

# **Manuel A. Pérez Quiñones, D.Sc.**

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## **Current Position**

**Associate Professor of Computer Science**, Virginia Polytechnic Institute and State University (Aug 2006-present)

- Teach courses in Computer Science at the undergraduate and graduate level. Created the CS 2 course in place from 2004-2008. Taught first offering of the Media Computation course at Virginia Tech. Created and taught several graduate courses in Computing (User Interface Software, Personal Information Management, and Multiple-Platform User Interfaces).
- Member of the Diversity committee in the CS department.
- Member of the Center for Human-Computer Interaction.

## **Education**

**DSc, Major: Computer Science, The George Washington University, May 1996**

- Minors: Artificial Intelligence, Psychology
- Dissertation Title: Conversational Collaboration In User-Initiated Interruption And Cancellation Requests
- Advisor: Dr. John L. Sibert
- Committee: Dr. Michael B. Feldman, Dr. Rachelle S. Heller, Dr. Deborah Hix, Dr. Robert J. K. Jacob

**MS, Computer Science, Ball State University, Muncie, IN, May 1987**

- Thesis Title: A Language for Interactive Computer Graphics Programming
- Advisor: Dr. Michael McGrew
- Committee: Dr. Clinton Fuelling, Dr. William F. Brown

**BA, Computer Science, Ball State University, Muncie, IN, May 1983**

- Minor: Foundations of Business

## **Honors and Awards**

- 2011 Dean's Award for Excellence in Service, College of Engineering, Virginia Tech
- Chair, Coalition to Diversify Computing (2010-2011); Past-Chair CDC (2011-2012)
- Invited Panelist at the Science Colloquium "Does Race and Culture Impact Hispanic American and African American Communities Access To Science and Technology Resources and Knowledge? Issues In U.S. STEM Competitiveness" part of Diversity Week Celebration, Colgate University, Hamilton, NY
- ACM Service Recognition Award for Service as Co-Chair of the Richard Tapia Celebration of Diversity in Computing Conference, 2009
- Invited Keynote Speaker, Latin-American Conference on Web Research (LA-WEB) 2008, Vittoria, Brazil, Oct 2008.
- IEEE Computer Society Distinguished Visitors Program (2008-2010)
- "Leading Research Collaborators" List, Office of the Vice President for Research, Virginia Tech, for the FY 2007 (First and Second Quarter) #36 on list
- Multi-Cultural Fellow, Office of the Vice President for Multicultural Affairs, Virginia Tech (2004-2010)
- NSF Career Award, 1999-2003
- Virginia Tech Researcher of the Week, September 8-12, 2003
- Frontiers in Education Faculty Fellow, 1999, San Juan, Puerto Rico.
- ASEE Summer Faculty Fellowship at Naval Research Laboratory (Summer 1998)
- Minority Fellowship to attend Workshop "Compiling Scheme", July 1996, Sponsored by National Science Foundation, Indiana University, and McGraw-Hill.
- Minority Fellowship to attend Workshop "Using Scheme to Understand Programming Languages", June-July 1995, Sponsored by National Science Foundation, Indiana University, and McGraw-Hill.
- Performance Award, Naval Research Laboratory, Department of the Navy, (1994)
- Performance Award, Naval Research Laboratory, Department of the Navy, (1991)

- Performance Award, Naval Research Laboratory, Department of the Navy, (1990)
- Outstanding Performance Rating and Performance Award May 1993, Naval Research Laboratory, Department of the Navy
- Alan Berman Research Publications 1992 Naval Research Laboratory for Ballas, J. A., Heitmeyer, C. L., & Pérez, M. A. (1992) Direct Manipulation and Intermittent Automation in Advanced Cockpits.
- Graduate Fellowship, Economic Development Administration, Government of Puerto Rico 1992-1995.
- Honors Fellowship, School of Engineering and Applied Sciences, The George Washington University 1987-88.
- Sigma Zeta Honorary Science Society, 1982, Ball State University.
- Golden Key National Honor Society, 1981, Ball State University.
- College of Business Dean's Honor List, Winter Quarter 1980, Ball State University.

## Research Interests

- Personal Information Management
- Human-Computer Interaction
- User interface software
- Computers in education
- Social and cultural issues in computing
- Digital Government

## Research Grants

1. NSF "BPC Pipeline: Five Year Extension." Kathleen Fisher, Andrew Bernat, Manuel A. Pérez-Quñones. Total funding: \$750,000. Funding for 1 year of CRA-W/CDC Activities. Perez-Quinones, as chair of CDC, oversees 50% of budget.
2. NIOSH/CDC "Virginia Tech OSH Research Cooperative Agreement". Funding Period: 09/01/09 - 08/31/14. Total funding: \$6,472,495; Responsibility: Perez-Quinones (co-PI) 1.31%.
3. Workshop: Student Travel Support for the CHI Mentoring Workshop. PIs: Manuel A. Pérez-Quñones, Ron Metoyer, \$11,374, NSF.
4. Human Computer Interaction Workshop: A Discipline Specific Mentoring Proposal. PIs: Ron Metoyer, Manuel A. Pérez-Quñones, \$30,000, CRA-W, Workshop to be co-located with CHI 2010, Atlanta.
5. A Proposal for Funding Student Scholarships to The Richard Tapia Celebration of Diversity in Computing Conference 2009, PIs: Manuel Pérez-Quñones, Ronald Metoyer. \$73,680, NSF BPC 2009-2010.
6. BPC-A: Widening the Research Pipeline, REU Supplement to CRA-W/CDC BPC Alliance, PIs: Lori A. Clarke, Andrew Bernat, Carla S. Ellis, Margaret Martonosi, Pamela J. Williams (Senior Personnel: M. A. Pérez-Quñones). \$1,593,910, NSF BPC 2009-2010.
7. Ensemble: Enriching Communities and Collections to Support Education in Computing. PIs: Edward Fox, Patrick Fan, Stephen Edwards (Senior Personnel: M. A. Pérez-Quñones). \$2,500,000, NSF NSDL 2008-2011, in collaboration with 6 other institutions.
8. CPATH: Collaborative Research: CPATH CB: Distributed Expertise in Enhancing Computing Education with Connections to the Arts. PIs: M. A. Pérez-Quñones, Steve Harrison, Deborah Tatar. \$120,000, NSF CPATH Sept 1, 2008 - Aug 31, 2011.
9. Understanding the Latino College Experience in Virginia. Funded by VT's Faculty Diversity Grant Program. PIs: Carlos Evia, M. A. Pérez-Quñones. \$3,000.00. May 1, 2008-April 30, 2009.
10. Stars Alliance, subcontract to UNC Charlotte BPC Alliance, D.S. McCrickard, M.A. Pérez-Quñones, NSF BPC, Sept 2007-Sept 2008, \$22,176.00.
11. Workshop: Computing Education Needs Assessment, L. Cassel, M.A. Pérez-Quñones, NSF DUE, October 1, 2007-October 1, 2008, \$50,000.00.
12. CPATH CB: Connecting Computing Educators within and outside the traditional boundaries, L. Cassell, M.A. Pérez-Quñones, S.R. Harrison, NSF CPATH, August 2007-August 2008, \$80,000.00.
13. Educational Support for Testing Graphical User Interfaces, S. H. Edwards, M. A. Pérez-Quñones, NSF CCLI-Phase 1, May 16, 2007- April 30, 2009, \$149,899.
14. Community Resources for Automated Grading, S. H. Edwards, M.A. Pérez-Quñones, C. Evia, NSF CCLI-Phase 2, August 10, 2006-August 9, 2009, \$433,844.
15. BPC Supplement: Hispanics in Digital Government: Creating a Pipeline of Hispanic Students Between Virginia Tech and the University of Puerto Rico, Mayaguez, M.A. Pérez-Quñones, A. Kavanaugh, B. Vélez-Rivera, NSF Broadening Participation in Computing Program, Supplement to Modeling Online Participation in Local Governance grant, \$51,980.
16. Interfaces for the Embodied Mind, Francis Quek, Doug Bowman, Deborah Tatr, Chris North, Woodrow Winchester, Andrea Kavanaugh, Steve Harrison, Yingen Xiong, Joseph Gabbard, Shawn Bohner, Tonya Smith-Jackson, Daniel Dunlap, Roger

- Ehrich, Edward Fox, Denis Gracanic, Debby Hix, Thomas Martin, Scott McCrickard, M.A. Pérez-Quiñones, Bill Carstensen, NSF Computing Research Infrastructure, March 15, 2006-February 28, 2007, \$206,938.
17. Beyond Human Memory: SenseCam Use in Veterinary College and as Assistive Technology, M.A. Pérez-Quiñones, E.A. Fox, Microsoft Research Digital Memories (Memex), January 1, 2006-December 31, 2006, \$49,894.
  18. Personalization of Content: Bridging the Gap Between the NSDL and its Users. M.A. Pérez-Quiñones, E.A. Fox, P. Fan, L. Cassel, NSF DUE-National Science Digital Library Program (Research Track). September 1, 2005-August 31, 2008, \$450,000.
  19. Use of a Tablet PC for Peer-Review Activities in CS1 and CS2. M.A. Pérez-Quiñones, Stephen Edwards, Microsoft Research University Relations: Tablet PC and Computing Curriculum Program, August 2005 –July 2006, \$53,926.
  20. NSF ITWF: Scholars of the Future: An Implementation Model for Increasing Diversity in Information Technology, NSF 9/15/2004-9/15/2008, PIs: J.E. Gilbert (Auburn), M.A. Pérez-Quiñones, L. Baker, D. Hendrix, \$754,983.
  21. Modeling Online Participation in Local Governance, Andrea Kavanaugh, Daniel Dunlap, Philip Isenhour, M.A. Pérez-Quiñones, NSF IIS Digital Government, Sept 2004-2007, \$550,000.
  22. NSF EIA-0312668: Web Development by Non-programmers, M.A. Pérez-Quiñones, subcontract to grant at Penn State (PI. M. B. Rosson), August 2003-July 2006, \$89,190.
  23. Research on the Use of VoiceXML Within the Context of the WebSphere Transcoding Publisher. Research Contract with IBM, January 2002-December 2003, \$50,000.
  24. Computing and Information Technology Interactive Digital Educational Library (CITIDEL). NSF DUE-National Science Digital Library program, Fox, E.A., Lee, JAN, M.A. Pérez-Quiñones, Giles, C.L., Cassel, L., Impagliazzo, J., Knox, D., August 2001-May 2005, \$835,000.
  25. Dialogue Context in Graphical User Interfaces: Representation, Uses and Portability, M.A. Pérez-Quiñones. NSF CAREER Award, 1999-2004, NSF \$216,470.
  26. Mobile Computing: Portability of User Interfaces Across Very Different Platforms, M.A. Pérez-Quiñones. UPRM R&D Center Seed Grant, 1997-1998, \$5,000.

## Publications

### Refereed Journals

1. S. Perugini, M. E. Pinney, N. Ramakrishnan, M. A. Pérez-Quiñones, M. B. Rosson (2009) Exploring Out-of-turn Interactions with Web Hierarchies, *Journal of Digital Information*, 10(4), (2009), pps. 18.
2. C. Montabert, D. S. McCrickard, W. W. Winchester, M.A. Pérez-Quiñones. An integrative approach to requirements analysis: How task models support requirements reuse in a user-centric design framework. *Interacting with Computers*, 21(4), August 2009, pp. 304-315.
3. A. Kavanaugh, B. Joon Kim, M.A. Pérez-Quiñones, Joseph Schmitz, and Philip Isenhour. Net gains in political participation: Secondary effects of internet on community. *Information, Communication, and Society*, 11(7):933–963, 2008.
4. K. Kim, S.A. Turner, and M.A. Pérez-Quiñones. Requirements for electronic note taking systems: A field study of note taking in university classrooms. *Education and Information Technologies*, 14(3), September 2009, pp. 255-283. (also published online March 2009, SpringerLink).
5. N. Ramakrishnan, M.A. Pérez-Quiñones, and A. Shenoy. Compositional specification and realization of mixed initiative web dialogs. *International Journal of Web Engineering and Technology*, 4(2):336–366, 2008.
6. S.H. Edwards and M.A. Pérez-Quiñones. Experiences using test-driven development with an automated grader. *J. Comput. Small Coll.*, 22(3):44–50, 2007.
7. S.A. Turner, M.A. Pérez-Quiñones, and Stephen H. Edwards. Effect of interface style in peer review comments for uml designs. *J. Comput. Small Coll.*, 22(3):214–220, 2007.
8. H. Vastani, S. H. Edwards, and M.A. Pérez-Quiñones. Supporting on-line direct markup and evaluation of students' projects. *Computers in Education Journal*, 16(3):88–99, September 2006.
9. R. Vatrappu and M.A. Pérez-Quiñones. Culture and international usability testing: The effects on culture in structured interviews. *Journal of Usability Studies*, 1(4):156–170, 2006.
10. M. Czerwinski, D.W. Gage, J. Gemmell, C.C. Marshall, M.A. Pérez-Quiñones, M.M. Skeels, and T. Catarci. Digital memories in an era of ubiquitous computing and abundant storage. *Commun. ACM*, 49(1):44–50, 2006.
11. S.A. Turner, M.A. Pérez-Quiñones, and S.H. Edwards. minimuml: A minimalist approach to UML diagramming for early computer science education. *J. Educ. Resour. Comput.*, 5(4):1, 2005.
12. R.G. Capra-III and M.A. Pérez-Quiñones. Using web search engines to find and refind information. *IEEE Computer*, 38(10):36–42, 2005.
13. R.H. Hartson, P. Shivakumar, and M.A. Pérez-Quiñones. Usability inspection of digital libraries: a case study. *International*

*Journal on Digital Libraries*, 4(2):108–123, 2004.

14. S.S. Everett, K. Wauchope, and M.A. Pérez-Quiñones. Creating natural language interfaces to VR systems. *Virtual Reality*, 4(1):103–113, 1999.

#### Book Chapters

1. S. Ahuja, M.A. Pérez-Quiñones, A. Kavanaugh (2009) Rethinking Local Conversations on the Web. In *Online deliberation: design, research and practice*. Eds. Tood Davies, Seeta Peña-Gangadharan, pp. 123-132, 2009. CSLI Publications.
2. A. Kavanaugh, M.A. Pérez-Quiñones, J. Tedesco and W. Sanders. (2009) Toward a Virtual Town Square in the Era of Web 2.0. In Jeremy Hunsinger, Lisbeth Klastrup and Matthew Allen (Eds.) *Handbook of Internet Research*. Surrey, UK: Springer, 2008
3. X. Yu, M. Tungare, W. Fan, Y. Yuan, M.A. Pérez-Quiñones, E.A. Fox, W. Cameron, L. Cassel. (2009) Automatic Syllabus Classification using Support Vector Machines. In *Handbook of Research on Text and Web Mining Technologies*, pp. 61-74, 2009.
4. X. Yu, M. Tungare, W. Fan, M. Pérez-Quiñones, E.A. Fox, W. Cameron, L. Cassel. (2008) Automatic Genre-specific Text Classification. In *Encyclopedia of Data Warehousing and Mining*, 2nd Edition, pp. 120-127, 2008.
5. J. Teevan, I. Robert G. Capra, and M. Pérez-Quiñones. (2007) How people find personal information. In W. Jones and J. Teevan, editors, *Personal Information Management*, pages 22–34. University of Washington Press, 2007.
6. J. Rode, M. Rosson, and M. Pérez-Quiñones. End user development of web applications. In H. Lieberman, F. Paterno, and V. Wulf, editors, *End-User Development*, pages 161–182. Kluwer Academic Publishers, 2006.
7. P. Pyla, M. Pérez-Quiñones, J. Arthur, and H. Hartson. Ripple: An event driven design representation framework for integrating usability and software engineering life cycles. In A. Seffah, J. Gulliksen, and M. Desmarais, editors, *Human-Centered Software Engineering: Integrating Usability in the Development Process*, pages 245–265. Kluwer HCI series, 2006.
8. M. Ali, M. Pérez-Quiñones, and M. Abrams. Building multi-platform user interfaces with uiml. In H. Javahery and A. Seffah, editors, *Multiple User Interfaces*, pages 95–118. John Wiley & Sons, 2004.
9. E.A. Fox, M. Goncalves, M. Luo, Y. Chen, A. Krowne, B. Zhang, K. McDevitt, M.A. Pérez-Quiñones, and L. Cassel. Harvesting: Broadening the field of distributed information retrieval. In J. Callan, F. Crestani, and M. Sanderson, editors, *Lecture Notes in Computer Science*, pages 1–20. Springer Verlag, 2003.
10. M. Pérez-Quiñones. El internet: World wide web y el correo electronico. In J. Q. de Perez and M. E. A. de Escudero, editors, *Guia de Consulta para el Personal de Oficina*, pages 534–560. Publicaciones Puertorriquenas, Inc, 2000.

#### Refereed Conference Proceedings

1. S.A. Turner, M.A. Pérez-Quiñones, S.H. Edwards, J. Chase (2011) Student Attitudes and Motivation for Peer Review in CS2. *Proceedings of the 42nd ACM Technical Symposium on Computer Science Education*, March 9-12, 2011, Dallas, Texas, USA. ACM, New York, NY.
2. J. Snyder, S.H. Edwards, M.A. Pérez-Quiñones (2011) LIFT: Taking GUI Unit Testing to New Heights. *Proceedings of the 42nd ACM Technical Symposium on Computer Science Education*, March 9-12, 2011, Dallas, Texas, USA. ACM, New York, NY.
3. S. Turner, M. A. Pérez-Quiñones, S. Edwards, and J. Chase. (2010) Peer review in CS2: conceptual learning. In *Proceedings of the 41st ACM Technical Symposium on Computer Science Education*, pp. 331-335, March 10-13, 2010, Milwaukee, Wisconsin, USA. ACM, New York, NY.
4. V. Chaube, A. L. Kavanaugh, M. A. Pérez-Quiñones (2010) Leveraging Social Networks to Embed Trust in Rideshare Programs. In *Proceedings of the 43rd Hawaii International International Conference on Systems Science (HICSS-43 2010)*, pp. 1-8, January 5-8, 2010, Koloa, Kauai, HI, USA.
5. Edwards, S. H. , Snyder, J., Pérez-Quiñones, M.A., Allevato, A., Kim, D., Tretola, B. (2009) Comparing effective and ineffective behaviors of student programmers. In ICER '09: Proc. 5th Int. Workshop on Computing Ed research, pp. 3-14, Berkeley, CA.
6. P. S. Pyla, M. Tungare, J. Holman, M. A. Pérez-Quiñones(2009) Continuous User Interfaces for Seamless Task Migration. In *Proceedings of the 13th International Conference on Human-Computer Interaction*, pp. 77-85, San Diego, CA. Springer-Verlag, Berlin, Heidelberg.
7. P. S. Pyla, H. R. Hartson, M. A. Pérez-Quiñones, J. D. Arthur, T. L. Smith-Jackson, D. Hix (2009) “How Do I Evaluate THAT?” Experiences from a Systems-Level Evaluation Effort. In *HCD 09: Proceedings of the 1st International Conference on Human Centered Design*, pp. 292-301, San Diego, CA. Springer-Verlag, Berlin, Heidelberg.
8. Allevato, A., Edwards S., and Pérez-Quiñones, M. (2009) *Dereferree: exploring pointer mismanagement in student code*. In SIGCSE '09: Proceedings of the 40th ACM technical symposium on Computer science education, pages 173–177, New York, NY, USA, 2009. ACM.
9. Allevato, A., Thornton, M., Edwards S., and Pérez-Quiñones, M. (2008) *Mining data from an automated grading and testing*

- system by adding rich reporting capabilities. In EDM '08: Proc. 1st Int'l Conf. Educational Data Mining, 2008, pp. 167-176.
10. Edwards, S. H. and Pérez-Quiñones, M.A. (2008) *Web-cat: automatically grading programming assignments*. In ITiCSE '08: Proceedings of the 13th annual conference on Innovation and technology in computer science education, pages 328–328, New York, NY, USA, 2008. ACM.
  11. Tauro, C., Ahuja, S., Pérez-Quiñones, M.A., Kavanaugh, A., and Isenhour, P. (2008) *Vizblog: Discovering conversations in the blogosphere*. In Digital Government Research Conference, University of California, Berkeley, July 2008.
  12. Pérez-Quiñones, M.A., Tungare, M., Pyla, P.S., and Harrison, S. (2008) *Personal information ecosystems: Design concerns for net-enabled devices*. In LA-WEB '08: Proceedings of the 2008 Latin American Web Conference, pp. 3-11, Vitoria, Brazil, October 28-30, 2008. IEEE Computer Society.
  13. Ahuja, S., Pérez-Quiñones, M.A., Kavanaugh, A., Tauro, C. and Kim, B.J. (2008) *Colloki: Rethinking local conversations on the web*. In Directions and Implications of Advanced Computing (DIAC) Conference, University of California, Berkeley, (June 26-28, 2008)
  14. Turner, S.A., Quintana-Castillo, R., Pérez-Quiñones, M.A., Edwards, S.H. (2008) *Misunderstandings about object-oriented design: experiences using code reviews*. SIGCSE '08: Proceedings of the 39th SIGCSE Technical Symposium on Computer Science Education, pp. 97-101. Portland, OR, USA, March 12-15, 2008.
  15. Thornton, M., Edwards, S.H., Tan, R.P., Pérez-Quiñones, M.A. (2008) *Supporting student-written tests of GUI programs*. In SIGCSE '08: Proceedings of the 39th SIGCSE Technical Symposium on Computer Science Education, pp. 537-541. Portland, OR, USA, March 12-15, 2008.
  16. Tauro, C., Ahuja, S., Pérez-Quiñones, M.A., Kavanaugh, A., Isenhour, P. (2008) *Deliberation in the Wild: A Visualization Tool for Blog Discovery and Citizen-to-Citizen Participation*. In Proceedings of the 9th Annual International Conference on Digital Government Research (dg.o2008). Montreal, Canada on May 18-21, 2008.
  17. Yu, X., Tungare, M., Fan, W., Pérez-Quiñones, M.A., Fox, E.A., Cameron, W., Cassel, L. (2008) *Using Automatic Metadata Extraction to Build a Structured Syllabus Repository*. In Proceedings of the 10th International Conference on Asian Digital Libraries. Published in Asian Digital Libraries. Looking Back 10 Years and Forging New Frontiers, Lecture Notes in Computer Science, pp. 337-346. Springer Berlin / Heidelberg.
  18. Kim, J.B., Kavanaugh, A., Pérez-Quiñones, M.A. (2007) *Toward a model of political participation among young adults: the role of local groups and ICT use*. ICEGOV '07: Proceedings of the 1st international conference on Theory and practice of electronic governance, pp. 205-212. Macao, China, ACM Press: New York, NY, USA
  19. Kavanaugh, A., Kim, H.N., Pérez-Quiñones, M., and Isenhour, P. (2007) *Models of Government Blogging: Design Trade-offs in civic engagement*. In C. Steinfield, B. Pentland, M. Ackerman, and N. Contractor (Eds.) Proceedings of the 3rd International Conference on Communities and Technologies (East Lansing, MI, June 28-30) Surrey, UK: Springer.
  20. Congleton, B., Booker, J., Vega, L.C., Kurdziolek, M., Shupp, L., Pérez-Quiñones, M.A. (2007) *CA3: collaborative annotation of audio in academia*. Proceedings of the ACM Southeast Regional Conference 2007: 461-466.
  21. Tungare, M., Pyla, P.S., Sampat, M., Pérez-Quiñones, M.A. (2007) *Syncables: A Framework to Support Seamless Data Migration Across Multiple Platforms*, Proceedings of the IEEE International Conference on Portable Information Devices (IEEE Portable), March 2007, Orlando, FL, pp. 1-5.
  22. Ravichandar, R., Arthur, J.D. and Pérez-Quiñones, M.A. (2007) *Pre-Requirement Specification Traceability: Bridging the Complexity Gap through Capabilities*, International Symposium on the Grand Challenges in Traceability (GTC '07), March 2007, Lexington KY, pp. 88-97.
  23. M. Tungare, X. Yu, W. Cameron, G. Teng, M.A. Pérez-Quiñones, E. Fox, W. Fan, L. Cassel (2007) *Towards a Syllabus Repository for Computer Science Courses*. Proceedings of the 38th SIGCSE Technical Symposium on Computer Science Education, pp. 55-59. Covington KY. ACM Press: New York, NY.
  24. S. Wahid, S. Bhatia, J. Chong Lee, M.A. Pérez-Quiñones, D.S. McCrickard (2006) *CaBN: Disparate Information Management through Context-Aware Notifications*. Proceedings of the 16th International Conference on Computer Theory and Applications. Alexandria, Egypt, Sept 5-7, 2006, pp. 46-49.
  25. B. Keller, M.A. Pérez-Quiñones, R. Vatrappu (2006) *Cultural Issues and Opportunities in Computing Education*. Proceedings of the 9th iNEER International Conference Engineering Education, San Juan, Puerto Rico, July 23-28, 2006. 6 pps.
  26. S. Edwards, M. A. Pérez-Quiñones, Matthew Phillips, Johnny RajKumar (2006) *Graphing Performance on Programming Assignments to Improve Student Understanding*. Proceedings of the 9th iNEER International Conference Engineering Education, San Juan, Puerto Rico, July 23-28, 2006. 6 pps.
  27. Andrea Kavanaugh, Than Than Zin, John M. Carroll, Joseph Schmitz, Manuel A. Pérez-Quiñones, Philip Isenhour (2006) *When Opinion Leaders Blog: New forms of citizen interaction*, ACM Proceedings of the 7th Annual Digital Government Conference. May 21-24, 2006, San Diego, California, pp. 79--88.
  28. Brandon Berry, Laurian Hobby, D. Scott McCrickard, Chris North, M.A. Pérez-Quiñones (2006) *Making a Case for HCI: Exploring Benefits of Visualization for Case Studies*, In Proceedings of the World Conference on Educational Multimedia/

- Hypermedia and Educational Telecommunications (ED-MEDIA '06), Orlando FL, June 2006, pp. 485-492.
29. M. Tungare, I. Burbey, M.A. Pérez-Quiñones (2006) *Evaluation of a Location-based Linked Notes System*. Proceedings of the 44th ACM Southeast Regional Conference, Melbourne, Florida, March 10-12, 2006. pp. 494-499.
  30. C. Chhatpar, M.A. Pérez-Quiñones (2006) *Variability of User Interaction with multi-platform news feeds*. Proceedings of the 44th Annual Southeast Regional Conference, Melbourne, Florida, March 10-12, 2006. pp. 260-264.
  31. Will Humphries, Justing Garilow, Scott Turner, Stephen H. Edwards and M.A. Pérez-Quiñones. (2006) *Helping Students Visualize Their Grade Performance*. Proceedings of the ASEE Annual Conference 2006. Chicago, IL, 11 pps.
  32. A. Powell, S. Turner, M. Tungare, M.A. Pérez-Quiñones, and S.H. Edwards. (2006) *An Online Teacher Peer Review System*. In C. Crawford et al. (Eds.), Proceedings of Society for Information Technology and Teacher Education International Conference 2006, AACE, Chesapeake, VA, pp. 126-133.
  33. Rahul Agarwal, S.H. Edwards, M.A. Pérez-Quiñones (2006) *Designing an Adaptive Learning Module to Teach Software Testing*, Proceedings of the 37th SIGCSE Technical Symposium on Computer Science Education. pp. 259 - 263.
  34. Aaron Powell and Scott Turner and Manas Tungare and M.A. Pérez-Quiñones and Stephen H. Edwards (2006) *An Online Peer Review System*. Eastern Educational Research Association 2006 Annual Conference, Hilton Head, SC, Feb 22-25, 2006.
  35. R.G. Capra, M.A. Pérez-Quiñones (2005) *Mobile Refinding of Web Information Using a Voice Interface: An Exploratory Study*. Proceedings of 2nd Latin American Conference on Human-Computer Interaction, Oct 23-26, 2005, Cuernavaca, MX. ACM Press: New York, pp. 88-99.
  36. M. A. Pérez-Quiñones, Olga I. Padilla-Falto, Kathleen McDevitt (2005) *Automatic language translation for user interfaces*. In TAPIA '05: Proceedings of the 2005 Conference on Diversity in Computing. Albuquerque, New Mexico, USA. ACM Press, New York, NY, USA, pp. 60-63.
  37. H. Vastani and S. Edwards and M.A. Pérez-Quiñones (2005) *Supporting On-line Direct Markup and Evaluation of Students' Projects*. In Proceedings of the ASEE Annual Conference 2005. June 12-15, 2005, Portland, OR.
  38. J. Rode and Y. Bhardwaj and M.A. Pérez-Quiñones and M.B. Rosson and J. Howarth (2005) *As Easy as Click: End-User Web Engineering*. In The 5th International Conference on Web Engineering (ICWE2005). July 25-29, 2005, Sydney, Australia. Available as Lecture Notes in Computer Science, Volume 3579, July 2005, Springer-Verlag GmbH, pp. 478 - 488
  39. T.L. Lewis and J. D. Chase and M.A. Pérez-Quiñones and M.B. Rosson (2005) *The Effects of Individual Differences on CS2 Course Performance Across Universities*. In Proceedings of the 36th SIGCSE Technical Symposium on Computer Science Education, pp. 426-430. ACM Press. February 23-27, 2005, St. Louis, Missouri.
  40. J. Rode and M.B. Rosson and M.A. Pérez-Quiñones (2004) *End-Users' Mental Models of Concepts Critical to Web Application Development*. In VLHCC '04: Proceedings of the 2004 IEEE Symposium on Visual Languages - Human Centric Computing (VLHCC'04), pp. 215-222. IEEE Computer Society. September 26-29, 2004, Rome, Italy.
  41. T.L. Lewis and M.A. Pérez-Quiñones and M.B. Rosson (2004) *A Comprehensive Analysis Of Object-Oriented Design: Towards A Measure Of Assessing Design Ability*. In Proceedings of ASEE/IEEE Frontiers in Education Conference, pp. S3H16-S3H21. October 20-23, 2004, Savannah, GA.
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#### Refereed Workshops, Short papers, Work-in-Progress

1. B. Hanrahan, S. Ahuja, M. A. Pérez-Quiñones, A. Kavanaugh (2011) Evaluating Software for Communities Using Social Affordances. In CHI'11: Proceedings of the 28th international conference extended abstracts on Human factors in computing systems, May 7–12, 2011, Vancouver, BC, Canada.
2. B. Hanrahan, R. Quintana-Castillo, M. Stewart and M. A. Pérez-Quiñones (2010) WikiAtoms: Contributions to Wikis as Atomic Units. Accepted at Workshop: Collective Intelligence in Organizations (CIorg). 16th ACM International Conference on Supporting Group Work (GROUP 2010), Sanibel, FL, USA. November 7-10, 2010.
3. P. S. Pyla, C. Grevet, M. Tungare, M. A. Pérez-Quiñones (2010) From Research Hypotheses to Practical Guidelines: A Proposal to Facilitate Researcher- Practitioner Interaction. In CHI '10: Proceedings of the 27th international conference extended abstracts on Human factors in computing systems, April 10-15, 2010, Atlanta, GA.
4. M. Tungare, M. A. Pérez-Quiñones, P. S. Pyla, B. Hanrahan, U. Murthy, R. Quintana-Castillo (2010) Sustainability of Bits, not just Atoms. Workshop: Examining Appropriation, Re-use, and Maintenance for Sustainability at the CHI '10: Proceedings of the 27th International Conference Extended Abstracts on Human Factors in Computing Systems, April 10-15, 2010, Atlanta, GA.
5. M. Tungare, B. Hanrahan, R. Quintana-Castillo, M. Stewart and M.A. Pérez-Quiñones (2010) Collaborative Human Computation as a Means of Information Management. In 2nd International Workshop on Collaborative Information Seeking at The 2010 ACM Conference on Computer Supported Cooperative Work. Savannah, Georgia, USA. February 6-10, 2010.
6. A. Kavanaugh, M. A. Pérez-Quiñones, J. Tedesco, W. Sanders, F. Casalegno (2009) The Use of Social Media in the Virtual Town Square. NSF Workshop on Social Media and Government, December 15-16, 2009, Washington, DC.
7. Fernandez, J., Gates, A., Ranjan, D., Pérez-Quiñones, M.A. (2009) *Panel: The Role of Department Chairs in Broadening Hispanic Participation in Computing*. In 2009 Richard Tapia Celebration of Diversity in Computing Conference, April 1-4, 2009, Portland, OR.
8. Edwards, S.H., and Pérez-Quiñones, M.A., *Web-CAT: Automatically grading programming assignments*, Proceedings of the 13th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE'08), p. 328, (2008).
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10. Ahuja, S., Pérez-Quiñones, M.A., Kavanaugh, A., Tauro, C., Kim, B.J. (2008) *Colloki: Rethinking local conversations on the web*. In Directions and Implications of Advanced Computing: Conference on Online Deliberation, 26/06/2008, University of California, Berkeley (short paper).
11. Tungare, M., Pérez-Quiñones, M.A. (2008) *Thinking Outside the (Beige) Box: Personal Information Management Beyond the Desktop*. Presented at The 3rd Invitational Workshop on Personal Information Management, PIM 2008, In CHI '08 Extended Abstracts on Human Factors in Computing Systems, Florence, Italy.
12. Dick Gayler, David Klappholz, Valerie J. Harvey, and Manuel A. Pérez-Quiñones. *UML tools: what is their role in undergraduate computer science courses?* In SIGCSE '07: Proceedings of the 38th SIGCSE technical symposium on Computer science education, pages 129–130, New York, NY, USA, 2007. ACM.
13. M.A. Pérez-Quiñones, E. Fox, L. Cassel, and W. Fan (2006) *Work in Progress - Personalizing a Course Website Using the NSDL*, Proceedings of the 36th ASEE/IEEE Frontiers in Education 2006 Conference, San Diego, CA. October 28-31, 2006.
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18. Pardha S. Pyla, Manas Tungare, Manuel A. Pérez-Quiñones (2006) "Multiple User Interfaces: Why Consistency is Not Everything, and Seamless Task Migration is Key", Workshop on The Many Faces of Consistency in Cross-Platform Design, Conference on Human-Factors in Computing (CHI), April 2-27, 2006, Montréal, Canada. (4 pages)
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  22. M.A. Pérez-Quiñones and S. Edwards and C. Anderson and D. Baldwin and J. Caristi and P.J. Wagner (2004) *Transitioning to an Objects-Early Three-Course Introductory Sequence: Issues and Experiences*. In Proceedings of the 35th SIGCSE Technical Symposium on Computer Science Education, pp. 499-500. ACM Press. March 3-7, 2004, Norfolk, VA.
  23. L.N. Cassel and J. Impagliazzo and A. Lally and E.A. Fox and M.A. Pérez-Quiñones and J. Prey (2003) *Report on the NSF Major Educational Funding Initiative for a National Science, Technology, Engineering, and Mathematics Education Digital Library (NSDL) with Special Emphasis on the Computing Education Component*. In SIGCSE '03: Proceedings of the 34th SIGCSE Technical Symposium on Computer Science Education, pp. 301-302. ACM Press. February 19-23, 2003, Reno, NV.
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  26. J. A. N. Lee, J. Impagliazzo, L. N. Cassel, E. A. Fox, C. L. Giles, D. Knox, and M. A. Pérez-Quiñones, *Enhancing distance learning using quality digital libraries and CITIDEL*, Quality Education @ a Distance, IFIP Distance Learning Conference, pp. 61-71. Deakin University, Geelong, Australia, 2003.
  27. R.G. Capra and M.A. Narayan and S. Perugini and N. Ramakrishnan and M.A. Pérez-Quiñones (2003) *The Staging Transformation Approach to Mixing Initiative*. In 18th International Joint Conference on Artificial Intelligence, Workshop on Mixed-Initiative Intelligent Systems. August 2003, Acapulco, Mexico.
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  30. R.G. Capra and M.A. Pérez-Quiñones and N. Ramakrishnan (2001) *WebContext: Remote Access to Shared Context*. In Proceedings of the 2001 Workshop on Perceptive User Interfaces, pp. 1-9. ACM Press. Orlando, FL.
  31. D.D. McCracken and M.A. Pérez-Quiñones and R. Bryant and F. Springsteel and A.L. Radimsky (2000) *Experiences in starting computer engineering programs (panel session)*. In SIGCSE '00: Proceedings of the Thirty-First SIGCSE Technical Symposium on Computer Science Education, pp. 401-402. ACM Press. March 7-12, 2000, Austin, TX.
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  35. M.A. Pérez and R.J.K. Jacob (1994) *A UIMS Architecture for Focus Processing in a Graphical User Interface*. In AAAI 1994 Spring Symposium Series: Intelligent Multi-Media Multi-Modal Systems Workshop. Stanford University, CA.

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#### Dissertation and Thesis

1. M.A. Pérez-Quiñones (1996) *Conversational Collaboration in User-Initiated Interruption and Cancellation Requests*. Doctoral Dissertation, The George Washington University, Washington DC.
2. M.A. Pérez (1987) *A Language for Interactive Computer Graphics Programming*. Master of Science, Ball State University.

#### Non-Refereed Publications (Technical Reports, others)

1. Manas Tungare, Manuel A. Pérez-Quiñones (2008) *An Exploratory Study of Calendar Use*. Technical Report Computing Research Repository (CoRR) #0809.3447. <http://arxiv.org/abs/0809.3447v1>
2. Manas Tungare, Manuel A. Pérez-Quiñones(2008) *It's Not What You Have, But How You Use It: Compromises in Mobile Device Use*. Technical Report Computing Research Repository (CoRR) #0801.4423. <http://www.citebase.org/abstract?id=oai:arXiv.org:0801.4423>
3. R.G. Capra and M. Pinney and M.A. Pérez-Quiñones (2005) *Refinding is not Finding Again*. Technical Report TR 05-10. Department of Computer Science, Virginia Tech.
4. R Vatrupu and M.A. Pérez-Quiñones (2004) *Culture and International Usability Testing: The Effects of Culture in Structured Interviews*. Technical Report cs.HC/0405045. Computing Research Repository (CoRR).
5. P.S. Pyla and M.A. Pérez-Quiñones and J.D. Arthur and R.H. Hartson (2004) *What we should teach, but don't: Proposal for a cross pollinated HCI-SE curriculum*. Technical Report cs.OH/0403026. Computing Research Repository (CoRR).
6. R.G. Capra and M.A. Pérez-Quiñones (2004) *Mobile Re-Finding of Web Information Using a Voice Interface*. Technical Report cs.HC/0402001. Computing Research Repository (CoRR).
7. Y. Bhardwaj and M. Abu-Saqer and M.A. Pérez-Quiñones (2004) *General Interface Description of Websites using CLICK and UIML*. Technical Report TR 04-37. Dept. of Computer Science, Virginia Tech.
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13. K. Kim and S. Turner and M.A. Pérez-Quiñones (2004) *Comparing Classroom Note Taking across Multiplatform Devices*. Technical Report TR 04-23. Dept. of Computer Science, Virginia Tech.
14. J. Rode and J. Howarth and M.A. Pérez-Quiñones and M.B. Rosson (2004) *An End-User Development Perspective on State-of-the-Art Web Development Tools*. Technical Report TR-05-03. Department of Computer Science, Virginia Tech.
15. M.A. Pérez-Quiñones and J. Rode (2004) *You've Got Mail! Calendar, Weather and More: Customizable Phone Access to Personal Information*. Technical Report TR 04-21. Department of Computer Science, Virginia Tech.
16. K. McDevitt and M.A. Pérez-Quiñones and O.I. Padilla-Falto (2003) *Designing of a Community-based Translation Center*. Technical Report cs.HC/0312010. Computing Research Repository (CoRR).
17. A. Shenoy and N. Ramakrishnan and M.A. Pérez-Quiñones (2003) *Supporting Out-of-turn Interactions in a Multimodal Web Interface*. Technical Report cs.IR/0307011. Computing Research Repository (CoRR).
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19. R.G. Capra and M.A. Pérez-Quiñones (2003) *Re-Finding Found Things: An Exploratory Study of How Users Re-Find Information*. Technical Report cs.HC/0310011. Computing Research Repository (CoRR).
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21. P. Shivakumar and H.R. Hartson and M.A. Pérez (2002) *Usability Inspection Report of iLumina*. Technical Report TR-02-20. Department of Computer Science, Virginia Tech.
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  25. Z. Shao and R.G. Capra and M.A. Pérez-Quiñones (2002) *Annotations for HTML to VoiceXML Transcoding: Producing Voice WebPages with Usability in Mind.* Technical Report cs.HC/0211037. Computing Research Repository (CoRR).
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  31. M.A. Pérez-Quiñones (1995) *Computational Pragmatics in HCI: Using Dialog Context in a Multimodal Application.* AIC Technical Report AIC-95-028. Navy Center for Applied Research in Artificial Intelligence, Naval Research Laboratory.
  32. A. Rose and M.A. Pérez and P. Clements (1994) *The Modechart Toolset User Guide.* Technical Memo MR/5540-94-7427. Naval Research Laboratory.
  33. R. Darken and M.A. Pérez (1993) *Navigational Techniques for Large Directed Graphs.* Technical Report GWU-IIST-93-11. The George Washington University, Washington, D.C.
  34. J.A. Ballas and C.L. Heitmeyer and M.A. Pérez-Quiñones (1992) *Direct Manipulation and Intermittent Automation in Advanced Cockpits.* Technical Report 9375. Naval Research Laboratory, Washington, D. C.
  35. M.A. Pérez and M. Ruiz-Camatiér and M.B. Feldman (1992) *Use of Interesting Events for Separation of User Interface and Application Code in SmallAda.* Technical Report GWU-IIST-92-15. The George Washington University, Washington, D.C.

#### **Presentations at Conferences, Lectures, Workshops, Short Talks**

1. “Latinos in Virginia: Demographics,” keynote presentation (with Dr. Carlos Evia) at the 1st Latino Constituency Conference and 3rd Encuentro de VALHEN, Virginia Tech, Blacksburg, VA, May 1st, 2009.
2. “Understanding Latino Students: A Look at the Commonwealth and the Nation,” presentation (with Dr. Carlos Evia) at the Academic Advising and Support Afternoon Chat Series, Virginia Tech, Blacksburg, VA, April 15th, 2009.
3. “The U.S. Must Embrace Becoming a Multi-Cultural Society,” presentation at “Does Race and Culture Impact Hispanic American and African American Communities Access To Science and Technology Resources and Knowledge? Issues In U.S. STEM Competitiveness” Panel, Colgate University, Hamilton, NY, sSeptember 18, 2009.
4. Invited Panelist at NSF-funded Academic Workshop for Underrepresented Faculty and Senior Graduate Students, 11/30/07 – 12/2/07, Texas A&M.
5. “Social Software and Education”, Presentation at Workshop CB CPATH: Rethinking Computer Science Education, Villanova University, Nov 9th, 2007.
6. “Using Web 2.0 Technologies in your Computer Science Classes”, Presentation at Workshop of the same name at the 39th SIGCSE Technical Symposium on Computer Science Education, Portland, OR, March 14th, 2008.
7. “Task Continuity Across Multiple Devices: Examples from Calendar Management”, School of Information and Library Science, University of North Carolina at Chapel Hill, April 22, 2005.
8. “Cultural Interface Design”, Computer Science Department, Eastern Michigan University, March 2005.
9. “Yet Another Approach on How to Teach OO Design Early in Computer Science”, Computer Science Seminar Series, Villanova University, November 24, 2003.
10. “Multi-platform User Interfaces”, AI Center Spring Seminar Series, Naval Research Laboratory, May 5, 2003.
11. “Mixed-Initiative Interaction = Mixed Computation”, Ramakrishnan, N., Capra, R., Pérez-Quiñones, M.A. Presentation at the CS Department Seminar Series, October 24, 2001.
12. “Hispanics in the Academic Environment in the US”, Invited presentation at the “CHI 2001 Development Consortium: Latin American.”
13. “Hispanics in the Academic Environment in the US”, Presentation at Multicultural center during Hispanic Heritage Month Brown Bag Faculty Exposé at the Multicultural Center, part of the activities for Hispanic Heritage Month 2001. Sponsored by Latin Link. October 4, 2001.

14. "Advanced User Interface Software Architectures: Towards a Full-Participant Dialogue Partner", Dept. of Computer Science, University of Texas at El Paso, January 2000.
15. "Java's Reflection API," Dept. of Computer Science, University of Texas at El Paso, January 2000.
16. "Advanced User Interface Software Architectures: Towards a Full-Participant Dialogue Partner", Dept. of Computer Engineering and Computer Science, University of Missouri-Columbia, Nov 4, 1999.
17. "A Conversational View of Human-Computer Interaction", Western Puerto Rican Linguistic Society, April 2, 1997, Mayagüez, Puerto Rico.
18. "HCI Education and Research at the University of Puerto Rico-Mayagüez", Organizational Overviews, Conference in Human Factors in Computing Systems CHI'97, March 26, Atlanta, GA.
19. "A Collaborative Model of Feedback in Human-Computer Interaction", Conference in Human Factors in Computing Systems CHI'96, April 14-19, Vancouver, BC.
20. "Negotiating User-Initiated Cancellation and Interruption Requests", Conference in Human Factors in Computing Systems, CHI'96, April 14-19, Vancouver, BC.
21. "Conversational Dialogue in Graphical User Interfaces", Human Factors in Computing Systems CHI'95 Conference Doctoral Consortium, May 7-11, 1995, Denver, Colorado.
22. "Human-Computer Dialogue in a Graphical User Interface", Computer Science Department Research Seminar Series, United States Naval Academy, Annapolis, Maryland. April 1995.
23. "The Development of GW-Ada", 13th Annual National Conference on Ada Technology, King of Prussia, Pennsylvania. March 1995.
24. "Interacción entre el Humano y la Computadora", Colloquium, Departamento de Matemáticas, Recinto de Mayagüez, Universidad de Puerto Rico. December 1992.
25. "Direct Manipulation for the Intelligent Cockpit", Software Psychology, Washington, D.C. December 1992.
26. "Direct Manipulation for the Intelligent Cockpit", Graphics and User Interface Group Colloquium, The George Washington University, D. C. Spring 1992.
27. "MacApp: An Application Framework", Graphics and User Interface Group Colloquium, The George Washington University, D. C. Fall 1989.
28. "Experimental Design: Direct Manipulation Theory", Graphics and User Interface Group Colloquium, The George Washington University, D. C. Spring 1991.
29. "Designing User Interfaces with MacApp", Guest Speaker, Human-Computer Interaction Lab, Naval Research Laboratory, D. C. Winter 1989.
30. "The MacApp Report", Conference Faculty in the Mac World Exposition, Washington, D.C. April 1989.
31. "Language for Computer Graphics Programming", Computer Science Department Colloquium, Ball State University, Muncie, IN. Spring 1986.

#### **Session Chair, Workshop Participation, Others**

1. Lead organizer "Using Web 2.0 Technologies in your Computer Science Classes", Workshop at the 39th SIGCSE Technical Symposium on Computer Science Education, Portland, OR, March 14th, 2008.
2. Session Chair for Keynote Speaker Paul Dourish, Latin American Conference on HCI, Cuernavaca, MX, Oct 23-26, 2005.
3. Session Chair, "Sensible Navigation Search" April 4th, CHI 2001, Seattle WA
4. Invited to participate in Workshop: Latin America Development Consortium, CHI 2001, Mar 30-Apr 4, Seattle, WA
5. Invited to participate in Workshop: CHI 10 Year View, Human Factors in Computing Systems CHI'96, April 14-19, Vancouver, BC.

#### **Videos**

1. S.S. Everett and K. Wauchope and M.A. Pérez (1997) *A Spoken Language Interface to a Virtual Reality System (Video)*. In Proceedings of the Fifth Conference on Applied Natural Language Processing, pp. 36-37. Morgan Kaufmann Publishers Inc. Washington, DC.

#### **Undergraduate Student Papers**

1. Vargas, Iomar, Arzuaga, Emmanuel & Pérez-Quñones, M.A. (advisor). (1998) "Using virtual reality, 3D modeling and the WWW to explore power plants in Puerto Rico", Puerto Rico Jr. Technical Meeting, Mayagüez, PR.
2. Ramirez Morell, Juan Antonio & Pérez-Quñones, M.A. (advisor). (1998) "SmallScheme, a Scheme Interpreter Written in Java", Presented at CRC 98, University of Puerto Rico-Mayagüez.
3. Ramirez Morell, Juan Antonio & Pérez-Quñones, M.A. (advisor). (1998) "Experiences using Java to build interpreters", Puerto Rico Jr. Technical Meeting, Mayagüez, PR.
4. Avilés, Evelyn, & Pérez-Quñones, M.A. (advisor) (1997) "Remote Collaboration with Direct Manipulation Interaction", Presented at CRC 97, University of Puerto Rico-Mayagüez.

5. Avilés, Evelyn, Nogueras, Reynaldo, Nogueras, Jorge R., Román, Carlos, & Pérez-Quñones, M.A. (advisor) (1997) "Web-based Network Manager", Puerto Rico Jr. Technical Meeting, Bayamón, PR.
6. González Quesada, Glady, Tirado Padilla, Sandra & Pérez-Quñones, M.A. (advisor) (1997) "Using a PDA to Collect Tree Inventory Data at the Mayagüez Campus", Puerto Rico Jr. Technical Meeting, Bayamón, PR.
7. Viera-Vera, Michelle, Lugo-Beauchamp, Wilfredo, & Pérez-Quñones, M.A. (advisor) (1997) "Portability of User Interfaces Across Platforms", Puerto Rico Jr. Technical Meeting, Bayamón, PR.
8. Pérez-Perfecto, Omar E., & Pérez-Quñones, M.A. (advisor) (1997) "Route Finder for Tren Urbano", Puerto Rico Jr. Technical Meeting, Bayamón, PR.
9. Pérez-Perfecto, Omar E., & Pérez-Quñones, M.A. (advisor) (1997) "Route Finder for Tren Urbano", Meeting Tren Urbano, Recinto Universitario de Mayagüez, PR., Enero 8, 1998

#### **Web Sites Established (and currently managed by me)**

1. Coalition to Diversify Computing (<http://cdc-computing.org/>)
2. Blacksburg New School (<http://new-school.org>)
3. Center for Human-Computer Interaction (<http://hci.vt.edu/>)
4. Virginia Latino Higher Education Network (<http://valhen.org/>)
5. Personal website (<http://perez.cs.vt.edu/>)
6. Virginia Tech Undergraduate Research in Computer Science (VTURCS), established, no longer managed by me; available at (<http://vturcs.cs.vt.edu/>)
7. Frequently Asked Questions, Dept. of Computer Science, available at <http://www.faq.cs.vt.edu/> (out of date)
8. Puerto Rico Online Educational Software Initiative, offline since my move to VT

#### **Software Developed and Distributed**

1. minimUML - a UML tool for CS Education designed to be easy to use. It includes support for classes and relations among classes. It also provide support for free form comments and notes as well as export to PNG, JPG, Java and C++. Developed by several of my students. Available at <http://minimuml.cs.vt.edu/>
2. SmallAda - Development of full programming environment for SmallAda. Environment includes source code editor with templates, multi-window source level debugger, and interpreter. SmallAda was distributed free by The George Washington University as a vehicle for teaching, learning, and experimenting with concurrent programming.
3. GWU/Mac AdaEd - Designed and implemented on the Macintosh a development environment for the Ada programming language. Environment includes Ada-83 compiler/interpreter (originally developed at NYU), editor, library manager, and execution monitor. This development environment was used at George Washington University as a vehicle for teaching, learning, and experimenting with concurrent programming.

## **Students Advised**

#### **PhD advisees (in progress)**

1. Ricardo Quintana-Castillo, completed qualifiers.
2. Ben Hanrahan, pre-qualifiers.

#### **PhD students supervised (completed)**

1. Scott Turner, Peer Review in CS2: The Effects on Attitudes, Engagement, and Conceptual Learning, PhD. Department: Computer Science. 2009-08-13. Stephen H. Edwards, Deborah Tatar, Joe Chase, Michael Evans.
2. Tungare, Manas. Mental Workload in Personal Information Management: Understanding PIM Practices Across Multiple Devices, PhD. Department: Computer Science. 2009-03-25. Edward A. Fox, Stephen H. Edwards, Steven R. Harrison, Tonya L. Smith-Jackson. Employment: Software Engineer, Search User Interfaces, Google.
3. Capra, Robert G. An Investigation of Finding and Refinding Information on the Web, PhD. Department: Computer Science. 2006-02-16. Committee: Naren Ramakrishnan, Rex Hartson, Dan Dunlap, David Novick. Employment: Post-Doctoral Fellow/Adjunct Professor, University of North Carolina, Chapel Hill.
4. Rode, Jochen. Web Application Development by Nonprogrammers: User-Centered Design of an End-User Web Development Tool, PhD. Department: Computer Science. 2005-07-01. Committee: Stephen Edwards, Naren Ramakrishnan, Mary Beth Rosson, Loren P. Rees. Employment: Senior Researcher/Project Manager, SAP AG.
5. Ali, Mir Farooq. A Transformation-based Approach to Building Multi-Platform User Interfaces Using a Task Model and the User Interface Markup Language, PhD. Department: Computer Science. 2004-11-16. Committee: Scott McCrickard, Naren Ramakrishnan, Marc Abrams, Scott Midkiff. Employment: Motorola.

6. Lewis, Tracy L.. Design Readiness: An Exploratory Model of Object-Oriented Design Performance, PhD. Department: Computer Science. 2004-07-16. Committee: Stephen Edwards, Mary Beth Rosson, Joseph D. Chase, David Tegarden, Helen J. Crawford, Wanda J. Smith. Employment: Assistant Professor, Radford University.

#### **MS Thesis advisees (in progress)**

1. Edgardo Vega, completion date Spring 2011.

#### **MS Thesis Supervised at Virginia Tech (completed)**

1. James Henry. Subiquitous: Supporting Ubiquitous Computing. MS. Department: Computer Science. 2010-04-29. Committee: Stephen H. Edwards, Steve R. Harrison.
2. Sameer Ahuja. A Tale of Two Sites: An Explorative Study of the Design and Evaluation of Social Network Sites. MS. Department: Computer Science. 2009-07-17. Committee: Andrea L. Kavanaugh, Stephen Edwards.
3. Tauro, Candida. A Usability Evaluation and Content Analysis of Vizblog: an Online Conversation Discovery Tool, MS. Department: Computer Science. 2008-04-23. Committee: Andrea L. Kavanaugh, Dan Dunlap.
4. Lambros, Stelios. Investigating the Applicability of Information Foraging Theory to Mobile Web Browsing, MS. Department: Computer Science. 2005-05-27. Committee: Deborah Tatar, Dan Dunlap.
5. Bhardwaj, Yogita. Reverse Engineering End-user Developed Web Applications into a Model-based Framework, MS. Department: Computer Science. 2005-05-09. Committee: Chris North, Marc Abrams.
6. Turner, Scott Alexander. minimUML: A Minimalist Approach to UML Diagramming for Early Computer Science Education, MS. Department: Computer Science. 2005-02-04. Committee: Stephen Edwards, Chris North.
7. Vatrapu, Ravikiran. Culture and International Usability Testing: The Effects of Culture in Interviews, MS. Department: Computer Science. 2002-08-06. Committee: Doug A. Bowman, Mary Beth Rosson.

#### **MS Thesis Supervised at UPRM (completed)**

1. Jaime Elias Colón, May 2000
2. Jesús Trespalacios, May 1999
3. Miguel Velez-Rubio, May 2000
4. Anibal Morales-Morell, Fall 2000

#### **Thesis and dissertation committee participation (in progress)**

1. Jason Lee. Dissertation, Department of Computer Science.
2. Ingird Burbey. Dissertation, Department of Electrical and Computer Engineering.
3. David Kleppinger. Dissertation, Department of Electrical and Computer Engineering.
4. Ji-Sun Kim. Dissertation, Department of Computer Science.
5. Uma Murthy. Dissertation, Department of Computer Science.
6. Solomon Gifford. Dissertation, Department of Computer Science.
7. Seth Leon Darden. Master's Thesis, Department of Computer Science.
8. Nouf M. Alaloula. Master's Thesis, Department of Computer Science.

#### **MS Independent Studies Supervised (completed)**

1. Szu-Chia Lu, (co-chair with Andrea Kavanaugh) Summer 2010.
2. Ben Congleton, May 2007.
3. George Luc, May 2006.
4. Scott Preddy, TIDE with Task Models and Generic Models, December 2003.
5. Natthapol Wongsaroj, Mixed-initiative dialogs for browsing tree-based structure information, May 2003.
6. Natasha Dannenberg, Browsing "My Yahoo" Type Web Pages via the Phone, May 2002.
7. Babak Golabian, Voice Interfaces for WebPages, Summer 2001.
8. Eric Shell, Transformation Integrated Development Environment (TIDE), December 2001.
9. Scott Masterson, U.S. Coast Guard Vessel Inspection Program for PalmOS Devices: A User-Centered Approach, Dec 2001.

#### **Dissertation committee participation (completed)**

1. Sonja Gievska, Dissertation, "A Conceptual Framework for Selecting the Most Appropriate Timing for Interrupting People during Human-Computer Interaction." Committee member at The George Washington University
2. Wingrave, Chadwick A. Concept-Oriented Design in Chasm: Conversational Domain Language Inspired 3D User Interface Design and Development, PhD. Department: Computer Science. 2008-07-11. Advisor: Doug A. Bowman. Committee: Godmar Back, Manuel A. Pérez-Quñones, Carlos Evia, Robert Jacob.

3. Ravichandar, Ramya. Capabilities Engineering: Promoting Change-Reduction and Constructing Change-Tolerant Systems, PhD. Department: Computer Science. 2008-05-07. Advisor: James Arthur. Committee: Shawn Bohner, Manuel A. Pérez-Quiñones, David Tegarden, Robert P. Broadwater.
4. Pyla, Pardha S. Connecting the usability and software engineering life cycles through a communication-fostering software development framework and cross-pollinated computer science courses, PhD. Department: Computer Science. 2007-09-10. Advisor: Rex Hartson. Committee: James Arthur, Manuel A. Pérez-Quiñones, Tonya Smith-Jackson, Debby Hix.
5. Tan, Roy Patrick. Programming Language and Tools for Automated Testing, PhD. Department: Computer Science. 2007-08-08. Advisor: Stephen Edwards. Committee: James Arthur, Manuel A. Pérez-Quiñones, Naren Ramakrishnan, David Tegarden.
6. Richardson, W. Ryan. Using Concept Maps as a Tool for Cross-Language Relevance Determination, PhD. Department: Computer Science. 2007-06-06. Advisor: Ed Fox. Committee: Manuel A. Pérez-Quiñones, Naren Ramakrishnan, Ben Cline, David Tegarden.
7. Sidky, Ahmed Samy. A Structured Approach to Adopting Agile Practices: The Agile Adoption Framework, PhD. Department: Computer Science. 2007-05-24. Advisor: James Arthur. Committee: Osman Balci, Shawn Bohner, Manuel A. Pérez-Quiñones, Linda Wallace.
8. Burge, Jamika D. Communication of Emotion in Mediated and Technology-Mediated Contexts: Face-to-Face, Telephone, and Instant Messaging, PhD. Department: Computer Science. 2007-04-23. Advisor: Deborah Tatar. Committee: Roger W. Ehrich, Andrea L. Kavanaugh, Manuel A. Pérez-Quiñones, Tonya Smith-Jackson.
9. Howarth, Jonathan Randall. Supporting Novice Usability Practitioners with Usability Engineering Tools, PhD. Department: Computer Science. 2007-04-13. Advisor: Rex Hartson. Committee: Andrea L. Kavanaugh, Manuel A. Pérez-Quiñones, Tonya Smith-Jackson, Terence Andre.
10. Kim, Kibum. The Effects of Handheld Network Service “Look” on the Acquisition of Common Ground, PhD. Department: Computer Science. 2007-01-12. Advisor: Deborah Tatar. Committee: Steve Harrison, Manuel A. Pérez-Quiñones, Francis Quek, Charles M. Patton.
11. Chen, Jian. Design and Evaluation of Domain-Specific Interaction Techniques in the AEC Domain for Immersive Virtual Environments, PhD. Department: Computer Science. 2006-10-25. Advisor: Doug A. Bowman. Committee: Chris North, Manuel A. Pérez-Quiñones, R. Bowen Loftin, Walid Y. Thabet.
12. Ball, Robert Glenn. Effects of Large, High-Resolution Displays for Geospatial Information Visualization, PhD. Department: Computer Science. 2006-08-14. Advisor: Chris North. Committee: Doug A. Bowman, Manuel A. Pérez-Quiñones, George G. Robertson, L. Bill Carstensen.
13. Shen, Rao. Applying the 5S Framework To Integrating Digital Libraries, PhD. Department: Computer Science. 2006-04-17. Advisor: Ed Fox. Committee: Chang-Tien Lu, Manuel A. Pérez-Quiñones, Weiguo Fan, Joanne D. Eustis.
14. Perugini, Saverio. Program Transformations for Information Personalization, PhD. Department: Computer Science. 2004-05-14. Advisor: Naren Ramakrishnan. Committee: Ed Fox, Manuel A. Pérez-Quiñones, Mary Beth Rosson, A. Lynn Abbott.
15. DePasquale III, Peter Joseph. Implications on the Learning of Programming Through the Implementation of Subsets in Program Development Environments, PhD. Department: Computer Science. 2003-07-17. Advisor: John A.N. Lee. Committee: James Arthur, John A. Lewis, Manuel A. Pérez-Quiñones, Joseph D. Chase.
16. Phanouriou, Constantinos. UIML: A Device-Independent User Interface Markup Language, PhD. Department: Computer Science. 2000-09-26. Advisor: Marc Abrams. Committee: Stephen Edwards, Manuel A. Pérez-Quiñones, Mary Beth Rosson, Robert C. Williges.

#### **MS Thesis committee participation (completed)**

1. Vineeta Chaube, Understanding Perceptions of Trust in a Software Application that Integrates Social networks and Collaboration, MS. Department: Computer Science. 2010-07-30. Advisor: Andrea Kavanaugh, Committee: Scott McCrickard, Manuel A. Pérez-Quiñones.
2. Schaefer, Matthew R., On PlaceMark: Collaborative Authoring, Place, and Identity, MS. Department: Computer Science. 2009-06-26. Advisor: Deborah Tatar, Committee: Steve Harrison, Manuel A. Pérez-Quiñones.
3. Hardy, Robert Stafford, Cheating in Multiplayer Video Games, MS. Department: Computer Science. 2009-04-15. Advisor: Steve Harrison. Committee: Deborah Tatar, Manuel A. Pérez-Quiñones.
4. Jones, Caleb Bradley. Virtual Community Orientation Project, MS. Department: Computer Science. 2008-06-12. Advisor: Steve Harrison. Committee: Manuel A. Pérez-Quiñones, Deborah Tatar.
5. Sampat, Miten. Enabling Locative Experiences, MS. Department: Computer Science. 2007-12-04. Advisor: Scott McCrickard. Committee: Steve Harrison, Manuel A. Pérez-Quiñones, Francis Quek.
6. McMahan, Ryan Patrick. Exploring and Evaluating Task Sequences for System Control Interfaces in Immersive Virtual Environments, MS. Department: Computer Science. 2007-06-04. Advisor: Doug A. Bowman. Committee: Chris North, Manuel A. Pérez-Quiñones.

7. Badillo, Brian Elvis. Migrating Three Dimensional Interaction Techniques, MS. Department: Computer Science. 2007-04-23. Advisor: Doug A. Bowman. Committee: Scott McCrickard, Manuel A. Pérez-Quiñones.
8. Zietz, Jason. Activity-based Knowledge Management Tool Design for Educators, MS. Department: Computer Science. 2006-08-07. Advisor: Dan Dunlap. Committee: Roger W. Ehrich, Manuel A. Pérez-Quiñones.
9. Vidya Sagar, Vikram Raj. A Digital Library Success Model for Computer Science Student Use of a Meta-Search System, MS. Department: Computer Science. 2006-08-04. Advisor: Ed Fox. Committee: Manuel A. Pérez-Quiñones, Weiguo Fan.
10. Montabert, Cyril. Supporting Requirements Reuse in a User-centric Design Framework through Task Modeling and Critical Parameters, MS. Department: Computer Science. 2006-05-16. Advisor: Scott McCrickard. Committee: Manuel A. Pérez-Quiñones, Woodrow Winchester.
11. Krishnamoorthy, Sujatha. Designing Interactive Visualizations for First-time Novice Users, MS. Department: Computer Science. 2005-11-09. Advisor: Chris North. Committee: Scott McCrickard, Manuel A. Pérez-Quiñones.
12. Schneider, Thomas W. A Voice-based Multimodal User Interface for VTQuest, MS. Department: Computer Science. 2005-05-06. Advisor: Osman Balci. Committee: Shawn Bohner, Manuel A. Pérez-Quiñones.
13. Catanzaro, Christopher David. Vizability: Visualizing Usability Evaluation Data Based on the User Action Framework, MS. Department: Computer Science. 2005-04-28. Advisor: Chris North. Committee: Manuel A. Pérez-Quiñones, Rex Hartson.
14. Berry, Brandon. VaDeR: Visualizing a Development Record A Study of Claims-Centric Scenario-Based Design, MS. Department: Computer Science. 2004-06-21. Advisor: Scott McCrickard. Committee: Chris North, Manuel A. Pérez-Quiñones.
15. Vastani, Hussein Kamaluddin. Supporting Direct Markup and Evaluation of Students' Projects On-line, MS. Department: Computer Science. 2004-06-11. Advisor: Stephen Edwards. Committee: Chris North, Manuel A. Pérez-Quiñones.
16. Allgood, Christian. The Claims Library Capability Maturity Model: Evaluating a Claims Library, MS. Department: Computer Science. 2004-06-11. Advisor: Scott McCrickard. Committee: Osman Balci, Manuel A. Pérez-Quiñones.
17. Howarth, Jonathan R. An Infrastructure to Support Usability Problem Data Analysis, MS. Department: Computer Science. 2004-05-06. Advisor: Rex Hartson. Committee: Manuel A. Pérez-Quiñones, Mary Beth Rosson.
18. Swartz, Kent Olen. Virtual Environment Usability Assessment Methods Based on a Framework of Usability Characteristics, MS. Department: Computer Science. 2003-08-27. Advisor: Debby Hix. Committee: Manuel A. Pérez-Quiñones, Ronald D. Kriz.
19. Shenoy, Atul. A Software Framework for Out-of-turn Interaction in a Multimodal Web Interface, MS. Department: Computer Science. 2003-06-16. Advisor: Naren Ramakrishnan. Committee: Manuel A. Pérez-Quiñones, Srinidhi Varadarajan.
20. Holbrook, Chuck. Input Methods for Notification Systems: A design analysis technique with a focus on input for dual-task situations, MS. Department: Computer Science. 2003-06-13. Advisor: Scott McCrickard. Committee: Chris North, Manuel A. Pérez-Quiñones.
21. Mahajan, Reenal R. Usability Problem Diagnosis tool: Development and Evaluation, MS. Department: Computer Science. 2003-06-10. Advisor: Rex Hartson. Committee: Chris North, Manuel A. Pérez-Quiñones.
22. Kodiyalam, Narayanan Gopalakrishnan. Remote Usability Evaluation Tool, MS. Department: Computer Science. 2003-05-19. Advisor: Rex Hartson. Committee: Scott McCrickard, Manuel A. Pérez-Quiñones.
23. Saini, Varun. Visualization Schemas: A User Interface Extending Relational Data Schemas for Flexible, Multiple-View Visualization of Diverse Databases, MS. Department: Computer Science. 2003-04-28. Advisor: Chris North. Committee: Ed Fox, Manuel A. Pérez-Quiñones.
24. Colaso, Vikrant. A Usability Problem Inspection Tool: Development and Formative Evaluation, MS. Department: Computer Science. 2003-04-18. Advisor: Rex Hartson. Committee: Scott McCrickard, Manuel A. Pérez-Quiñones.
25. Schoenhoff, Peter Klaus. Belbin's Company Worker, The Self-Perception Inventory, and Their Application to Software Engineering Teams, MS. Department: Computer Science. 2001-12-11. Advisor: Sallie Henry. Committee: Stephen Edwards, Manuel A. Pérez-Quiñones.
26. Zafer, Ali Asghar. NetEdit: A collaborative Editor, MS. Department: Computer Science. 2001-04-23. Advisor: Clifford A. Shaffer. Committee: Roger W. Ehrich, Manuel A. Pérez-Quiñones.

#### **Undergraduate research projects supervised (VTURCS project participation)**

1. Jason Fields, Phone User Interface to Access Email. VTURCS Spring Symposium 2002, tied Faculty Award 3rd place.
2. Travis Cherry, Extending the Reach of a Course Website: Anytime, Anywhere Access, VTURCS Spring Symposium 2003, Faculty Choice 2nd place, Industry Choice 3rd place, People's Choice 3rd place.
3. Dustin L. Arendt, Joseph C. Giacalone, Russell J. Hewett, VTURCS Spring Symposium 2003.
4. Amit Nithian, A Voice Interface for Remote Control of Home Appliances, VTURCS Spring Symposium 2004, People's Choice 3rd place.
5. Travis Cherry, Managing Courses with CourseSite: The Professor's Perspective, VTURCS Spring Symposium 2004, Industry Choice, 3rd place.

6. Jed Lake, Alyssa Sams, CITIDEL Online Digital Library, VTURCS Spring Symposium 2004.
7. Joseph Lanza, Iana Bakalova, The CS Connection: VT Brain, VTURCS Spring Symposium 2005.
8. Caleb Jones, Brent Robinson, Joseph Lanza, Iana Bakalova, The CS Connection: Faculty Finder, VTURCS Spring Symposium 2005.
9. Chris Eagan, Joseph Lanza, Iana Bakalova, 6th Floor McBryde Plasma Display, VTURCS Spring Symposium 2005.
10. Alyssa Sams, Personal Calendar Management in Multi-Platform User Interfaces, VTURCS Spring Symposium 2005.
11. Logan Sease, Justin Klemm, Justin Knapp, Pamela Schoffstall, Robert Hardy, Andrew Ball, Pervasive Personal Information Management, VTURCS Spring Symposium 2005, People's Choice 3rd place.
12. Blake Sawyer, Michael Ziray. Large Screen Public Kiosk. VTURCS Spring Symposium 2006, Industry Choice 3rd Place.
13. Jaime Garcia Ramirez, Advisors: Manuel A. Pérez Quiñones, Stephen Edwards, Scott Turner. minimUML - A Minimalist Approach to UML diagrams, VTURCS Spring Symposium 2006, Faculty Choice 2nd place.
14. Tarish Smith, Idris Eltahir, Advisors: Ricardo Quintana-Castillo, Dr. Manuel A. Pérez Quiñones, Dr. Stephen Edwards. CATspace: Using Facebook to Share Assignments Among Professors. VTURCS Spring Symposium 2008, People Choice 1st place.
15. Patrick Fiaux, Spring 2009.

## Teaching

### **Assistant/Associate Professor, Department of Computer Science, Virginia Tech**

1. CS 5714 Usability Engineering (graduate level, Fall 2000)
2. CS 3724 Introduction to Human-Computer Interaction (undergraduate, Spring 2003, Spring 2004, Fall 2005)
3. CS 5774 User Interface Software (graduate, Fall 2001, Fall 2002, Spring 2007, Fall 2008); I created this course in the Fall of 2001 as a course to complement our other existing HCI courses targeted to first year graduate students. With this course, we have three basic HCI graduate courses: Usability Engineering, Models and Theory and UI Software.
4. CS 2704 Object-Oriented Software Construction with C++ (undergraduate, Spring 2002, Fall 2002)
5. CS 1706 Introduction to Object Oriented Development II (undergraduate, Spring 2004, Spring 2005); I created this new CS2 course for our curriculum as part of my work in the curricular revision of the freshman year of our program. This is a required course for all CS majors and minors.
6. CS 6724 Multi-Platform User Interfaces (graduate, Fall 2004); special topics course.
7. CS 6604 Online Tools for Education (graduate, Spring 2005, Fall 2006); special topics course team taught with Dr. Stephen Edwards to support our work on Tools for CS Education.
8. CS 5984 Personal Information Management (graduate, Spring 2006); special topics course.
9. CS 2984 Media Computation (Spring 2007); alternate introductory course, helped define the course at VT.
10. CS 5774 User Interface Software (Fall 2008)
11. GRAD 5984: Topics on Diversity and Inclusion for a Global Society (Fall 2009, Fall 2010)
12. CS 6604 Personal Information Management (graduate, Spring 2010); special topics course.

### **Assistant/Associate Professor, Department of Electrical and Computer Engineering, UPR Mayaguez**

1. ICOM 4015 Advanced Programming (undergraduate)
2. ICOM 4035 Data Structures (undergraduate)
3. ICOM 4036 Programming Languages (undergraduate)
4. ICOM 4009 Software Engineering (undergraduate)
5. ICOM 5999 Introduction to Java Programming (undergraduate); 1 credit course that I created to train CpE students in the use of Java. The course was based on a successful course that I had offered in my consulting business.
6. ICOM 5999 Human-Computer Interaction (graduate)
7. INEL 5995 Programming Graphical User Interfaces (undergraduate); I created this course as a special topics for senior students. It was a combination of Introduction to Java and User Interface Software topics.
8. ICOM 6015 Advanced Topics in User Interface Software (graduate); I created this course to support my research. It was offered only once before I left for VT.

### **Visiting Professor, Computer Science Department, US Naval Academy, Annapolis, MD**

1. SI 304 Programming Languages (undergraduate, Spring 1995)

### **Instructor, Computer Science Department, Ball State University**

1. Programming Languages
2. Data Structures

### **Instructor, Fundación Ana G. Mendez, Puerto Rico**

1. Introduction to Programming
2. Database Systems

### **Instructor, Computer Science Department, Universidad de Puerto Rico, Bayamón Campus**

1. Mini-Computers Systems Architecture

## **Departmental Committees**

### **Computer Science Department, Virginia Tech**

- Graduate Program Committee, Fall 2008-present
- Diversity Committee, Spring 2009-present
- Undergraduate Program Committee, Fall 2002-2008
- Member Faculty Search Committee, Fall 2003-Spring 2004
- Member Faculty Search Committee, Fall 2002-Spring 2003
- Co-Founder and Co-Chair of the Virginia Tech Undergraduate Research in Computer Science (VTURCS), Fall 2000-present
- Member Executive Committee, Fall 2000-Summer 2002
- Member Faculty Search Committee, Fall 2000-Spring 2001
- Member Faculty Search Committee for NVC, Fall 2001-Spring 2002

### **Electrical and Computer Engineering Department, University of Puerto Rico-Mayaguez Campus**

- Chair Industrial Affiliates Program Committee (undergraduate research program), Fall 1999-Spring 2000
- Member Industrial Affiliates Program Committee (undergraduate research program), Fall 1997-Spring 1999
- Chair Undergraduate Program Committee, Computer Engineering Curriculum, 1997-1998
- Member Undergraduate Program Committee, Computer Engineering Curriculum, 1996-2000
- Member Graduate Program Committee, Computer Engineering Curriculum, 1997-2000
- Member Executive Committee, Department, 1998-2000
- Director of Computing Resources Committee for the School of Engineering, 1997-1998
- Faculty Advisor of IEEE Computer Society 1997-1999

## **University Service, Professional Activities and Memberships**

- Member Faculty Search Committee in Electrical and Computer Engineering Department, Spring 2010
- Chair of Search Committee for Assistant Director, Graduate School, Spring 2010
- Member Search Committee for Vice-President of Diversity and Inclusion, Spring 2010
- Chair, Coalition to Diversify Computing (2010-2011)
- Participant (by invitation) NSF CISE's Broader Impacts for Research and Discovery Summit (<http://www.nsfbirds.org/>), June 21-23, 2010
- Co-Chair of Computer Human Interaction Mentoring (CHIME) Workshop (<http://happy.cs.vt.edu/chime/>), Co-located with CHI 2010, Atlanta, 9-10 April, 2010. Co-Chairs: Ron Metoyer, Manuel A. Pérez-Quñones.
- Invited to be a member of the External Advisory Committee for the Alan Turing Scholarship awarded to students in Mathematics and Computer Science, University of Puerto Rico, Río Piedras Campus, Fall 2009.
- Invited to be a member of the Advisory Board for S-STEM: Scholarships for Countering Obstacles to Minority Participation in the Professoriate Program, Department of Materials Science & Engineering, Virginia Tech, Fall 2009-present
- Reviewer for SIGCSE 2010, SIGCHI 2010
- Member of the Diversity Committee, College of Engineering (2009-present)
- Elected At-Large Member of the Board for the non-profit Virginia Latino Higher Education Network (VALHEN), 2008-present.
- Associate Editor for the ACM Transaction of Computing Education (new journal from previous ACM's JERIC), 2001-present.
- Invited member of the Virginia Tech Minority Serving Institution (MSI) Advisory Council (2008-2010)
- Elected Chair of the Hispanic Faculty and Staff Caucus, Virginia Tech (2008-2009)
- Co-Chair for Richard Tapia Celebration of Diversity in Computing Conference, April 2009.
- Guest Co-Editor of Special Issue on Keeping, Re-finding and Sharing Personal Information on ACM Transactions on Information Systems. Guest Editors: Susan Dumais, William Jones, Deborah Barreau, Robert Capra, and M. A. Pérez-Quñones.
- Member of the Provost Taskforce on Race and the Institution, Virginia Tech, 2006-2007. Co-Chair of Graduate Student sub-committee.
- Co-Chair for Work-In-Progress for ACM Special Interest Group in Computer-Human Interaction (SIGCHI) Conference 2008, Florence, Italy

- Program Committee for Information Retrieval Track for Conference on Information Knowledge and Management (CIKM) 2007, Lisbon, Portugal
- Program Committee for Latin American Web Congress 2007, Santiago, Chile
- Reviewer for WIPTE 2007 (Workshop on the Impact of Pen-based Technology on Education)
- Reviewer for IEEE Portables 2007
- Reviewer for ACM Special Interest Group in Computer-Human Interaction (SIGCHI) Conference 2007
- Co-Chair for CREU: Collaborative Research Experiences for Undergraduates in Computer Science and Engineering, program sponsored by the Coalition to Diversify Computing and the Committee on the Status of Women in Computing Research and the Coalition to Diversify Computing, 2006-2010
- Co-Chair Short Papers, Member Technical Program Committee IFIP TC13 International Conference on Human-Computer Interaction (Interact) 2007, Rio de Janeiro, Brazil, September 10-14, 2007
- Member of the Coalition to Diversify Computing (CDC), (2006-present)
- Candidate for Vice-President for Finance for ACM Special Interest Group in Computer-Human Interaction (SIGCHI), Spring 2006.
- Session Chair for Keynote Speaker Paul Dourish, Latin American Conference on Human-Computer Interaction, CLIHC 2005, Oct 23-26, 2005, Cuernavaca, México
- Program Committee for Symposium Human Factors in Computing (Simpósio de Fatores Humanos em Sistemas Computacionais, IHC) Brazilian HCI Conference, Nov 9-22, 2006.
- Founding Member of the Hispanic Faculty and Staff Caucus, Virginia Tech (2002-present)
- Multi-Cultural Fellow, Office of the Vice President for Multicultural Affairs, Virginia Tech (2004-2010)
- Associate Member of the Race and Social Policy Research Center, Virginia Tech (2001-2005)
- Organizing Committee for the NSF-Sponsored Invitational Workshop on Personal Information Management, Jan 2005, Seattle
- Member Technical Program Committee Interact 2005
- Member Technical Program Committee CADUI 2006
- Co-Chair for Papers for Latin American Conference on Human-Computer Interaction (CLIHC) 2005
- Member Steering Committee for Latin American Conference on Human-Computer Interaction (CLIHC) 2005-present
- Reviewer for CADUI 2004
- Reviewer for Special Issue HCI in Latin America, Journal Interaction with Computers, 2004
- Member Program Committee for CADUI 2004
- Co-Chair for Workshops and Tutorials for Latin American Conference on Human-Computer Interaction (CLIHC) 2003
- Member of the Editorial Board of ACM's Journal of Educational Resources in Computing.
- Associate-Chair for Papers for CHI 2001
- Reviewer CHI2001, CHI2002, CHI2004, CHI2005
- Member of the SIGCHI International Advisory Board (1997-2000)
- NSF Review Panel for ITR proposals - Review panel for medium size ITR proposals
- NSF Review Panel for Full-ITR proposals - Reviewer for Full ITR-proposals at the summer panel at NSF, Washington DC
- Reviewed book chapter - Anonymous review of 3 chapters for new book on Java, for Jill Jeffries, John Wiley and Sons Ltd, International House
- Member of Association of Computing Machinery (ACM)
- Member IEEE Computer Society
- Member Computer Professionals for Social Responsibility (CPSR)
- Member Special Interest Group on Computer-Human Interaction of the ACM (SIGCHI)
- Member Special Interest Group on Computer Science Education of the ACM (SIGCSE)
- Vice Chairman Ball State Student Chapter of Association for Computing Machinery 1986-87

## Work Experience

**Associate Dean of the Graduate School**, Virginia Polytechnic Institute and State University (Aug 2008-Dec 2010)

- Director of the Office of Graduate Recruitment and Diversity Initiatives; supervised two employees.
- Developed and offered the course Topics on Diversity and Inclusion for a Global Society as part of the Transformative Graduate Education initiative at VT. The course takes a multi-disciplinary look at Diversity and Inclusion.
- Led the definition and implementation of the Diversity Scholars program, a program geared towards training a cohort of graduate students in Diversity matters so they can be agents of change in their respective disciplines.
- Led the creation of the Diversity Initiatives program that provides funding for initiatives in departments across campus.
- Managed the application process and awards for the Dean Diversity Assistantships awarded to incoming students nominated by their respective departments.

- Participated in the update of the 2010-2013 Diversity Strategic Plan for the University, as part of an ad-hoc committee in the Office of Equity and Inclusion.
- Supervised the planning and coordination of the Graduate Preview Weekend 2010, where 16 prospective students were brought to campus to visit their respective departments. Our office coordinated the weekend events, including presentations about graduate school, coordination with departments, and social activities.
- Represented the Graduate School and numerous diversity events and committees including giving presentations about Diversity, Applying to Graduate School, and Why Virginia Tech?
- Represented the Graduate School in several technology committees, including the redesign of the Electronic Thesis and Dissertations website, and the Online Plan of Study Signature System.
- Led the development of an iPhone application used for recruiting purposes.

### **Prior Positions**

- Part-Time Usability Specialist at the Virginia Bioinformatics Institute, Virginia Polytechnic Institute and State University (Jan 2008- May 2008)
- Assistant Professor, Computer Science Dept., Virginia Polytechnic Institute and State University (Aug 2000- Aug 2006)
- Associate Professor, Dept. of Electrical and Computer Engineering, U. of Puerto Rico-Mayagüez (Jul 1999 - Jul 2000)
- Assistant Professor, Dept. of Electrical and Computer Engineering, U. of Puerto Rico-Mayagüez (Jul 1996 - Jul 1999)
- ASEE Summer Faculty, Naval Research Lab (NRL), Interface & Design Evaluation, Washington DC (Summer 1998)
- Computer Scientist, Navy Center for Applied Research in Artificial Intelligence, NRL, Washington DC (Feb 1990 - May 1996)
- Visiting Professor, Computer Science Dept., United States Naval Academy, Annapolis, MD (Jan 1995 - May 1995)
- Research Assistant at George Washington University (Sep 1993 - Jan 1994)
- Software Engineer at Composearch Software Systems, McLean, VA (Jan 1989 - Nov 1989)
- Software Idea Manager at Theme Lines Communications, Inc., McLean, VA (Aug 1988 - Dec 1988)
- Software Engineer at Trace, Inc., Arlington, VA (Feb/88 - Aug 1988)
- Programmer/Analyst for General Sciences Corporation, Washington, DC (Oct 1987 - Feb 1988)
- Graduate Teaching Assistant, Computer Science Department, Ball State University (Aug 1985 - May 1987)
- Part-time instructor, Computer Science Department, University of Puerto Rico, Bayamón Campus; Part-time instructor, Computing, Univ. El Turabo & Univ. Metropolitana, Fundación Ana G. Mendez (May 1983 - Jul 1985)

### **Consulting**

- Consultant for Harmonia (2006-2007)
- Reviewer for book for Wiley & Sons (Spring 2002)
- Consultant for Scholar One, creators of Manuscript Central (2003-2005)
- Consultant, Inter-American University, PR. Training to Faculty of the Computer Science Dept. (May 2000)
- Consultant for Bethesda Softworks, ported game from Amiga to Macintosh (Jan 1990 - Jun 1990)
- Staff member (in charge of computer support for athlete's records and competition results) of the Puerto Rican Delegation to the 1984 Olympic Games in Los Angeles, USA (Summer 1984)
- Staff member (in charge of computer support for athlete's records and competition results) of the Puerto Rican Delegation to the 1983 Pan Am Games in Caracas, Venezuela (Summer 1983)

### **Personal Data**

- Fluent in Spanish and English; born in San Juan, Puerto Rico
- Married since June 12, 1993 to Dr. Olga. I. Padilla-Falto, with two children: Margarita María and Juan Miguel