pp. 1163–1174, Canela, Brasil, July–August 1995.

**Multi-language Programming: An Automatic-Type-Mapping Approach**, with E. P. Glinert, in *Proceedings of IEEE COMPSAC'92 (Chicago)*, September 1992, pp. 57–62, IEEE Computer Society Press.

## PHD THESIS

**On Automatic Approaches to Multi-Language Programming via Code Reusability**, *PhD Thesis, Computer Science Department, Rensselaer Polytechnic Institute*, April 1995. Advisor: Dr. Ephraim P. Glinert.

## MS PROJECT

**An Algorithm for the Apollonius Contact Problem and its Implementation in Pascal**, *MS Project, Computer Science Department, Rensselaer Polytechnic Institute*, May 1992. Advisor: Dr. Marco Paluzsny.

UNDERGRADUATE  
THESIS

**Numerical Solution of Large Sparse Linear Algebraic Systems in Petroleum Reservoir Simulations** (In Spanish), *BS Thesis, Computer Science Department, Universidad Central de Venezuela*, April 1983. Advisor: Dr. Victor Pereyra.

TECHNICAL  
REPORTS

**An Automatic Type Mapping Approach to Multi-language Programming**, with E. P. Glinert, *Technical Report 91-27, Computer Science Department, Rensselaer Polytechnic Institute*, May 1991.

**ROOM: A Reverse Object-Oriented Approach to Multi-Language Reusability**, with E. P. Glinert, *Technical Report 95-17, Computer Science Department, Rensselaer Polytechnic Institute*, December 1995.

**Four Examples of Multi-Language Reusability Using ROOM**. *ISYS Research Report RT/05/96-15*, May 1996.

**Tool XF2F of ROOM: Translating XFortran Programs and Generating the Services**. *ISYS Research Report RT/05/96-16*, May 1996.

**Toward a Language-Independent Legacy Software Visualizer: The Case of Procedural Languages**, with E. P. Glinert and J. Ruiz. *ISYS Research Report RI/06/97-29*, June 1997.

VISITING  
RESEARCH  
POSITIONS

**Visiting Researcher**, Computer Science Department, University of Massachusetts, Amherst, Mass. Invited by Prof. Jack C. Wileden, in September 1997.

**Visiting Researcher**, Computer Science Department, Rensselaer Polytechnic Institute, Troy, NY. Invited by Prof. David R. Musser, in September 1997.

DIRECTED  
DOCTORAL  
DISSERTATIONS

**A Performance-Oriented Architecture for Building Metasystems**, by Eric Gamess. Computer Science Department, Universidad Central De Venezuela, Caracas. Defended June 2000. Co-advised with Dr. Emilio Hernández.

**A Framework for Association Rules Mining**, by Denis Muhkin. ECE Department, University of Massachusetts-Dartmouth. Defended May 2000. Co-advised with Dr. Paul Fortier.

DIRECTED  
MS PROJECTS  
AND  
THESES

**Automatic Generation of Test Suites for Struts** (MS Project, University of North Florida), by Greg Jackson. In progress.

**Web Services for the Sharing of Heterogeneous Scientific Data** (MS Project, University of North Florida), by Sean Warden. In progress. Jointly supervised with Dr. Sherif Elfayoumy.

**Developing a Web-Based Generic Application Framework to Handle Exception Reporting at United Parcel Services** (MS Project, University of North Florida), by Ron McNatt. In progress.

**An Architectural Pattern for Adaptable Middleware Infrastructure** (MS Project, University of North Florida), by Jason Mitchell. Finished April 2003.

**Extending UML for Describing Aspects in Aspect-Oriented Programming** (MS Thesis, University of North Florida), by Mark Basch. Finished December 2002.

**An MVC-Based Architectural Design to Support the Rapid Development of Kiosk Applications, and the Automatic Generation of Associated GUI Components** (MS Project, University of North Florida), by Tom Lynch. Finished December 2002.

**Incorporating a Suite of Design Patterns into a CASE Tool to Support the Teaching and Learning of Core Software Design Concepts** (MS Project, University of North Florida), by Srilakshmi Garikipati. Finished December 2002.

**Automatic Generation of Execution Traces for Interaction-Free Java Programs** (MS Project, University of North Florida), by Qing Lu. Finished April 2002.

**A Web-Based WYSIWYG Interface, Cascading Style Sheet (CCS) Editor** (MS Project, University of North Florida), by John Jordan Chester. Finished April 2001.

**On C++ Template Analysis** (Masters, University of Massachusetts-Dartmouth), by York Whipple. Finished August 2000.

**Web-based STL Tutorial** (MS Project, University of Massachusetts-Dartmouth), by David Bennett, Ray Byrd, Jay Calicchia, and Dan Courville. Finished May 2000.

**A Graphical Notation to Express the C++ Template Instantiation Process** (MS Project, University of Massachusetts-Dartmouth), by Jia Dei-Wei. Finished May 2000.

**The Performance of Three Approaches to Complete Traversals** (MS Project, University of Massachusetts-Dartmouth), by Mrinalini Tripathi. Finished August 1999.

**VROOM: A Visualizer for ROOM** (Undergraduate Project, Universidad Central de Venezuela), by Jesús Ruiz. Finished August 1997.

**Algorithm Animations for a Course on Analysis of Algorithms** (Undergraduate Project, Universidad Central de Venezuela), by Alda Pereira. Finished November 1996.

RESEARCH  
PROJECTS,  
GRANTS, AND  
SCHOLARSHIPS

**V-PSL and VISI-PSL: A Visual Language and Interactive Tool For PSL Generation**, co-Principal Investigator, with "Computer-Aided Process Improvement (CAPI)", a small Florida Business. Funded by the National Institute of Standards and Technology (NIST). July 2003–February 2004. Competitive.

**ACM/SIGPLAN Educator's Scholarship** (Fall 2002): Covers registration to OOPSLA's Technical Sessions, Educators' Symposium, Tutorials, and costs associated with airfare and lodging. OOPSLA stands for Object-Oriented Systems, Programming Languages, and Applications the most prestigious international conference in Object-Oriented technology, sponsored by the Association for Computing Machinery (ACM). Competitive.

**ACM/SIGPLAN Educator's Scholarship** (Fall 2001): Covers registration to OOPSLA's Technical Sessions, Educators' Symposium, Tutorials, and costs associated with airfare and lodging. Competitive.

**Frameworks for the Mining of Association Rules** (Research Scholarship, Summer 2001): Awarded by the Office of Academic Affairs, University of North Florida. Principal Investigator: Prof. Arturo Sánchez. Goal: to design a software framework used to implement various algorithms for association rules mining. Competitive.

**Introductory Computer Science Laboratories for Program Comprehension** (1999-2000): Funded by the Chancellor's Office, and the CIS Department. Principal Investigators: Prof. Arturo Sánchez, and Prof. Richard Upchurch. Goal: To design and implement laboratory exercises targeted at introductory computer science courses, by using collaborative work, and program comprehension techniques. Competitive.

**ROOM** (1996–1998): Funded by CDCH, a Venezuelan agency for the promotion of research and development. Principal Investigator: Dr. Arturo Sánchez. Goal: A Programming Environment for Multi-language Reusability. Competitive.

**Grant Type A** (1997): Funded by CDCH to acquire a Sun Ultra Sparc 1, and a multimedia notebook. Grant holder: Dr. Arturo Sánchez. Competitive.

RESEARCH  
PROJECTS,  
GRANTS, AND  
SCHOLARSHIPS  
(CONT'D)

**CEMA** (1991–1992): Funded by the US National Science Foundation. Participated as Research Assistant. Principal Investigator: Dr. Ephraim P. Glinert from Rensselaer Polytechnic Institute. Goal: Integration of Tools for Scientific Computing.

**OOCADÉ** (1988): Funded by the US Navy. Participated as Research Assistant. Principal Investigator: Dr. Ephraim P. Glinert from Rensselaer Polytechnic Institute. Goal: Object–Oriented Computer–Aided Design Engineering.

**CORPOVEN'85** (1985): Funded by CORPOVEN, a branch of PDVSA the Venezuelan Petroleum Company. Participated as Junior Researcher. Principal Investigator: Dr. Claudio Bifano from the Geophysics Department, UCV. Goal: Production of Mercury Pollution Maps.

**INTEVEP'83** (1983): Funded by INTEVEP, an R&D branch of PDVSA. Participated as Undergraduate Research Assistant. Our undergraduate thesis was one of the main contributions to the project. Principal Investigator: Dr. Victor Pereyra from Weidinger Associates, Los Altos CA. Goal: Numerical Solution of Large, Sparse Linear Algebraic Systems in Petroleum Reservoir Simulators.

## BOOK REVIEWS

**“ProgramLive: A Multimedia, Java-Based Livetext on Programming”**, by David Gries, and Paul Gries, John-Wiley and Sons, 2000.

**“An Introduction to Object-Oriented Programming in Java”**, by C. T. Wu, McGraw-Hill, 1999.

EDITORIAL  
ASSISTANCE

**“Visual Programming and Environments: Paradigms and Systems”**, Ephraim P. Glinert (Editor), IEEE Computer Society Press, 1990.

**“Visual Programming and Environments: Applications and Issues”**, Ephraim P. Glinert (Editor), IEEE Computer Society Press, 1990.

REVIEWER OF  
CONFERENCES

**“Latin-American Conference on Informatics”**, Sponsored by Latin-American Center for Studies in Informatics (CLEI): 1995, 1996, and 1997.

**“Visual Languages 1991 (VL91)”**, Sponsored by Association for Computing Machinery (ACM): 1991.

TUTORIALS,  
COURSES TO  
INDUSTRY  
AND  
INVITED  
TALKS

**Teaching Object-Oriented Concepts: Patterns, Visualization, and Cognitive Issues.** Invited talk to the first COOLIE meeting, in the context of the Comprehensive Object-Oriented Learning (COOL) project, lead by 2001 ACM Turing Award, and 2002 IEEE John von Neumann Medal Prof. Kristen Nygaard. Northeastern University, Boston, April 2002.

**Extreme Programming: A New Way to Approach Programming, Team Practices, and Processes in Software Development. Tutorial** accepted at the XXVII Latinamerican Conference on Informatics, Merida, Venezuela, September 2001.

**Frameworks for Implementing Containers and Iterators in Java and C++: Similarities and Differences. Tutorial** presented at the XXVI Latinamerican Conference on Informatics, Mexico City, Mexico, September 2000.

**Paradigmatic Software Development. Course** given at INTECH, Taipei, Taiwan, March 2000.

**Experiences on Developing a Web-Based STL Tutorial,** with D. Bennett, R. Byrd, J. Calicchia, and D. Courville. **Talk** given at the CIS Seminar Series, CIS Department, UMass-Dartmouth, April 2000.

**C++ Template Analysis Error Reporting: Can C++ Compilers do Better?** with Jia Dei-Wei. **Talk** given at the CIS Seminar Series, CIS Department, UMass-Dartmouth, April 2000.

**On Generic Libraries and Reusing Legacy Systems. Talk** given at the UMass-NUWC (Nuclear Undersea Warfare Center) Technical Exchange, UMass-Dartmouth, December 1999.

**Generic Programming. Course** given at Raytheon Electronics, Portsmouth, Rhode Island, August 1999.

**Improving Programming Productivity by Using Libraries of Generic Components. Talk** given at the Advanced Technology Manufacturing Center (ATMC) Technology Transfer Conference, UMass-Dartmouth, May 1999.

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**Two Flash Animations to Teach Fundamental Object-Oriented Concepts,** with Heather Goff, May 2000.

PROFESSIONAL  
DEVELOPMENT  
ACTIVITIES

**Documenting Software Architectures: Views and Beyond:** Tutorial by Paul Clemens from the Software Engineering Institute. Portland, May 2003.

**Second International Summit on Software Engineering Education:** Portland, May 2003.

**Third Workshop on Aspect-Oriented Modeling:** Boston. March 2003.

**International Conference on Aspect-Oriented Software Development:** Boston. March 2003.

**Patterns of Enterprise Application Architecture:** OOPSLA 2002 Tutorial by Martin Fowler. Seattle, November 2002.

**The Forgotten Art of Software Architecture:** OOPSLA 2002 Tutorial by Tutorial by Frank Buschmann. Seattle, November 2002.

**ACM OOPSLA 2002:** Technical Papers, Educators' Symposium, Design Fest. Seattle, Washington, November 2002.

**Liking what you are learning: how to make every course an appreciation course:** A Pedagogy Seminar organized by the Office of Faculty Enhancement, UNF. October 2002.

**Teaching with Style:** Seminar by Dr. Anthony Grasha (Department of Psychology, University of Cincinnati), organized by the Office of Faculty Enhancement, University of North Florida, September 2002.

**How to Overcome the Chaos of Software Development Management?:** A Rational Software's Seminar. Jacksonville, August 2002.

**Mathematics for Program Construction 2002.** Dagstuhl, Germany, July 2002.

**Working Conference on Generic Programming 2002.** Dagstuhl, Germany, July 2002.

**Rational Software's Seminar on Developing Enterprise Applications with Rational Suite and Visual Age for Java within IBM WebSphere.** Jacksonville, February 2002.

**Syllabus, Fall 2001.** Boston, December 2001.

**ACM OOPSLA 2001:** Technical Papers, Educators' Symposium, Design Fest. Tampa, October 2001.

**Course Redesign,** Workshop organized by the Office of Faculty Enhancement, University of North Florida, May 2001.

**XII International Conference on College Teaching and Learning.** Jacksonville, April 2001.

**Managing an Academic Career,** Talk by Robert M. Moxley, Ph.D. Organized by the Office of Faculty Enhancement and the College of Health, University of North Florida.

**Educator's Symposium, and Technical Papers,** as part of OOPSLA'2000. October 2000.

PROFESSIONAL  
DEVELOPMENT  
ACTIVITIES  
(CONT'D)

**Educator's Symposium**, as part of OOPSLA'99. November 1999.

**OOPSLA'99 Technical Papers**, as part of OOPSLA'99. November 1999.

**Active-Collaborative Learning**, by P. K. Imbrie, from Texas A&M University. June 1999.

**First UMD Faculty Seminar on Teaching**, by UMD Center for Teaching and Learning. November 1998–April 1999.

**Getting Started with the [Java] Swing Components**, by John Zukowski, from MAGELAN. April 1999.

**Presenting Data and Information**, by Edward Tufte, from Cambridge Graphics. March 1998.

HONORS AND  
AWARDS

**Paper Reviewer** (2003-): IEEE Electrical Engineering Review Latin America.

**Faculty Fellow** (2003-2004): University of North Florida, Office of Faculty Enhancement (competitive).

**Associate Researcher** (2002-): Invited to join the research staff of the COOL International Project, lead by 2001 ACM Turing Award, and 2002 IEEE John von Neumann Medal recipient, Prof. Kristen Nygaard, from the University of Oslo.

**Lab Coordinator** (1996-1998): Selected by peers as the coordinator of the Automatic Tools Construction Lab (AuTooLab), Software Engineering and Systems Center (ISYS), Computer Science Department, UCV-Caracas.

**Best Professor** (1997): Selected by graduating students of the class of 1997 (by votation), Computer Science Department, UCV-Caracas.

**PPI, Level I** (1996): This is an award given by the Venezuelan National Council for the Promotion of Science and Technology (CONICIT) to scientists nationwide as a recognition to their scientific production. Level I is the second out of four levels and the rank is revised bi-annually.

**Magna Cum Laude** (1983): This is an award given by Universidad Central de Venezuela to alumni who achieve a GPA of 18.00/20.00 in their undergraduate studies.

**First of Graduation** (1983): This is an award given by Universidad Central de Venezuela (UCV) to alumni who rank number 1 (according to the GPA) in their graduation group.

TEACHING  
EXPERIENCE

**2000–Present:** Assistant Professor, undergraduate, and graduate programs (MS), Coordinator of the Software Engineering Graduate Track. CIS Department, University of North Florida, Jacksonville.

**1998–2000:** Assistant Professor, undergraduate, and graduate programs (MS), Computer Science Department, University of Massachusetts–Dartmouth.

**1995–1998:** Associate Professor, undergraduate, and graduate programs (MS/PhD), Computer Science Department, UCV-Caracas.

**1993–1995:** Assistant Professor, undergraduate, and graduate programs (MS), Computer Science Department, UCV-Caracas.

**1988–1993:** Teaching Assistant, undergraduate program, Computer Science Department, Rensselaer Polytechnic Institute.

**1983–1988:** Instructor, undergraduate program, Computer Science Department, UCV-Caracas.

SERVICE  
@UNF AND  
JAX COMMUNITY

**Coordinator of the graduate Software Engineering Track.** Computing and Information Sciences Department, University of North Florida. Fall 2001 –.

**Member of Strategic Planning Committee.** University of North Florida. Fall 2003 –.

**Member of the Office of Faculty Enhancement Advisory Board.** University of North Florida. Fall 2003 –.

**Member of International Council.** University of North Florida. Fall 2003 –.

**Member of International Task Force.** University of North Florida. Fall 2002 –.

**Member of UNF's Hispanic Council,** and webmaster for its webpage (jointly with Ida Gropper). Fall 2002 –.

**Member of Graduate Curriculum Committee.** Computing and Information Sciences Department, University of North Florida. Fall 2000 – Summer 2003.

**Search and Screen Committee (Faculty Search).** CIS Department, University of North Florida. Fall 2002-Spring 2003.

**Reviewer for the First UNF COCSE Annual Symposium and Career Showcase.** University of North Florida, April 2003.

**Organizer of the panel Contemporary Approaches to Developing Large-Scale Enterprise Systems.** Part of the First UNF COCSE Annual Symposium and Career Showcase. University of North Florida, April 2003.

**Judge at the Northeast Florida Kiwanis Regional Science and Engineering Fair.** Jacksonville, April 2003.

**Search and Screen Committee (Computer Specialist Search).** College of Computing Sciences and Engineering, University of North Florida. Spring 2001.

SERVICE  
@UMASS-  
DARTMOUTH

**Search and Screen Committee (Faculty Search).** CIS Dept. UMass-Dartmouth. Spring 2000.

**Graduate Curriculum Committee.** CIS Dept. UMass-Dartmouth. Fall 1998-Spring 2000.

**College of Engineering Curriculum Committee.** CIS Dept. UMass-Dartmouth. Spring 2000.

**College of Engineering Web Task Force.** CIS Dept. UMass-Dartmouth. Spring 2000.

**Freshman Advisor.** CIS Dept. UMass-Dartmouth. Fall 1998-Spring 2000.

**Library Liaison.** CIS Dept. UMass-Dartmouth. Fall 1998-Summer 2000.

**CIS Seminar Series Organizer.** CIS Dept. UMass-Dartmouth. Fall 1998-Spring 2000.

SERVICE  
@UCV-CARACAS

**Library Liaison.** CS Dept. UCV-Caracas. 1994-1998.

**Faculty Representative.** School of Computer Science Council. UCV-Caracas. 1995-1996.

**Programming Languages Group Coordinator.** Department of Computer Science. UCV-Caracas. 1996-1998.

COURSES  
TAUGHT:  
UNDERGRADUATE  
AND  
GRADUATE  
LEVELS

See <http://www.unf.edu/~asanchez> for a sample of some web-based courseware we have developed.

**Engineering of Software I and II, Software Quality Assurance and Testing, Software Practicum, Introduction to Object-Oriented Programming, Data Structures Using Object-Oriented Programming, Topics on Advanced Object-Oriented Concepts, Software Engineering, Software Development, Introduction to Computer Science I, and II (Pascal, C, C++, Java), Programming Languages, Analysis of Algorithms, Data Structures, Discrete Structures, Software Design, Formal Languages, Computability Theory, Compiler Design, Semantics of Programming Languages, Topics on Generic Programming, Topics on Reusability, Topics on Web-Based Textbook Construction, Topics on Algorithm Animation, Numerical Analysis.**

SOCIETIES      **Association for Computing Machinery (ACM).**  
**Institute of Electrical and Electronic Engineers (IEEE).**  
**IEEE Computer Society (IEEE–CS).**  
**American Federation of Teachers.**  
**National Education Association.**

MISCELLANEOUS      **Hosted “Latin Lands”**, a radio program featuring the music and the cultural scene from South America, Portugal, and Spain (jointly with Pedro Lima), on WRPI, 91.5 FM, Troy, NY. From 1991 to 1993.

*Arturo J. Sánchez Ruíz, Ph.D.  
September, 2003*