

Jaime Niño
Computer Science Dept
University of New Orleans

Background

Education

Tulane University, PhD Mathematics. August/81.

Tulane University, MS. Mathematics. May/79.

Universidad Nacional de Colombia, Bogota, BS Mathematics. June/75.

Experience

University Of New Orleans. Associate Professor. August/87 – Present.

University Of New Orleans. Assistant Professor. August/82 – August/87

Loyola University, New Orleans. Assistant Professor. August/81-May/82.

Scholarly and Creative Productivity

1. Publications

A. Books:

a. Scholarly textbooks.

None.

b. Textbooks. **Refereed.**

J. Niño and F. A. Hosch, An Introduction to Programming and Object Oriented Design using Java, Preliminary edition. Limited. John Wiley and Sons, New York, Aug/2000. Co-author.

J. Niño and . A. Hosch, An Introduction to Programming and Object Oriented Design using Java, John Wiley and Sons, New York, May, 2001. Co-author.

J. Niño and F. A. Hosch, An Introduction to Programming and Object Oriented Design using Java, 1.5 Ed. John Wiley and Sons, New York, May, 2005. Co-author.

J. Niño and F. A. Hosch, An Introduction to Programming and Object Oriented Design using Java, 2nd, Revised with Java 2nd. Ed. John Wiley and Sons, New York, Dec, 2005. Co-author.

J. Niño and F. A. Hosch, An Introduction to Programming and Object Oriented De-

sign using Java,3rd Ed. John Wiley and Sons, New York, Dec 2007. Co-author.

B. Refereed/Invited Publications.

a. Book Chapters

None.

b. Journal Articles

None.

c. Monographs

None.

d. Referee Proceedings

J. Niño. Introducing API Design Principles in CS2. The Journal of Computing Sciences in Colleges, Vol 24, Number 4. April 2009. 6 pgs.

J.Niño. An Overview of Programming Language Based Security. The 47th ACM South East Conference. Clemson, S.C. March 19-21, 2009. 6 pgs.

J.Niño. "Software Engineering Team Studios". The Journal of Computing Sciences in Colleges, Vol 23, Number 4. April 2008. 6 pgs.

J.Niño. The Cost of Erasure in Java Generics Type System. The Journal of Computing Sciences in Colleges, Vol 23, Number 5. April 2007. 5 pgs.

J.Niño. Java From The Trenches: Dealing with Object Orientation and Generics. The Journal of Computing Sciences in Colleges, Vol 23, Number 5. April 2007. 6 pgs.

J.Niño, R.Casalla. Software Architecture and Complex system design. Presented in Software development for the 21st Century Symposium. March/99. Bogota. Colombia. 6 pgs.

J. Niño, F.Hosch. "Object Orientation as the Paradigm in Introductory Core Courses." Workshop on Object Design and Implementation. OOPSLA October/96. 6 pgs.

J. Niño *Three Views of Current Software Development Practices*. Proceedings of the Eleventh Annual of the Ada Software Engineering Education and Training Team (ASEET) Symposium. June, 1996. Prescott, AZ. 7 pgs.

J.Niño. *Object-Guided Design: A Controlled Alternative to Bottom-up Design*. Proceedings SIGCSE Technical Symposium, pgs 205-211. St. Louis, MO. March 1992. 5 pgs.

J. Niño, H. Evans. *A Tool supporting Programming in the Large in the introductory Software Development Courses*. Proceedings of the Sixth Annual Ada Software Engineering Education and Training Symposium. pgs 75-82. Alexandria, VA. September/91. 7 pgs.

J. Niño. "Language Features for Software Continuity". ACM Conference South East Region. pgs 143-148. Auburn, Alabama. March 1991. 7 pgs.

J. Niño. " Designing for Reuse". SIGCSE Technical Symposium. pgs 122-126. March, 1991. 8 pgs.

J.Niño. "A Design Methodology for Object-based Languages". Proceedings of the Fifth Annual of the Ada Software Engineering Education and Training Team (ASEET) Symposium. pgs 89-94. August, 1990. 6 pgs.

J. Niño. "Object Oriented Models for Software Reuse". Proceedings of the IEEE Southeastcom. pgs 122-127. March 1990. 6 pgs.

J. Niño "Formal Specifications techniques in Ada". Proceedings of the Third Annual of the Ada Software Engineering Education and Training Team (ASEET) Symposium. Arlington VA. pgs 64-69. June, 1988. 6 pgs.

Flaherty Terry, J. Niño, "SRL and Polymorphism : An extension of Lambda Calculus with Abstract Data Types" Proceedings of the Second Workshop of the Mathematical Foundations of Programming Language Semantics. pgs 214-221. Tulane University. New Orleans, La. April 1987. 8 pgs.

J. Niño, "Ada from the Trenches: A classroom experience." Proceedings of the Second Annual of the Ada Software Engineering Education and Training Team (ASEET) Symposium. pgs. 220-224. June 1987. 8 pgs.

H. Evans, W. Greene, J. Niño, W. Patterson, D. Rudd, and J. Thomas, " Ada as a Primary Language in a Large University Environment", Proceedings of the Third National Conference on Ada Technology. March 20-21, 1985. 5 pgs.

C. Other Publications

a. Non-Refereed Academic publications.

J.Niño, F. Hosch. "Introducing Programming with Objects in CS1. Fifth Workshop on Pedagogics and Tools for Assimilating Object Oriented Concepts OOP-SLA'01, Sunday, October 14, 2001. (2 pgs)

J.Niño. "Test first design in CS1 and CS2". Position paper. Panel on XP in education. Symposium on Agile Software developing methods. July 2001. Raleigh, N. C. (3 pgs)

J. Niño, " Programming by Contract in the core software development courses." pgs 1-5. Workshop on "Assertions". July 28-30/96. Bucknell University. Lewisburg. PA. (5 pgs)

J. Niño, "Properties for lab in the software development sequence." pgs 1-8. Workshop on "Laboratories in Computer Science". Clemson University, S.C. June 5- 9 1994. (3 pgs)

b. Others

2. Accepted for publication but not yet published

None.

3. Artistic or Other Creative Contributions

“High Performance Computing”. Workshop. Sponsored by NSF. Louisiana State University, Baton Rouge, LA. July 5-11/09.

“Designing Java Class Hierarchies”. Workshop. Sponsored by NSF. Northeastern University. July 13-18. 2003. Boston.MA.

“Programming with Alice”. Workshop. Sponsored by NSF. Mississippi State University. Oxford MS. July 24-27, 2005.

“The Future of CS1”. Workshop. Sponsored by NSF. Duke University. Durham. NC. March 21-23. 1997.

“Future Direction for CS2”. Workshop. Sponsored by NSF. Duke University. Durham. NC. March 21-23. 1997.

NSF Sponsored Grant for attending Workshop on “Assertions”. July 28-30/96. Bucknell University. Lewisburg. PA.

NSF Sponsored Grant for attending/acting participant Workshop on “Parallel Programming in the Undergraduate Curriculum”. June 9- June 18, 1995. CSU-Fresno.

NSF Sponsored Grant for workshop on “Laboratories in Computer Science”. Clemson University, S.C. June 5- 9 1994.

NSF Sponsored Tutorial Grant for attending Tutorial on “ Object Oriented Design/Programming. “ Orlando, Fl. August/1993

“Parallel Programming in the Under graduate Curriculum”. June 17-28, 1991. Colgate Univ. NY.

“Forensic Tool Kit Training”. Mini-course. University Of New Orleans. August 3-6, 2006.

Alice Workshop. University of Mississippi. Oxford MS. June3-7/2004

Designing Class Hierarchies. North Eastern University. Boston,Mas.July 5-10/2002.

Design Patterns. OOPSLA tutorial. October 9. 1997.

Distributed Computing Systems. Computer Science Department. University of Texas, at Austin. April 1990.

Introduction to Object-Oriented Concepts and Smalltalk. Computer Science Department. Stanford University. August 1990.

Object Oriented Design and Methodology. Computer Science Department. Stanford University. August 1990

Category Theory For Computer Scientists. Computer Science Department. University of Texas, at Austin. September 1989.

4. Papers presented at professional meetings

J. Niño. Introducing API Design Principles in CS2. The Journal of Computing Sciences in Colleges, Vol 24, Number 4. April 2009.

J.Niño. An Overview of Programming Language Based Security. The 47th ACM South East Conference. Clemson, S.C. March 19-21, 2009.

J.Niño. "Software Engineering Team Studios". Sixth CCSC Mid South Conference. April 2008. Arkansas Tech University. Russellville, AR.

J.Niño. The Cost of Erasure in Java Generics Type System. pgs 2-11.Fifth CCSC Mid South Conference. March 2007. Monroe, LA

J.Niño. Java From The Trenches: Dealing with Object Orientation and Generics. Fifth CCSC Mid South Conference. March 30-31, 2007. Monroe, LA

J.Niño, R.Casalla. Software Architecture and Complex system design. Presented in Software development for the 21st Century Symposium. March/99. Bogota. Colombia.

J. Niño, F.Hosch. "Object Orientation as the Paradigm in Introductory Core Courses." Workshop on Object Design and Implementation. OOPSLA October/96.

J. Niño *Three Views of Current Software Development Practices*. Proceedings of the Eleventh Annual of the Ada Software Engineering Education and Training Team (ASEET) Symposium. June, 1996. Prescott, AZ.

J.Niño. *Object-Guided Design: A Controlled Alternative to Bottom-up Design*. Proceedings SIGCSE Technical Symposium, St. Louis, MO.March 1992.

J. Niño, H. Evans.*A Tool supporting Programming in the Large in the introductory Software Development Courses*. Proceedings of the Sixth Annual Ada Software Engineering Education and Training Symposium. Alexandria, VA. September/91.

J. Niño. "Language Features for Software Continuity".ACM Conference South East Region. Auburn, Alabama.March 1991

J. Niño. " Designing for Reuse". SIGCSE Technical Symposium. March, 1991.

J.Niño. "A Design Methodology for Object-based Languages". Proceedings of the Fifth Annual of the Ada Software Engineering Education and Training Team (ASEET) Symposium. August, 1990

J. Niño. "Object Oriented Models for Software Reuse". Proceedings of the IEEE Southeast-com. March 1990.

J.Niño, F. Hosch. "Introducing Programming with Objects in CS1. Fifth Workshop on Pedagogics and Tools for Assimilating Object Oriented Concepts OOPSLA'01, October 14, 2001

J.Niño. "Test first design in CS1 and CS2". Position paper. Panel on XP in education. Symposium on Agile Software developing methods. July 2001. Raleigh, N. C.

J. Niño, “ Programming by Contract in the core software development courses.” pgs 1-5. Workshop on “Assertions”. July 28-30/96. Bucknell University. Lewisburg. PA.

J. Niño, “Properties for lab in the software development sequence.” pgs 1-8. Workshop on “Laboratories in Computer Science”. Clemson University, S.C. June 5- 9 1994.

5. Other Scholarly or Creative Activity

A. Service in role of reviewer

ASSET conference.

Object Oriented Technology in the Americas.

Special Interest Group in Computer Science Education. (SIGCSE)

Consortium for Computing Sciences in Colleges Conference.

Wiley. Publisher. Manuscript and book reviewer.

Addison Wesley. Manuscript and book reviewer.

Pearson Publisher. Manuscript and book reviewer.

Several other smaller publishing houses. Reviewer.

6. Awards, Lectureships or Prizes

None.

7. Grants and Contracts Received

a. Principal Investigator, Co-Principal Investigator .

J. Niño (Co-PI). A Laboratory for Next-Generation Information Assurance Instruction and Research. LA-BOR 06/09 - 07/10. \$112,000.00.

J. Niño (PI). STARS Alliance, Broad Computing Participation. NSF subcontract 02/08 - 02/11 \$46,855.00

G. Richard, J.Niño, V. Rousev. (Co-PI). “Information Assurance Scholarship Program.” 2008-2009, Department of Defense, PI: \$113,494.J.

Niño. (PI). “SFS: Capacity Building: Curriculum Development for Faculty Teaching Digital Forensics”. National Security Agency. \$24,000.00 09/07-08/08

J. Niño. (PI). “A Software Engineering Studio.”, BOR. 6/1/06/-6/1/08. \$80,000.00

J, Niño. (PI). “A Tutorial Annex to the Software Development Lab”. UNO Internal grant. August/2001. \$20,000.00

J,Niño,(PI). Faculty Initiative for Teaching Technology, UNO, 12/00, \$3,500 (equipment)

J.Niño, (Co-PI) et al. A research and teaching laboratory for distributed/concurrent compu-

ting. Submitted to the Louisiana Board of Reagents Support fund. Funded for \$90,000.00. Period of funds: June-1997-May/1998.

J.Niño.(PI). A software Engineering Laboratory for the Undergraduate Curriculum. LEQSF. \$157,000.00 1 year, 1991-1992.

W. Patterson, J. Niño. and others. (Co-PI). Title: Louisiana Systemic Education Initiative.LASER. 1992-1992. \$15,000.00

NSF Sponsored Grant for attending a Workshop on “Parallel Programming in the Undergraduate Curriculum”. (PI). June 17-28, 1991. Colgate Univ. NY.

NSF Sponsored Tutorial Grant for attending Tutorial on “ Object Oriented Design/Programming. (PI). “ Orlando, Fl. August/1993

NSF Sponsored Grant for workshop on “Laboratories in Computer Science”. (PI). Clemson University, S.C. June 5- 9 1994.

NSF Sponsored Grant for attending/acting participant Workshop on “Parallel Programming in the Undergraduate Curriculum”. (PI). June 9-June 18, 1995. CSU-Fresno.

NSF Sponsored Grant for attending Workshop on “Assertions”. (PI). July 28-30/96. Bucknell University. Lewisburg. PA.

OOPSLA’96 Educators’ Scholarship. (PI). OOPSLA/96. San Jose. CA.

8. Theses/dissertations

Thesis Chair. Undergraduate Honors Thesis. Jimmy Wylie. Programming Language Security. 05/2009.

Thesis Committee. Master Thesis. Ricardo Aguirre. Resilient Average and Distortion Detection in Sensor Networks. 05/2009.

Thesis Chair. Master Thesis. Marcel Mata. Security in The Software Development Process. 05/10.

9. Major Areas of Creative or Research Interest

Computer Science Education, Software Engineering, Software Engineering Security, Distributed Software Engineering, Object-oriented methods and the software development curriculum; Programming Languages, Programming Languages Security.

10. Other Professional Accomplishments

A. Manuscripts under submission.

J.Niño. Analysis of Data Abstraction via Object Orientation and Abstract Data Types. Submitted. Consortium for Computing Sciences in Colleges, South Central. Austin TX. April 2010.

J. Niño. Data Structures And Object Oriented Development. Draft. Submitted. Wiley Pubs. 03/09.

B. Course/Program design and Development.

J.Niño, F. Hosch. Design and Development of the course sequence for software development. CSCI-1583, 2120, 2125.

J.Niño. Design and Development of the Programming Laboratory Sequence. CSCI-1581, CSCI-2121.

J.Niño. Development, maintenance and update of laboratory materials and libraries for CSCI-1581, CSCI-2121.

J.Niño. Design and Development of CSCI-4210. Software Engineering.

J.Niño. Design and Development of CSCI-6990. Software Patterns and Frameworks.

J.Niño. Design and Development of CSCI-4310. Parallel Programming and Multicore. Currently under development.

C. Special recognition for teaching.

Name best teacher for consecutive years by the graduating undergraduate students.

D. Academic Service.

a. On Campus.

University Senate. Senator. Several terms.

Undergraduate Computing Science curriculum committee. Chair and member.

Undergraduate Appeals committee. Member.

Programming Labs coordinator

Faculty Liaison, STARS Alliance organization.

Advisor of the UNO STARS chapter to coordinate and manage the following activities carried out by students members of the chapter under the charge of Broad Computing Participation:

1. Tutoring and support in learning for the Core courses in Computing Science and the introductory programming courses in Engineering and Liberal Arts.
2. Outreach activities in high schools to attract students to the fields of Computing Science and engineering. Activities: talks, presentations in high schools. Labs carried out in the department where high schools students are invited to attend.

3. Tutoring on High Schools.
4. Participation in recruitment activities organized by the UNO administration.

b. Off-Campus.

Youth At Risk. Committee Member.

Advisor to several high schools for Computer Science.

E. Other services

None.