

# Graciela Perera

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## RESEARCH INTEREST

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My research is in computer networks and protocols, distributed systems, and applied security. My current research interests are next generation networks; wireless sensor networks applications, and infrastructure safety. Additionally, her current emphasis is discovering applied experimental approaches towards modeling Internet attacks and defenses. Also, I have a strong focus on discovering innovative methods and models in computer science education in network security.

## TEACHING INTEREST

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My goal as a teacher is to find creative ways to facilitate active learning and outreach potential students. I believe more than ever that teaching is all about participation; inside and outside the classroom. Currently, I am applying the Affinity Research Group (ARG) model in the classroom and towards the creation of an interdisciplinary research group for undergraduates and graduates whose interests are in computing.

## EDUCATION

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- Fall 2013**                    **Associate Professor**  
Department of Computer Science  
Northeastern Illinois University
- 2007 – Spring 2013**   **Assistant Professor (tenured)**  
Department of Computer Science and Information Systems  
Youngstown State University
- Spring 2012**                **Visiting Professor**  
Department of Computer Science  
University of Texas at El Paso
- 2007**                         **Ph.D. Student** Department of Computer Science and Engineering  
University of South Florida
- Dissertation Topic: Design and Evaluation of New Search Paradigms and Power Management for Peer-to-Peer File Sharing  
(Supervisor: Dr. Ken Christensen)
- M.Sc.** Department of Computing and Information Technology  
Simón Bolívar University, Venezuela
- Thesis Topic: Automatically Converting Formal Specifications Models  
(Supervisor: Prof. Crisitina Zoltan and Dr. Nunzio Savino)
- B.S.** Department of Systems Engineering  
Metropolitan University, Venezuela

## BOOK

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"New Search Paradigms and Power Management for Peer-to-Peer File Sharing," published by VDM Verlag. June 4, 2008

## PEER REVIEWED PUBLICATIONS

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- 1) A. Angartita, C. Guerrero, and G. Perera, "Virtual Learning Environment to Support Object Oriented Programming Learning," *Revista Colombiana de Computación*, 2013
- 2) G. Perera, J. Mela, N. Miller, and M. P. McGarry, and J. C. Acosta "Emulating Internet Topology Snapshots in DeterLab," In Proceedings of the Third ACM Conference on Data and Application Security and Privacy (CODASPY'13), February 18-20, 2012, San Antonio, TX
- 3) M. Goncalves, D. Torres, and G. Perera, "An Evaluation Algorithm for Location Based Skyline Queries," 2nd Workshop on Recommender Systems meets Databases in conjunction with the 23rd DEXA Conference, September 3 - 7, 2012, Vienna, Austria.
- 4) N. Miller, F. Robba, G. Perera, and J. Cummins, "Detecting Malicious Transmissions Using the NetFPGA Open Source Platform," 2nd Networking Networking Women Workshop at the 31st Annual IEEE International Conference on Computer Communications, March 25 - 30, 2012, Orlando, FL.
- 5) A. Drivere, and G. Perera, "A First Step towards Evaluating the Impact of Wide Area Deployments on the Internet," 16th Annual International Conference on Mobile Computing and Networking (Mobicom), September 20-24, 2010, Chicago, IL. (Graduate student Drivere from CIS fully funded by conference)
- 6) M. Goncalves, G. Perera, and S. Rodabaugh, "Detecting Illegal File Sharing in Peer-to-Peer Networks Using Fuzzy Queries," IEEE International Conference on Fuzzy Systems, July 18-23, 2010, Barcelona, Spain.
- 7) M. Goncalves and G. Perera, "A Metric For Ranking High Dimensional Skyline Queries," International Conference on Enterprise Information Systems, June 8-12, 2010, Funchal-Madeira, Portugal.
- 8) F. X. Li, P. K. Kolli, G. C. Perera, A. Islam, "Real-time Urban Bridge Health Monitoring Using a Fixed Wireless Mesh Network," IEEE Radio and Wireless Symposium, January 10-14, 2010, New Orleans, LA.
- 9) G. Perera, R. Kramer, and A. Weaver, "SELLS: A Space Efficient Local Look-up Search Peer-to-Peer Protocol for Trustworthy Key Distribution," *International Journal of Modern Engineering (IJME)*, Vol. 1, No. 10, pp 35-41, 2009.
- 10) G. Perera and Robert G., "PCSP: A Probable Concurrent Secure and Portable Peer-to-Peer Protocol," 9th Annual International Symposium on Applications and the Internet, July 20-24, 2009, Seattle, WA.
- 11) Adam Magana, Benjamin Christen, and Graciela Perera, "Tipping Point Evaluation of a Network Intrusion Detection System (NIDS) for Peer-to-Peer Networks", 3rd Annual CAHSI Conference sponsored by Google, January 15-18, 2009, Mountain View, CA.
- 12) G. Perera, R. Kramer, and A. Weaver, "SELLS: A Space Efficient Local Look-up Search Peer-to-Peer Protocol for Trustworthy Key Distribution," NAIT - IJME International Conference, November 2008.
- 13) G. Perera, "PSP: A Personal Secure Protocol in Peer-to-Peer Networks," Technical Poster in Proceedings Grace Hopper Celebration for Women in Computing Conference, October 2007.
- 14) G. Perera and K. Christensen, "Broadcast Updates with Local Look-up Search (BULLS): A New Peer-to-Peer Protocol," in *Proceedings of the 44<sup>th</sup> ACM Southeastern Conference*, March 2006. *Nominated for best paper.*
- 15) K. Christensen, D. Rundus, G. Perera, and S. Zulli, "CSE Volunteers: A Service Learning Program to Provide IT Support to the Hillsborough County School District," in *ACM SIGCSE 2006 Symposium*, pp. 229-233, March 2006.

- 16) G. Perera and K. Christensen, and A. Roginsky, "Targeted Search: Reducing the Time and Cost for Searching for Objects in Multiple-Server Networks," in *Proceedings of the International Performance Computing and Communication Conference*, pp. 143-149, April 2005.

## POSTERS/PRESENTATIONS

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- 1) G. Perera, Keynote Speaker at OUR STEM program at Youngstown State University., August 2016, <http://www.ysu.edu/news/our-stem-august-8>.
- 2) G. Perera, "Applications of Math in Network Security", Minorities in Mathematics Speaker Series (MIMSS) at North Central College, May 2016.
- 3) G. Perera, ""Wireless Sensor Nodes Key Exchange Protocol Ideas for Structural Health Monitoring Bridges", 3rd Annual Greater Chicago Area System Research Workshop (GCASR)., April 21, 2014, Chicago, IL. **Very selective as the acceptance rate was 16% of 70 submissions.**
- 4) G. Perera, "GENI inside and outside of the classroom," NSF-GENI Regional Workshop at NEIU, November 18, 2015, Chicago, IL.
- 5) G. Perera, "Discovering the Internet Topology with Simple Experimental tools," NEIU Fourth Annual Faculty Research & Creative Activities Symposium, November 15, 2013, Chicago, IL.
- 6) N. Miller, and G. Perera, "Detecting Malicious Transmissions using the NetFPGA Open Research Platform," 2012 SACNAS National Conference, October 11-14, 2012, Seattle, WA.
- 7) J. Cummins, W. Hill, K. Marlin, J. Rivera, and G. Perera, "Xbox LIVE: Could you be at risk while playing online?," 4rd Annual CAHSI Conference sponsored by Microsoft , April 5-7, 2010, Redmond, WA.
- 8) A. Magana, and G. Perera, "Building a PHP Framework To Promote Better Human-Computer Interaction," 24th National Conference on Undergraduate Research (NCUR), April 15-17, 2010, Missoula, MT.
- 9) B. Christen, and G. Perera, "Can Illegal File Sharing Be Filtered By Intrusion Prevention Systems?," 24th National Conference on Undergraduate Research (NCUR), April 15-17, 2010, Missoula, MT.
- 10) B. King, and G. Perera, "Analyzing Heuristics for the Reduction of Power Consumption in Peer-to-Peer Networks," 2011 Richard Tapia Celebration of Diversity in Computing Conference, April 3-5, 2011, San Francisco, CA.
- 11) J. Rivera, and G. Perera, "Implementation of Target Enumeration using Euler Characteristic Integrals," 2011 Richard Tapia Celebration of Diversity in Computing Conference, April 3 -5, 2011, San Francisco, CA
- 12) B. Lance, and G. Perera, "Performing Cross-Platform Authentication for Legacy Applications using Microsoft Active Directory," 25th National Conference on Undergraduate Research (NCUR), March 31 - April 2, 2011, Ithaca, NY
- 13) J. Cummins, and G. Perera, "Introducing Optimization Algorithms using the Bees Algorithm to Extract Fuzzy Measures from Sample Data," 25th National Conference on Undergraduate Research (NCUR), March 31 - April 2, 2011, Ithaca, NY
- 14) J. Mela, and G. Perera, "Replicating Abilene's Daily Traffic using DETER," 25th National Conference on Undergraduate Research (NCUR), March 31 - April 2, 2011, Ithaca, NY
- 15) W. Hill, K. Marlin, and G. Perera, "Flattening Internet Topology: Modeling a Better Internet through Classical Analysis," 25th National Conference on Undergraduate Research (NCUR), March 31 - April 2, 2011, Ithaca, NY.

## WHITE PAPERS/OTHER PUBLICATIONS

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- 1) October 2015: NSF GENI Sustainment, Governance, and Future Network Research Cyberinfrastructure. Graciela Perera, Northeastern Illinois University. "A Research and Educational Perspective from a Teaching University."
- 2) January 2017: "Affinity Research Group Model – Graciela Perera at Northeastern Illinois University," Teaching Practice highlighted in *Teaching Naked Techniques: A Practical Guide for Designing Better Classrooms* (Jossey-Bass)

## LANGUAGES

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English (fluent), Spanish (fluent), French (read)

## GRANTS

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- 2016-2021**      **Senior Personnel:** (PI Dr. Ann Gates at UTEP): BPC-A: Computing Alliance of Hispanic-Serving Institutions--Building a Resilient, Sustainable, and Adaptable CAHSI Ecosystem (Estimated budget for NEIU **\$163,000**). National Science Foundation
- 2010-2011**      **PI:** (Frank Li Co-PI from Electrical Engineering at YSU): Monitoring Bridge Safety with Skyline Algorithms for Wireless Sensor Networks (**\$100,000**). DOT- Center for Transportation and Materials Engineering.
- 2009-2010**      **Co-PI:** *Real-Time Stress Monitoring of Highway Bridges with a Secured Wireless Sensor Network* (**\$100,000**). DOT- Center for Transportation and Materials Engineering.
- 2008-2009**      **PI:** *B2B: A Bridge to Building Capacity for Hispanics in Computer Science Research Education* (**\$10,000**). Grassroots Capacity Building Initiative of the Ohio Latino Affairs Commission.
- 2008-2009**      **Co-PI:** *University Research Council (URC) Grant Youngstown State University* (**\$7,750**) and *Research Assistant* (**\$2,200**) in collaboration with Dr. Islam (Department of Civil & Environmental Engineering) and Dr. Li (Department of Electrical and Computer Engineering)
- **Real-Time Structural Health Monitoring using Wireless Sensor Network for Sustainable Infrastructure**
- 2008-2012**      *School of Graduate Studies and Research at Youngstown State University funding for two Research Assistants over* (**\$10,000**)
- **Projects related to computer networks and protocols, applied security, mobile apps, and women in computer science**

## AWARDS

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- 2015** 2nd annual Latino/a Faculty Spotlight. This program is a part of events Hispanic Heritage Month. The intended is to celebrate Latino/a faculty, their pedagogy, research, accomplishments and, most importantly, their trajectory. Installations are found in the lobby of the Ronald Williams Library and the library of the El Centro campus. They will stand from October 5th through October 30, 2015.
- 2011** *Estrella de L.U.N.A. Award from Latinas United Networking Association in Ohio.*  
- This award is given to a Latina in the community that exemplifies generosity and dedication to the Hispanic community, and is committed to the Mahoning Valley through community service
- 2011** *Estrella de L.U.N.A. Award from Latinas United Networking Association in Ohio.*  
- This award is given to a Latina in the community that exemplifies generosity and dedication to the Hispanic community, and is committed to the Mahoning Valley through community service
- 2011-2012** *Research Professorship Youngstown State University*  
- Modeling and Investigating Internet's Topology
- 2009-2010** *Research Professorship Youngstown State University*  
- Bloom Filter Design for Secret Key Distribution in Peer-to-Peer Networks
- 2008-2009** *Research Professorship Youngstown State University*  
- Design and Evaluation of a Personal Secure Protocol in Computer Networks
- 2007** *Goldman Sachs Scholarship* to attend the Grace Hopper Celebration for Women in Computing Conference in 2007, Orlando FL

## FUNDING/DONATIONS

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- 2015** **AT&T NEIU Foundation gift** to support our Network Security and Applications Laboratory at El Centro. (**\$10000**)
- 2014** Student Center for Science Engagement at NEIU. Funding for three undergraduate students to do research. (**\$3000**)
- 2012** Stanford University, donated 10 NetFPGA cards (**\$16000**)
- 2008-2012** *Funding to travel to participate in the workshops, conferences, summer programs, and community meetings over (**\$25,000**)*
- 2007** Sun Microsystems Laboratories, one Sun SPOT development kit (**\$550**)  
• **Real-Time Structural Health Monitoring using Wireless Sensor Network for Sustainable Infrastructure**

## SUPERVISED VISITING RESEARCH SCHOLARS/POSTDOCS

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**Spring 2015** Dr. Eduardo Blanco: Associate Professor of Computing and Information Technology Department at Simón Bolívar University in VENEZUELA.

**2009-2010** Dr. Marlene Goncalves: Full Professor of Computing and Information Technology Department at Simón Bolívar University in VENEZUELA.

## ACADEMIC EXPERIENCE

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**2013 – Present NEIU (approximately more than 300 students)** Course teaching has focuses on applying hands on experimentation tools in the classroom for the computer networks, computer security (graduate course), cybersecurity, cryptography courses. Also, have taught programming II and Software Engineering courses.

**09/2003 - 05/2004** Research Assistant, Department of Computer Science and Engineering, University of South Florida  
Development of models to evaluate the performance of a Gnutella-compatible servant.

*Youngstown State University and University of Texas at El Paso: created instructional materials for all courses, applying since 2008 self regulating in my courses and applying the ARG model in class since 2010*

<b>Courses Taught at Youngstown State University</b>				
<b>Term</b>	<b>Course #</b>	<b>Title</b>	<b>Type</b>	<b>Size</b>
<i>Fall 2007</i>	<i>3723</i>	<i>Net. Concepts &amp; Admin</i>	<i>Undergrad</i>	<i>25</i>
	<i>3723</i>	<i>Net. Concepts &amp; Admin</i>	<i>Undergrad</i>	<i>22</i>
	<i>5895</i>	<i>Special Top: Info Assu</i>	<i>Undergrad &amp; Grad</i>	<i>15</i>
<i>Spring 2008</i>	<i>2610</i>	<i>Prog &amp; Problem Solv</i>	<i>Undergrad</i>	<i>26</i>
	<i>2610</i>	<i>Prog &amp; Problem Solv</i>	<i>Undergrad</i>	<i>24</i>
	<i>6940</i>	<i>Adv. Network Design &amp; Administration</i>	<i>Grad</i>	<i>12</i>
<i>Fall 2008</i>	<i>3723</i>	<i>Net. Concepts &amp; Admin</i>	<i>Undergrad</i>	<i>26</i>
	<i>5895</i>	<i>Special Top: Info Assu</i>	<i>Undergrad &amp; Grad</i>	<i>15</i>
	<i>6999</i>	<i>Thesis</i>	<i>Grad</i>	<i>1</i>
<i>Spring 2009</i>	<i>2610</i>	<i>Prog &amp; Problem Solv</i>	<i>Undergrad</i>	<i>21</i>
	<i>2610</i>	<i>Prog &amp; Problem Solv</i>	<i>Undergrad</i>	<i>17</i>
	<i>6996</i>	<i>Independent Study</i>	<i>Grad</i>	<i>3</i>
	<i>6999</i>	<i>Thesis</i>	<i>Grad</i>	<i>3</i>
<i>Summer 2009</i>	<i>3723</i>	<i>Net. Concepts &amp; Admin</i>	<i>Undergrad</i>	<i>11</i>
<i>Fall 2009</i>	<i>3723</i>	<i>Net. Concepts &amp; Admin</i>	<i>Undergrad</i>	<i>16</i>
	<i>6990</i>	<i>Master's CIS Project</i>	<i>Grad</i>	<i>3</i>
	<i>6996</i>	<i>Independent Study</i>	<i>Grad</i>	<i>1</i>
<i>Spring 2010</i>	<i>3723</i>	<i>Net. Concepts &amp; Admin</i>	<i>Undergrad</i>	<i>22</i>
	<i>6940</i>	<i>Adv. Network Design &amp; Administration</i>	<i>Grad</i>	<i>20</i>

	6999	Thesis	Grad	1
	6996	Independent Study	Grad	1
Fall 2010	3723	Net. Concepts & Admin	Undergrad	23
	3723	Net. Concepts & Admin	Undergrad	19
	5895J	Special Top: Net Research	Undergrad	11
	6996	Independent Study Thesis	& Grad	
	6999		Grad	1
Spring 2011	6999		Grad	2
	3723	Net. Concepts & Admin	Undergrad	20
	4890	CS Capstone	Undergrad	3
	6940	Adv. Network Design & Administration	Grad	12
	6990	Master's CIS Project	Grad	3
	6996	Independent Study	Grad	3
Summer 2011	6999	Thesis	Grad	2
	6999		Grad	1
	6999		Grad	1
Fall 2011	3723	Net. Concepts & Admin	Undergrad	20
	5895J	Special Top: Net Research	Undergrad	5
	6996	Independent Study Thesis	& Grad	
	6999		Grad	1
Spring 2012	4890	CS Capstone	Undergrad	2
	6996	Independent Study	Grad	3
<b>Courses Taught at University of Texas El Paso</b>				
<b>Term</b>	<b>Course #</b>	<b>Title</b>	<b>Type</b>	<b>Size</b>
Spring 2012	4351/5352	Computer Security	Undergrad	22
			& Grad	20
<b>TOTAL NUMBER OF STUDENTS</b>				<b>459</b>

University of South Florida

- 09/2005** Teaching Assistant for Introduction to Computers (CGS 2060),  
Department of Computer Science and Engineering, University of South Florida
- Responsibility: Assisted instructor in lab sessions, graded quizzes and projects.
  - Course size: 78 students
- 06/2005 - 08/2005** Primary instructor for Software Engineering (CEN 4020),  
Department of Computer Science and Engineering, University of South Florida
- Responsibility: Prepared, taught and graded all evaluations of the course. Students were seniors of computer engineering.
  - Course size: 35 students
- 09/2004 - 05/2005** Teaching Assistant for Introduction to Computers (CGS 2060),  
Department of Computer Science and Engineering, University of South Florida
- Responsibility: Assisted instructor in lab sessions, graded quizzes and projects.
  - Course size: 78 students
- 06/2004 - 08/2004** Primary instructor for Software Systems Development (CEN 4023),  
Department of Computer Science and Engineering, University of South Florida

- Responsibility: Prepared, taught and graded all evaluations of the course. Students were seniors of computer engineering.
- Course size: 35 students
- 06/2003 - 08/2003** Primary instructor for Visual Basic (ETG 4931), Department of Computer Science and Engineering, University of South Florida  
Responsibility: Prepared, taught and graded all evaluations of the course. Students were seniors of computer engineering, masters and PhD students from the college of engineering.
- Course size: 35 students
- 01/2003 - 05/2003** Teaching Assistant for Discrete Structures (COT 3100), Department of Computer Science and Engineering, University of South Florida
- Responsibility: Graded quizzes.
- Course size: 80 students
- 01/1996 - 12/2002** Adjunct, Department of Computing and Information Technology, University Simón Bolívar, Venezuela
- Responsibility: Primary instructor and coordinator for Introduction to computers I and II. Prepared all the material for the course and supervised teaching assistants.
- Course size: 100 students
- 04/1993 - 12/1995** Teaching Assistant for Algorithms and Data Structures, Department of Computing and Information Technology, University Simón Bolívar, Venezuela
- Responsibility: Assisted instructor in lab session, graded quizzes and projects.
- Course size: 30 students

### Invited Panels and Talks

- 2012** *Research Talk:* UTEP /Computer Science Colloquium.
- 2011** *Research Talk:* Howard University Colloquium / EE and CE Colloquium
- 2010** *Research Talk:* Denver University / Computer Science Colloquium.
- 04/19/2008** "Career Workshop," invited panelist, *YSU's 11<sup>th</sup> Annual Women in Science and Engineering Workshop*, Youngstown, Ohio, April 19, 2008.
- 03/25/2008** "The Personal Is Political," invited panelist, *Commemorating Thirty Years Of Public Celebrations Of Women's History During YSU's Centennial Year*, Youngstown, Ohio, March 25, 2008.
- 09/18/2007** "Design and Evaluation of New Search Paradigms, Power Management, and Security in Peer-to-Peer File Sharing," invited talk, *YSU's ACM Chapter*, Youngstown, Ohio, September 18, 2007.
- 06/20/2007** "Encouraging the Participation of Minorities and Underrepresented Groups in Computer Science," invited talk to the monthly meeting of the Communication Networks Group at USF (CommNet), Tampa, Florida, June 20, 2007.
- 06/10-13/2007** "The Power of External Mentors," invited panelist, *Women in Engineering Programs & Advocates Network (WEPAN) National Conference*, Orlando, Florida, June 12, 2007 (with Dr. Carol Muller, Dr. Julie Martin Trenor, Dr. Donna Reese, and Arielle Drummond).

### Invited Workshops and Conferences

- 11/16/2009** 5th Global Environment for Network Innovations Engineering (GENI) Engineering Conference, November 16-18, 2009. Salt Lake City, UT.
- 11/14/2008** Super Computing Education Program in conjunction with the International Conference for High Performance Computing (HPC), Networking, Storage and Analysis, November 14-21, 2008. Austin, TX. Funding provided by the Educational Program.
- 10/28/2008** 3rd Global Environment for Network Innovations Engineering (GENI) Engineering Conference, October 28-30, 2008. Palo Alto, CA. Funding provided by NSF.



- 10/21/2008** 38th Annual Frontiers in Education (FIE) Conference, October 21-25, 2008. Saratoga Springs, NY. *Funding provided by the University of Texas in El Paso.*
- 04/09/2008** Northeast Ohio Networking Workshop (NEONet 2008), "A Space Efficient Local Look-up Search Peer-to-Peer Protocol for Trustworthy Key Distribution". Cleveland, Ohio.
- 04/05/2008** Grant Writing and Legislative Advocacy Training Workshop, Youngstown, Ohio.
- 11/30-12/02/2007** First Annual Academic Workshop for Underrepresented Participants, College Station, Texas.
- 03/07/2006** CRA-W Career/Mentoring Workshop, Managing the Academic Career for Faculty Women at Undergraduate Computer Science and Engineering Institutions co-located with the SIGCSE 2007 conference, Covington, Kentucky.
- 02/26-27/2006** CRA scholarship for the CRA Career Workshop, Washington DC.

### Teaching Workshops

- 08/21-22/2003** Teaching Effectiveness Workshop, Center for 21st Century Teaching Excellence, University of South Florida
- 08/11-15/2003** Workshop for International Teaching Assistants, Center for 21st Century Teaching Excellence, University of South Florida

### Teaching Assistant Consultant

- 06/15-19/2005** Teaching Excellence, University of South Florida
  - Responsibilities included videotaping and feedback in teaching micro sessions. Students were future teaching assistants.
- 06/09-13/2004** Workshop for International Teaching Assistants, Center for 21st Century

## INDUSTRY EXPERIENCE

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- 02/2001 - 07/2002** Consultant part-time, National Library of Venezuela
  - Member of the committee to restructure the Information Technology Infrastructure. Evaluated software products to innovate library services.
- 01/2000 - 12/2001** Consultant part-time to CIED-PDVSA, Venezuela
  - Implementation of a search engine to store and retrieve courses using the software BRS/Search from Open Text.
  - Primary Instructor for a three-day course on how to use and develop BRS/Search applications.
- 01/1997 - 12/2002** Technical support full-time, FUNINDES-CTI, University Simón Bolívar, Venezuela
  - Maintained the version control for the decentralized public administration integrated system of Venezuela (MIDAS-USB). Currently in used by University Simón Bolívar and its development cost was estimated to be 200 million dollars.
- 06/1991 - 07/1992** Internship in PDVSA full-time, Venezuela
  - Automated the Oil Production Plan for MARAVEN.
  - Created a Contingency Plan for the Department of Informatics of PEQUIVEN.
- 06/1990 - 07/1990** Internship part-time, UNESCO office, Minister of External Affairs, Venezuela
  - Database Transcription

## PROFESSIONAL ORGANIZATIONS

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Member of ACM and IEEE

## PROFESSIONAL ACTIVITIES

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- **Organized a Scientific Session** at the 2012 SACNAS Conference on cyber security from top researcher in this area.
- **Scientific committee of the Tecnura Journal.** Tecnura is an Institutional magazine of the District University in Bogotá, Colombia. It aims to disseminate results of research projects in the area of engineering and is indexed by the Index Copernicus International.
- **Organization of talks and presentations** from Director of Computer Networks and Systems, Dr. Ty Znati from NSF. There was a recruitment talk from BBN Technologies, presenters Heidi Dempsey and Alberto Medina. Finally, Mark Allman, from International Computer Science Institute (ICSI) and also adjunct faculty in EECS at Case Western Reserve University was invited speaker
- **SAINT 2009 and 2010 Symposium Technical Committee Member of the First International Workshop on Concurrent Communications (ConCom 2009)**
- **NEONet 2009 Workshop** - Program Committee
- **Reviewer for The Handbook of Technology Management** (John Wiley & Sons, Inc.) 2008
- **Session Chair** at the Passive and Active Measurement Conference (PAM 2008), Cleveland, Ohio
- **Session Chair** at the 44th ACM Southeast Conference (ACMSE 2006), Melbourne, Florida
- **Reviewer for the IEEE Communications Letters 2006**
- **Reviewer for the International Journal of Network Management 2005**
- **Session Chair** at the 24th IEEE International Performance Computing and Communications Conference (IPCCC 2005), Phoenix, Arizona 2005
- **Academic Advisor:** Supervised internships for seven undergraduate computer engineering students. 200- 2002, Department of Computing and Information Technology, University Simón Bolívar, Venezuela.

## SERVICE ACTIVITIES

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| <b>2015</b>          | <b>NSF Panel Reviewer</b>  |
| <b>2012</b>          | <b>NSF Panel Reviewer</b>  |
| <b>2012</b>          | <b>Invited to the LASER conference (only by invitation)</b>  |
| <b>2012</b>          | <b>Invited to the NSF Distributed System Undergraduate Curriculum Workshop</b>   |
| <b>Since 03/2008</b> | <b>Youngstown State University International Advisory Council</b>  |
| <b>09-11/2007</b>    | <b>Computer Science and Information Systems Organization Committee</b> for the Professional Information Technology conference for girls in Junior High and High School (We are IT)   |
| <b>11/16/2007</b>    | <b>Organized and presented a session called "Using Google Groups to Communicate"</b> in We are IT <ul style="list-style-type: none"><li>o Session included the configuration and use of an email account (Gmail).</li><li>Also, using Google groups to establish group communication</li></ul> |
| <b>09/2007</b>       | <b>Computer Science and Information Systems Committees</b> <ul style="list-style-type: none"><li>o Honor and Scholarship, Library, and Assessment</li></ul>  |
| <b>09/2007-2008</b>  | <b>Beeghly College of Education Bachelor of Science in Education Degree Integrated business</b> <ul style="list-style-type: none"><li>o Student advisement</li></ul>   |

**2005-2007**

**Community Service Officer for the Venezuelan Student Association**

University of South Florida

- Planning and coordination of the first mentoring program for students arriving from Venezuela.
- Planning and coordination of community service activities.

**2006-2007**

**Treasurer for the Communication Networks Group at USF (CommNet)**

University of South Florida

- Maintain accurate records of all financial matters regarding purchase orders; participate in the development of annual budget and other financial issues.