Manuel A. Pérez Quiñones, D.Sc.

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Current Position

NSF IPA, Education and Workforce Cluster in the Computer and Information Science and Engineering division, National Science Foundation (Feb 2023-present)

Professor, Software and Information Systems, UNC Charlotte (2015-present)

Education

D.Sc., The George Washington University, Washington, DC. May 1996
- Major: Computer Science, Software and systems
- Minor: Artificial Intelligence, Psychology
- Doctoral Dissertation: *Conversational Collaboration in User-Initiated Interruption and Cancellation Requests*
- Advisor: Dr. John Lee Sibert
- Committee: Dr. Michael B. Feldman, Dr. Rachelle S. Heller, Dr. Deborah Hix, Dr. Robert J. K. Jacob

M.S., Computer Science, Ball State University, Muncie IN. May 1987
- Major: Computer Science
- Master Thesis: *A Language for Interactive Computer Graphics Programming*
- Advisor: Dr. Michael McGrew
- Committee: Dr. Clinton Fuelling, Dr. William F. Brown

B.A., Computer Science, Ball State University, Muncie IN. May 1983
- Major: Computer Science
- Minor: Foundations of Business

Partial List of Professional Honors

- ACM Distinguished Member For Outstanding Educational Contributions to Computing 2019
- Computing Research Association's A. Nico Habermann Award 2018
- Richard A. Tapia Achievement Award for Scientific Scholarship, Civic Science and Diversifying Computing, 2017
- ACM Senior Member, 2017

Current Membership on National Boards

- Member of the Committee on Women in Science, Engineering (CWSEM) and Medicine at the National Academies Science, Engineering and Medicine (NASEM) - April 2021 until December 31, 2023.
- Member BPCnet.org Steering Committee, Computing Research Association, 2020-present
- Advisory Board Member, CMD-IT: The Center for Minorities and People with Disabilities in IT 2016 - present
- Member of the Advisory Board for the Alliance for Identity Inclusive Computing Education (NSF Grant, hosted at Duke)

Full Academic Employment History

NSF Expert (July 2022-February 2023)

CollegeBoard AP Visiting Faculty Fellow (August 2022-July 2023)

Center for Inclusive Computing, Northeastern University (January 2022-May 2022)
- *Visiting Professor*, Khoury College of Computing Sciences at Northeastern University while on Educational Leave from UNCC.

Faculty Fellow, Graduate School, UNC Charlotte (July 2019-December 2021)
- In charge of Diversity Initiatives at the Graduate School (2020-2021)
    - Member of the Diversity Committee at the Graduate School
    - Design and conduct training on Diversity and Inclusion offered monthly to Graduate School Staff.
    - Lead Affinity Lunch gatherings of graduate student groups - conducted so far Hispanics, LGBTQ, Native & Indigenous, Students with Disabilities; scheduled for Spring 2021: African-American, Women's, Veterans.
    - Design and offer a course on Diversity, Equity and Inclusion for graduate students of all backgrounds.
- Responsible for overseeing the implementation of the recommendation from the Graduate Student Funding Task Force (2019-2020).
    - Chair of Committee for Graduate Funding as part of the Graduate Council
    - Created definitions of Graduate Teaching Assistant and Graduate Research Assistant to ensure consistency in hiring of graduate students

Department of Software and Information Systems, University of North Carolina at Charlotte (July 2015-present)
- *Full Professor* in Software and Information Systems, College of Computing and Informatics

Associate Dean, College of Computing and Informatics, UNC at Charlotte (July 2015-June 2019)
- Oversee all academic programs in CCI, including largest undergraduate degree on campus, several MS degrees, and 2 PhD programs.

- Director of the Tutoring Center - interviewed, hired, trained, and managed undergraduate students working in the tutoring center.
- Lead Honors Committee in reformulating CCI honors program.
- Participated in the Taskforce that lead to creation of the Integrated Critical Core, academic unit that manages core courses in the undergraduate CS degree.
- Created the Advising Center in the CCI, drafted organization, hired first 4 advisors including the director of the center. Center was recognized with Provost Excellence in Advising award just 2 years after its creation.
- Wrote the proposal to merge the two undergraduate degrees in CCI (Computer Science and Software Information Systems).
- Created the Mentoring Program for undergraduate women in CCI with support and participation from professional mentors from local industry.
- Member of numerous campus efforts around improvement of student success, including Graduation Metrics Taskforce, Prospect for Success, Adaptive Learning Initiative, General Education Charge Committee, Niner Nation Remembrance Commission, General Education Parameters Working Group, and Advising Center committee among others.

Department of Computer Science, Virginia Tech (Aug 2000-Aug 2015)

- *Assistant and Associate Professor* in Computer Science

Associate Department Head and Director of Graduate Studies, Department of Computer Science, Virginia Tech (Aug 2012-Dec 2014)

- Director of the Graduate Programs in Computer Science.
- Supervision of Graduate Coordinator.
- Administration and oversight of the graduate program in Computer Science, including making decisions in approvals of plans of study, oversight over admissions, orientation of new students, in charge of Graduate Seminar, organization for annual review of students and in charge of monitoring student progress.
- Member of executive team in the CS department with weekly meetings establishing priorities, and setting direction for the department.

Associate Dean of the Graduate School, Virginia Tech (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

Prior Positions at Virginia Tech

- 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)

Positions before Virginia Tech

- Associate Professor, Dept. of Electrical and Computer Engineering, U. of Puerto Rico-Mayagüez (Jul 1999 - Jun 2000)
- Assistant Professor, Dept. of Electrical and Computer Engineering, U. of Puerto Rico-Mayagüez (Jul 1996 - Jun 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, Naval Research Lab, 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 Compusearch 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 1988 - Aug 1988)
- Programmer/Analyst for General Sciences Corporation, Washington, DC (Oct 1987 - Feb 1988)
- Graduate Teaching Assistant, CS 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)

Full List of Professional Honors and Awards

- ACM Service Recognition Award for Service as Symposium Co-Chair for SIGCSE 2019 Technical Symposium in Computer Science Education, 2019
- ACM Distinguished Member For Outstanding Educational Contributions to Computing 2019
- Computing Research Association's A. Nico Habermann Award 2018
- Richard A. Tapia Achievement Award for Scientific Scholarship, Civic Science and Diversifying Computing, 2017
- ACM Senior Member, 2017
- Dean's Award for Excellence in Service, College of Engineering, Virginia Tech, 2011

- 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 Member of Steering Committee of the Richard Tapia Celebration of Diversity in Computing Conference, 2011
- ACM Service Recognition Award for Service as Member of Steering Committee of the Richard Tapia Celebration of Diversity in Computing Conference, 2012
- 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.

External Grants

Research Grants

1. *Collaborative Research: BPC-AE: STARS: Catalyzing Action-Oriented Academic Communities for Broadening Participation in Computing,* CNS Division Of Computer and Network Systems (#2136600). PI:Audrey Rorrer; Co-PI: Manuel A. Pérez-Quiñones. October 1, 2021; **Amount**: $173,277, Personal Participation: 50%. Awardee organization:UNC Charlotte. Part of BPC Alliance with Temple and NC State University.

2. *RPP HS Strand (Small): Preparing High School Teachers to Broaden Participation by Teaching Programming Online*, CNS: Division of Computer and Network Systems (#2031496). **PI**: Manuel A. Pérez-Quiñones, **Co-PI**: David Pugalee, Florence Martin. November 1, 2020, **Amount:** $299,848, Personal Participation: 40%. Awardee organization: UNC Charlotte.

3. *Collaborative: The STARS Aligned: How the STARS Computing Corps Broadens Participation in Computing*, CNS: Division of Computer and Network Systems (#2023399). **PI:** Audrey Rorrer, Co-PI: Manuel A. Pérez-Quiñones. October 1, 2020, **Amount:** $105,104, Personal Participation: 25%. Awardee organization: UNC Charlotte.

4. *Collaborative Research: Promoting a Growth Mindset Using Automated Feedback*, DUE: Division of Undergraduate Education (#1625425). PI; Stephen Edwards (Virginia Tech), Co-PIs: Manuel A. Pérez-Quiñones, Matt Jadud. September 1, 2016-August 31, 2021, **Amount:** $599,024, Personal Participation: 25% ($150,000).

5. *CodePractice: Developing Coding Skills Using Social and Adaptive Drill-and-Practice Exercises*, DUE: Division of Undergraduate Education (#1245589). **PI**: Stephen Edwards, **Co-PI**: Manuel A. Pérez-Quiñones. July 1, 2013-June 30, 2016, **Amount**: $199,737, Personal participation: 40%, Area: CS Education, Awardee organization: Virginia Tech.

6. *Participation on the Town Square in the Era of Web 2.0*, SES: Division of Social and Economic Sciences (#1111239). **PI**: Andrea Kavanaugh, **Co-PI**: Manuel A. Pérez-Quiñones, Naren Ramakrishnan, John Tedesco. September 15, 2011-August 31, 2014, **Amount**: $749,999, Personal participation: 25%, Area: HCI, Awardee organization: Virginia Tech.

7. *Planning Grant: Integrating Computational Thinking Into Middle School Curriculum*, CNS: Division of Computer and Network Systems (#1132227). **PI**: Deborah Tatar, **Co-PI**: Dennis Kafura, Manuel A. Pérez-Quiñones, Steve Harrison, Chris Corallo. October 1, 2011-January 31, 2015, **Amount**: $199,998, Personal participation: 20%, Area: CS Education, Awardee organization: Virginia Tech.

8. *NIOSH/CDC Virginia Tech OSH Research Cooperative Agreement*, NIOSH. **PI**: Brian Kleiner, **Co-PI**: Manuel A. Pérez-Quiñones, and others. Dates of performance: 09/01/09 - 08/31/14, **Amount**: $6,472,495, Personal participation: 1.31%, Area: HCI, Awardee organization: Virginia Tech.

9. *Ensemble: Enriching Communities and Collections to Support Education in Computing*, DUE: Division of Undergraduate Education (#0840719). **PI**: Edward Fox, **Co-PI**: Patrick Fan, Stephen Edwards (Senior Personnel: M. A. Pérez-Quiñones). September 15, 2008-August 31, 2014, **Amount**: $2,500,000, Personal participation: 0%, Area: HCI, Awardee organization: Virginia Tech.

10. *Collaborative Research: CPATH CB: Distributed Expertise in Enhancing Computing Education with Connections to the Arts*, IIS: Division of Information & Intelligent Systems (#0829625). **PI**: M. A. Pérez-Quiñones, **Co-PI**: Steve Harrison, Deborah Tatar. September 1, 2008-August 31, 2011, **Amount**: $120,000, Personal participation: 30%, Area: CS Education, Awardee organization: Virginia Tech.

11. *CPATH CB: Connecting Computing Educators Within and Outside the Traditional Boundaries*, CCF: Division of Computer and Communication Foundations (#0722223). **PI**: L. Cassell, **Co-PI**: Manuel A. Pérez-Quiñones, S.R. Harrison. September 1, 2007-August 31, 2009, **Amount**: $80,000, Personal participation: 50%, Area: CS Education, Awardee organization: Virginia Tech.

12. *Educational Support for Testing Graphical User Interfaces*, DUE: Division of Undergraduate Education (CCLI-Phase 1) (#0633594). **PI**: S. H. Edwards, **Co-PI**: M. A. Pérez-Quiñones. May 15, 2007-April 30, 2010, **Amount**: $149,899, Personal participation: 50%, Area: CS Education, Awardee organization: Virginia Tech.

13. *Community Resources for Automated Grading*, DUE: Division of Undergraduate Education (CCLI-Phase 2) (#0618663). **PI**: S. H. Edwards, **Co-PI**: Manuel A. Pérez-Quiñones, C. Evia. September 1, 2006-August 31, 2010, **Amount**: $499,989, Personal participation: 40%, Area: CS Education, Awardee organization: Virginia Tech.

14. *BPC Supplement: Hispanics in Digital Government: Creating a Pipeline of Hispanic Students Between Virginia Tech and the University of Puerto Rico, Mayaguez*, NSF Broadening Participation in Computing Program, Supplement to Modeling Online Participation in Local Governance grant. **PI**: Manuel A. Pérez-Quiñones, **Co-PI**: A. Kavanaugh, B. Vélez-Rivera. **Amount**: $51,980, Personal participation: 100%, Area: Students, Awardee organization: Virginia Tech.

15. *Interfaces for the Embodied Mind*, CNS: Division of Computer and Network Systems (#0551610). **PI**: Francis Quek, **Co-PI**: Doug Bowman, Deborah Tatar, Chris North, Woodrow Winchester, Andrea Kavanaugh, Steve Harrison, Yingen Xiong, Joseph Gabbard, Shawn Bohner, Tonya Smith-Jackson, Daniel Dunlap, Roger Ehrich, Edward Fox, Denis Gracanin, Debby Hix, Thomas Martin, Scott McCrickard, Manuel A. Pérez-Quiñones, Bill Carstensen. March 15, 2006-February 29, 2012, **Amount**: $206,938, Personal participation: 5%, Area: HCI, Awardee organization: Virginia Tech.

16. *Beyond Human Memory: SenseCam Use in Veterinary College and as Assistive Technology*, Microsoft Research Digital Memories (Memex). **PI**: Manuel A. Pérez-Quiñones, **Co-PI**: E.A. Fox. Dates of performance: January 1, 2006-December 31, 2006, **Amount**: $49,894, Personal participation: 90%, Area: HCI, Awardee organization: Virginia Tech.

17. *Personalization of Content: Bridging the gap between NSDL and its users through the course website*, DUE: Division of Undergraduate Education (#0532825). **PI**: Manuel A. Pérez-Quiñones, **Co-PI**: E.A. Fox, P. Fan, L. Cassel. September 1, 2005-August 31, 2009, **Amount**: $450,000, Personal participation: 54%, Area: HCI, Awardee organization: Virginia Tech.

18. *Use of a Tablet PC for Peer-Review Activities in CS1 and CS2*, Microsoft Faculty Grants. **PI**: Manuel A. Pérez-Quiñones, **Co-PI**: Stephen Edwards. Dates of performance: August 2005 –July 2006, **Amount**: $53,926, Personal participation: 50%, Area: CS Education, Awardee organization: Virginia Tech.

19. *NSF ITWF: Scholars of the Future: An Implementation Model for Increasing Diversity in Information Technology*, CNS: Division of Computer and Network Systems (#0420485). **PI**: J.E. Gilbert (Auburn), **Co-PI**: Theron Hendrix, Manuel A. Pérez-Quiñones, Lecia Baker. August 1, 2004-July 31, 2009, **Amount**: $754,983, Personal participation: 28%, Area: Students, Awardee organization: Virginia Tech.

20. *Modeling Online Participation in Local Governance*, IIS: Division of Information & Intelligent Systems (#0429274). **PI**: Andrea Kavanaugh, **Co-PI**: Daniel Dunlap, Philip Isenhour, Manuel A. Pérez-Quiñones. September 1, 2004-February 29, 2008, **Amount**: $550,002, Personal participation: 25%, Area: HCI, Awardee organization: Virginia Tech.

21. *NSF EIA-0312668: Web Development by Non-programmers*, CNS: Division of Computer and Network Systems (#0353309). **PI**: M. B. Rosson, **Co-PI**: Manuel A. Pérez-Quiñones. September 15, 2003-July 31, 2006, **Amount**: $93,106, Personal participation: 100%, Area: HCI, Awardee organization: Virginia Tech.

22. *Research on the Use of VoiceXML Within the Context of the WebSphere Transcoding Publisher*, IBM. **PI**: Manuel A. Pérez-Quiñones. Dates of performance: January 2002-December 2003, **Amount**: $50,000, Personal participation: 100%, Area: HCI, Awardee organization: Virginia Tech.

23. *Computing and Information Technology Interactive Digital Educational Library (CITIDEL)*, DUE: Division of Undergraduate Education (#0121679). **PI**: Fox, E.A., **Co-PI**: Lee, JAN, Manuel A. Pérez-Quiñones, Giles, C.L., Cassel, L., Impagliazzo, J., Knox, D.. September 15, 2001-May 31, 2005, **Amount**: $835,000, Personal participation: 23%, Area: HCI, Awardee organization: Virginia Tech.

24. *CAREER: Dialogue Context in Graphical User Interfaces: Representation, Portability and Uses*, IIS: Division of Information & Intelligent Systems (#0049075). **PI**: Manuel A. Pérez-Quiñones. August 10, 2000-February 29, 2004, **Amount**: $313,798, Personal participation: 100%, Area: HCI, Awardee organization: Virginia Tech.

25. *Mobile Computing: Portability of User Interfaces Across Very Different Platforms*, UPRM R&D Center Seed Grant. **PI**: Manuel A. Pérez-Quiñones. Dates of performance: 1997-1998, **Amount**: $5,000, Personal participation: 100%, Area: HCI, Awardee organization: UPRM.

Student Support, Diversity Grants

1. *Sustainable Diversity in the Computing Research Pipeline*, CNS: Division of Computer and Network Systems (#1246649). **PI**: Tracy Camp, **Co-PI**: Manuel A. Pérez-Quiñones, Andrew Bernat. October 1, 2012-September 30, 2017, **Amount**: $5,569,431, Personal participation: 30%, Area: Students, Awardee organization: CRA.

2. *CS Principles Pilot Site Round 2*, The College Board. **PI**: Dwight Barnette, **Co-PI**: Manuel A. Pérez-Quiñones, collaboration with Rebecca Dovi, Patrick Henry High School. **Amount**: $15,000, Personal participation: 50%, Area: CS Education, Awardee organization: Virginia Tech.

3. *Computer-Human Interaction Workshop: A Discipline Specific Mentoring Proposal*, CRA-W, Workshop co-located with CHI 2012, Austin, TX. **PI**: Ron Metoyer, **Co-PI**: Manuel A. Pérez-Quiñones. **Amount**: $24,000, Personal participation: 100%, Area: Students, Awardee organization: CRA.

4. *WORKSHOP: Student Travel Support for the CHI Mentoring 2012 Workshop*, IIS: Division of Information & Intelligent Systems (#1237485). **PI**: Manuel A. Pérez-Quiñones, **Co-PI**: Ron Metoyer. April 1, 2012-March 31, 2014, **Amount**: $13,750, Personal participation: 100%, Area: Students, Awardee organization: Virginia Tech.

5. *High School Teachers Workshop 2011*, CS4HS Grant, Google Inc.. **PI**: Manuel A. Pérez-Quiñones. **Amount**: $15,000, Personal participation: 100%, Area: CS Education, Awardee organization: Virginia Tech.

6. *BPC Pipeline: Five Year Extension*, CNS: Division of Computer and Network Systems (#1042403). **PI**: Kathleen Fisher, **Co-PI**: Andrew Bernat, Manuel A. Pérez-Quiñones. February 1, 2011-January 31, 2014, **Amount**: $750,720, Personal participation: 50%, Area: Students, Awardee organization: CRA.

7. *WORKSHOP: Student Travel Support for the CHI Mentoring Workshop*, IIS: Division of Information & Intelligent Systems (#1020637). **PI**: Manuel A. Pérez-Quiñones, **Co-PI**: Ron Metoyer. March 1, 2010-February 28, 2011, **Amount**: $11,374, Personal participation: 100%, Area: Students, Awardee organization: CRA.

8. *Computer-Human Interaction Workshop: A Discipline Specific Mentoring Proposal*, CRA-W. **PI**: Ron Metoyer, **Co-PI**: Manuel A. Pérez-Quiñones. **Amount**: $30,000, Personal participation: 100%, Area: Students, Awardee organization: CRA.

9. *A Proposal for Funding Student Scholarships to The Richard Tapia Celebration of Diversity in Computing Conference 2009*, CNS: Division of Computer and Network Systems (#0926083). **PI**: Manuel Pérez-Quiñones, **Co-PI**: Ronald Metoyer. April 15, 2009-September 30, 2010, **Amount**: $73,680, Personal participation: 100%, Area: Students, Awardee organization: CRA.

10. *BPC-A: Widening the Research Pipeline, REU Supplement to CRA-W/CDC BPC Alliance*, NSF. **PI**: Lori A. Clarke, **Co-PI**: Andrew Bernat, Carla S. Ellis, Margaret Martonosi, Pamela J. Williams (Senior Personnel: M. A. Pérez-Quiñones). Dates of performance: 2009-2010, **Amount**: $5,000, Personal participation: 100%, Area: Students, Awardee organization: CRA.

11. *Understanding the Latino College Experience in Virginia. Funded by VT's Faculty Diversity Grant Program*, Virginia Tech. **PI**: Carlos Evia, **Co-PI**: M. A. Pérez-Quiñones. Dates of performance: May 1, 2008-April 30, 2009, **Amount**: $3,000, Personal participation: 100%, Area: Students, Awardee organization: Virginia Tech.

12. *Stars Alliance, subcontract to UNC Charlotte BPC Alliance*, NSF. **PI**: D.S. McCrickard, **Co-PI**: Manuel A. Pérez-Quiñones. Dates of performance: Sept 2007-Sept 2008, **Amount**: $22,176, Personal participation: 50%, Area: Students, Awardee organization: Virginia Tech.

13. *Workshop: Computing Education Needs Assessment, February 2008 - Washington, DC.*, DUE: Division of Undergraduate Education (#0752030). **PI**: L. Cassel, **Co-PI**: Manuel A. Pérez-Quiñones. October 1, 2007-September 30, 2009, **Amount**: $50,000, Personal participation: 50%, Area: CS Education, Awardee organization: Virginia Tech.

Publications

Journals

1. Sarah Heckman, Brandon Fain, and Manuel Pérez-Quiñones. 2019. Building and expanding a successful undergraduate research program. *J. Comput. Sci. Coll.* 35, 4 (October 2019), 18–19.

2. Scott A. Turner, Manuel A. Pérez-Quiñones, S. H. Edwards (2018) Peer Review in CS2: Conceptual Learning and High-level Thinking. *Transactions on Computing Education*, *vol. 18, no. 3, pp. 13:0-13:37, September 2018, https://doi.org/10.1145/3152715*

3. Carlos Evia, Matthew R. Sharp, Manuel A. Pérez-Quiñones (2015) Teaching Structured Authoring and DITA Through Rhetorical and Computational Thinking. IEEE Transactions on Professional Communication, vol. 58, no. 3, pp. 328-343, Sept. 2015. doi: 10.1109/TPC.2016.2516639

4. Benjamin V. Hanrahan, Manuel A. Pérez-Quiñones, David Martin, (2014). Attending to Email, Interacting with Computers, 20 pps, December 23, 2104, doi: 10.1093/iwc/iwu048.

5. Andrea Kavanaugh, Ankit Ahuja, Samah Gad, Sloane Neidig, Manuel A. Pérez-Quiñones, Naren Ramakrishnan, John Tedesco (2014). (Hyper) local news aggregation: Designing for social affordances, Government Information Quarterly, Special Issue 2012 Digital Government Society Conference 31(1), 30-41. http://www.sciencedirect.com/science/article/pii/S0740624X13001251

6. Kibum Kim, Scott A. Turner, Manuel A. Pérez-Quiñones (2009). Requirements for electronic note taking systems: A field study of note taking in university classrooms, Education and Information Technologies 14(3), 255-283. http://dx.doi.org/10.1007/s10639-009-9086-z

7. Cyril Montabert, Scott McCrickard, Woodrow W. Winchester, Manuel A. Pérez-Quiñones (2009). An integrative approach to requirements analysis: How task models support requirements reuse in a user-centric design framework, Interacting with Computers 21(4), 304-315. http://dx.doi.org/10.1016/j.intcom.2009.06.003

8. S. Perugini, M. E. Pinney, Naren Ramakrishnan, Manuel A. Pérez-Quiñones, Mary Beth Rosson, (2009). Exploring Out-of-turn Interactions with Web Hierarchies, Journal of Digital Information 10(4), 18.

9. Deborah Barreau, Robert Capra, Susan Dumais, William Jones, Manuel A. Pérez-Quiñones (2008). Introduction to keeping, refinding and sharing personal information, *ACM Transactions on Information Systems* 26(4), 1-3. http://doi.acm.org/10.1145/1402256.1402257

10. Andrea Kavanaugh, Manuel A. Pérez-Quiñones, B. Joon Kim, Joseph Schmitz (2008). Net Gains in Political Participation: Secondary effects of the Internet on community, Information, Communication & Society 11(7), 933-963.

11. Naren Ramakrishnan, Manuel A. Pérez-Quiñones, Atul Shenoy (2008). Compositional specification and realization of mixed-initiative web dialogs, International Journal of Web Engineering and Technology, Special Issue Special Issue on User Interface Description Languages 4(3), 336-366. 10.1504/IJWET.2008.019538

12. Scott A. Turner, Manuel A. Pérez-Quiñones, S. H. Edwards, (2007). Effect of Interface Style in Peer Review Comments for UML Designs, The Journal of Computing Sciences in Colleges 22(3), 214-220.

13. S. H. Edwards, Manuel A. Pérez-Quiñones, (2007). Experiences Using Test-Driven Development With An Automated Grader, The Journal of Computing Sciences in Colleges 22(3), 44-50.

14. H. Vastani, S.H. Edwards, Manuel A. Pérez-Quiñones, (2006). Supporting On-line Direct Markup and Evaluation of Students' Projects, Computers in Education Journal 16(3), 88-99.

15. Mary Czerwinski, Doug Gage, Jim Gemmell, Tiziana Catarci, Catherine C. Marshall, Manuel A. Pérez-Quiñones, Meredith M Skeels, (2006). Digital Memories in an Era of Ubiquitous Computing and Abundant Storage, Communications of the ACM: Special issue on Personal Information Management 49(1), 44-50.

16. Ravikiran Vatrapu, Manuel A. Pérez-Quiñones (2006). Culture and International Usability Testing: The Effects of Culture in Structured Interviews, Journal of Usability Studies 1(4), 156-170.

17. Robert G. Capra, Manuel A. Pérez-Quiñones, (2005). Using Web Search Engines to Find and Refind Information, Computer 38(10), 36-42. http://dx.doi.org/10.1109/MC.2005.355

18. Scott A. Turner, Manuel A. Pérez-Quiñones, Stephen H. Edwards, (2005). minimUML: A minimalist approach to UML diagramming for early computer science education, ACM Journal on Educational Resources in Computing (JERIC) 5(4), 1. http://doi.acm.org/10.1145/1186639.1186640

19. H.Rex Hartson, P. Shivakumar, Manuel A. Pérez-Quiñones (2004). Usability inspection of digital libraries: a case study, International Journal on Digital Libraries 4(2), 108-123.

20. S.S. Everett, Kenneth Wauchope, Manuel A. Pérez-Quiñones (1999). Creating Natural Language Interfaces to VR Systems, Virtual Reality 4(1), 103-113.

Proceedings

Full papers published in conference proceedings based on a peer review process.

21. Shanley, N., Martin, F., Hite, N., Perez-Quinones, M., Ahlgrim-Delzell, L., Pugalee, D., & Hart, E. (2022). Teaching Programming Online: Design, Facilitation and Assessment Strategies and Recommendations for High School Teachers. Tech Trends, 66, pp. 483-494. https://doi.org/10.1007/s11528-022-00724-x

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Panel and Special Sessions

Participation in panels and/or special sessions at national or regional conferences.

1. Consuelo C. Salas, Laura Gonzales, Carlos Evia and M. A. Pérez-Ouiñones, *Ideology of monolingualism: How ignoring bilingualism makes society less inclusive*, 2021 Conference on Research in Equitable and Sustained Participation in Engineering, Computing, and Technology (RESPECT), 2021, pp. 1-2, doi: https://doi.org/10.1109/RESPECT51740.2021.9620562

2. Colleen M. Lewis, Kathi Fisler, Jenny Hinz, David J. Malan, Joshua E. Paley, M. A. Pérez-Quiñones, and Shikha Singh. 2021. *Microteaching: Semantics, Definition of a Computer, Running Times, Fractal Trees, Classes as Encapsulation, and P vs NP*. Proceedings of the 52nd ACM Technical Symposium on Computer Science Education. ACM, New York, NY, USA, 766–767. doi: https://doi.org/10.1145/3408877.3432582

3. Kristin Stephens-Martinez, M. A. Pérez-Quiñones, Nicki Washington, and Leigh Ann DeLyser. 2021. *Where Should We Go From Here? Eliminating Inequities In CS Education, Featuring Guests From The CS-Ed Podcast*. Proceedings of the 52nd ACM Technical Symposium on Computer Science Education. ACM, New York, NY, USA, 315–316. doi: https://doi.org/10.1145/3408877.3432566 Wendy Dubow, Dorian Arnold, Anne-Marie Nuñez, and Manuel Perez-Quinones (2022) *Who's In and Who's Out: The Complexities of the Latinx Community*. Panel at the 2022 ACM Tapia Celebration of Diversity in Computing Conference, September 2022, Washington DC.

4. Brianna Posadas, Karla Badillo-Urquiola, Adriana Alvarado Garcia, and Wendy Roldan, Manuel Perez-Quinones (moderator) (2022) *Becoming a Latina Computing Professional: Barriers and Accomplishments*. Panel at the 2022 ACM Tapia Celebration of Diversity in Computing Conference, September 2022, Washington DC.

5. Sarita Brown, Joshua Gutierrez, Ann Gates, and Manuel Perez-Quinones (moderator) (2022) *The Role that Hispanic Serving Institutions Play in Broadening Participation in Computing*. Panel at the 2022 ACM Tapia Celebration of Diversity in Computing Conference, September 2022, Washington DC.

6. Valerie Barr, Carla Brodley, and Manuel Perez-Quinones (2022) *Intersectionality: Measuring and Visualizing Diversity*. Session at the 2022 ACM Tapia Celebration of Diversity in Computing Conference, September 2022, Washington DC.

7. Adrienne Decker, Christina Gardner-McCune, Sheena Erete, and Manuel Perez-Quinones (2022) *The Value of Service in Advancing Careers: Exploring the Benefits and Types of Service*. Panel at

the 2022 ACM Tapia Celebration of Diversity in Computing Conference, September 2022, Washington DC.

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12. Jeanine Cook, Sandia, Manuel Pérez-Quiñones, Nicki Washington. (2021) *Strategies for Human-Human Interaction*, 2021 CRA-WP Grad Cohort Workshop for Inclusion, Diversity, Equity, Accessibility, and Leadership Skills (IDEALS), 2021-03-11.

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19. Freeman Hrabowski, Maria Klawe, Manuel A. Pérez-Quiñones, and Mary Lou Soffa. (2012) *Mentoring for Diversity*. Grace Hopper Conference, October 2012, Baltimore, MD.

20. Karen D. Hendricks-Muñoz, Manuel A. Pérez-Quiñones (2012) *Getting Latinos a Place at the Table: Importance of Science, Technology and Health Education.* Panel VALHEN Encuentro 2012, October 11, 2012.

21. Margaret Dickey-Kurdziolek, Manuel A. Pérez-Quiñones, Stephanie Ludi, Amy Csizmar Dalal, Bonnie MacKellar, and Megan Olsen (2010) *Building Bridges and Breaking Barriers: Panel on Diversity and Inclusion in Computer Science Education. Panelists*. Panel Grace hopper Celebration of Women in Computing, September 28 - October 2, 2010, Atlanta, GA.

22. M. Brian Blake, Juan E. Gilbert, Manuel A. Pérez-Quiñones, Andrew B. Williams, and Tracy Camp (2011) *Choosing the Administrative Path*. Panel ACM Ricard Tapia Celebration of Diversity in Computing Conference, San Francisco, CA, April 3-6, 2011.

23. Dick Gayler, David Klappholz, Valerie J. Harvey, Manuel A. Pérez-Quiñones (2007). 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*, pp. 129-130, New York, NY, USA. ACM.

24. Edward F. Gehringer, Donald D. Chinn, Manuel A. Pérez-Quiñones, Mark A. Ardis (2005). Using peer review in teaching computing. In *SIGCSE '05: Proceedings of the 36th SIGCSE technical symposium on Computer science education*, pp. 321-322, New York, NY, USA. ACM.

25. Manuel A. Pérez-Quiñones, Steven Edwards, Claude Anderson, Doug Baldwin, James Caristi, Paul 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.

26. L N Cassel, J. Impagliazzo, A. Lally, E.A. Fox, Manuel A. Pérez-Quiñones, 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, New York, NY, USA. ACM Press.

27. Lillian N. Cassel, John Impagliazzo, Deborah Knox, C. Lee Giles, Edward A. Fox, JAN Lee, Manuel A. Pérez-Quiñones (2003). Using an education oriented digital library to organize and present

classes in computing and information. In *ITiCSE '03: Proceedings of the 8th annual conference on Innovation and technology in computer science education*, pp. 260-260, New York, NY, USA. ACM Press.

28. Manuel A. Pérez-Quiñones, Robert Bryant, Fred Springsteel, Anne-Louise 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, New York, NY, USA. ACM.

Tutorials and Workshops offered

Tutorials and workshops offered at national conferences.

1. David L. Largent, Christian Roberson, Carlo Sgro, Manuel Pérez Quiñones, and Linda F. Wilson. 2022. *Transform Your Computer Science Course with Specifications Grading*. In Proceedings of the 53rd ACM Technical Symposium on Computer Science Education V. 2 (SIGCSE 2022). Association for Computing Machinery, New York, NY, USA, 1200. https://doi.org/10.1145/3478432.3499167

2. Richard Ladner, Annie Antón, Charles Isbell, Anyanna Howard, Manuel A. Pérez-Quiñones (2021) Panel Promotion to Full Professor, Academic Career Workshop, CMD-IT. 2021-06-17.

3. Manuel A. Pérez-Quiñones (2021) *Why Diversity Should Matter to Computer Scientists*. Invited Speaker to Reading Seminar, Computer Science Department, John Hopkins University. 2021-04-15.

4. Manuel A. Pérez-Quiñones (2021) *Graduate Studies and the Academic Journey*. Invited Speaker to exploreCSR 2021-2022: Diversity in Computer Systems Research, University of Rhode Island. 2021-04-09.

5. Colleen M. Lewis, Kathi Fisler, Jenny Hinz, David J. Malan, Joshua E. Paley, Manuel A. Pérez-Quiñones, and Shikha Singh. 2021. *Microteaching: Semantics, Definition of a Computer, Running Times, Fractal Trees, Classes as Encapsulation, and P vs NP*. In Proceedings of the 52nd ACM Technical Symposium on Computer Science Education (SIGCSE '21). Association for Computing Machinery, New York, NY, USA, 766–767. https://doi.org/10.1145/3408877.3432582

6. Manuel A. Pérez-Quiñones. (2020) *How to Become Fluent in Diversity and Inclusion in one Evening*. In Proceedings of the 51st ACM Technical Symposium on Computer Science Education (SIGCSE '20). Association for Computing Machinery, New York, NY, USA, 1392. DOI:https://doi.org/10.1145/3328778.3367020

7. Stephen H. Edwards and Manuel A. Pérez-Quiñones. (2014) *The absolute beginner's guide to JUnit in the classroom* (abstract only). In Proceedings of the 45th ACM technical symposium on Computer science education (SIGCSE '14). Association for Computing Machinery, New York, NY, USA, 744. DOI:https://doi.org/10.1145/2538862.2539015

8. Stephen H. Edwards and Manuel A. Perez-Quinones. (2012) The absolute beginner's guide to JUnit in the classroom (abstract only). In Proceedings of the 43rd ACM technical symposium on Computer Science Education (SIGCSE '12). Association for Computing Machinery, New York, NY, USA, 656. DOI:https://doi.org/10.1145/2157136.2157327

9. Manuel A. Pérez-Quiñones, Maricel Quintana-Baker (2011) Understanding Diversity and Cultural Issues. In *Encuentro: Virginia Latino Higher Education Network*, March 24-25, 2011, Annandale, VA.

10. Manuel A. Pérez-Quiñones, Maricel Quintana-Baker (2011) Understanding Diversity and Cultural Issues. *Annual Meeting of the Computing Alliance of Hispanic-Serving Institutions*, April 27-29, 2010, San Juan, Puerto Rico.

11. Patty Lopez, Robin Jeffries, Manuel A. Pérez-Quiñones, Gilda Garreton, Tarik Ono (2011) Early Career Professional Development Workshop. Speakers. In *Ricard Tapia Celebration of Diversity in Computing Conference*, San Francisco, CA, April 3-6, 2011.

12. Karen DePauw, Dannette Beane, Shelli Fowler, Monika Gibson, Manuel A. Pérez-Quiñones, Jeremy Sippel, Jennifer Sparrow (2010) Up Close and Personal With Technology: Virginia Tech Case Study. Council of Graduate Schools 50th Annual Meeting, December 1-4, 2010, Washington, DC.

13. Stephen H. Edwards, M.A. Pérez-Quiñones (2008). Web-CAT: Automatically grading programming assignments. In *Proceedings of the 13th Annual Conference on Innovation and Technology in Computer Science Education (ITiCSE'08)*, pp. 328, New York, NY, USA. ACM.

Keynotes and Invited Talks

1. Manuel A. Pérez-Quiñones (2022) *I need my computer to understand Spanglish: The case for bilingual computer interfaces.* Invited Speaker for Hispanic Heritage Month JEDI Hour. University of Arkansas, College of Engineering. 2022-09-28. *https://news.uark.edu/articles/62013/college-of-engineering-jedi-hour-to-feature-talk-the-case-for-bilingual-computer-interfaces*

2. Manuel A. Pérez-Quiñones (2022) *Hey Google, Alexa or Siri, Set Language to Spanglish.* Invited Speaker to Google Assistant Research Team, Google. 2022-05-17.

3. Manuel A. Pérez-Quiñones (2022) *Keynote: Building a Community of Equity-Focused CS Educators.* Western Canadian Conference on Computing Education (WCCCE) 2022 - lite version. 2022-05-06. *http://www.cs.ubc.ca/wccce/2022-lite/*

4. Manuel A. Pérez-Quiñones (2022) *Usability Engineering for Bilingual Users. Invited speaker* to CISC275 Introduction to Software Engineering, Department of Computer Science, University of Delaware. 2022-04-28.

5. Manuel A. Pérez-Quiñones (2022) *Keynote: The importance of identity in the success of students from minoritized communities.* AGEP-NC Winter Alliance Meeting. 2022-01-14. *https://www.youtube.com/watch?v=MxuItxK1Itw*

6. Manuel A. Pérez-Quiñones (2022) *How the Ideology of Monolingualism Excludes Bilingual Users.* Invited Speaker to the Computer Science Equity and Justice in Computing Conversations, University of Illinois Urbana-Champaign. 2022-01-04. https://calendars.illinois.edu/detail/6976?eventId=33424968

7. Manuel A. Pérez-Quiñones (2021) *Keynote: The Ideology of Monolingualism in User Interface Design and Development.* The 9th International Conference in Software Engineering Research and Innovation (CONISOFT 21). San Diego Global Knowledge University, in San Diego, CA, USA, October 25-29, 2021. 2021-10-25. http://conisoft.org/2021/

8. Manuel A. Pérez-Quiñones (2021) *Everything I Need to Know About Diversity I Learned From Listening to Salsa.* Invited presentation for Hispanic Heritage Month, College of Computing and Informatics, UNCC. 2021-10-14

9. Manuel A. Pérez-Quiñones. (2020) *How Can Computer Science Education Address Inequities.* In Proceedings of the 26th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (KDD '20). Association for Computing Machinery, New York, NY, USA, 3581. DOI:https://doi.org/10.1145/3394486.3411063

10. Manuel A. Pérez-Quiñones (2019) *Perils of Underrepresentation in Computing.* Guest Speaker Texas Woman's University Harlan C. Miller Lecture and Awards Dinner, March 27, 2019. Invitation sponsored by CRA's Distinguished Lecturer Series.

11. Manuel A. Pérez-Quiñones (2019) *Perils of Underrepresentation in Computing.* Invited Speaker Computer Science Department, Oberlin College, Oberlin, OH, April 12, 2016.

12. Manuel A. Pérez-Quiñones (2019) *Keynote: Perils of Underrepresentation in Computing.* Keynote Speaker at Diversity Research Symposium: From Research to Action, Ball State University, Muncie, IN, October 24 & 25, 2014.

13. Manuel A. Pérez-Quiñones (2012) *Studying Personal Information Management as a Dual-Task Scenario.* Invited Speaker to Seminar Series at the School of Information and Library Science, University of North Carolina, Chapel Hill, March 23, 2012.

14. Manuel A. Pérez-Quiñones, Carlos Evia (2009) *Latinos in Virginia: Demographics*, Keynote presentation at the 1st Latino Constituency Conference and 3rd Encuentro de VALHEN, Virginia Tech, Blacksburg, VA, May 1st, 2009.

15. Manuel A. Pérez-Quiñones (2010) *Keynote: Diversity, Identity, Inclusion and Computing: One of these things is not like the others, or is it?* 2011 Annual Meeting of the Computing Alliance of Hispanic-Serving Institutions, April 27-29, 2010, San Juan, Puerto Rico.

16. Invited Speaker to University of Maryland, Baltimore Campus (UMBC), April 14-15, 2010. Broader audience talk: Diversity, Identity, and Inclusion, on April 14th. CS Talk: The Social Life of Personal Information, April 15th.

17. BOF: HispanicPhD Community, Leader: José Morales, Manuel A. Pérez-Quiñones. 2011 Ricard Tapia Celebration of Diversity in Computing Conference, San Francisco, CA, April 3-6, 2011.

18. "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.

19. "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.

20. Invited Panelist at NSF-funded Academic Workshop for Underrepresented Faculty and Senior Graduate Students, 11/30/07 – 12/2/07, Texas A&M.

21. "Social Software and Education", Presentation at Workshop CB CPATH: Rethinking Computer Science Education, Villanova University, Nov 9th, 2007.

22. "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.

23. "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.

24. "Cultural Interface Design", Computer Science Department, Eastern Michigan University, March 2005.

25. "Yet Another Approach on How to Teach OO Design Early in Computer Science", Computer Science Seminar Series, Villanova University, November 24, 2003.

26. "Multi-platform User Interfaces", AI Center Spring Seminar Series, Naval Research Laboratory, May 5, 2003.

27. "Mixed-Initiative Interaction = Mixed Computation", Ramakrishnan, N., Capra, R., Pérez-Quiñones, M.A. Presentation at the CS Department Seminar Series, October 24, 2001.

28. "Hispanics in the Academic Environment in the US", Invited presentation at the "CHI 2001 Development Consortium: Latin American."

29. "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.

30. "Advanced User Interface Software Architectures: Towards a Full-Participant Dialogue Partner", Dept. of Computer Science, University of Texas at El Paso, January 2000.

31. "Java's Reflection API," Dept. of Computer Science, University of Texas at El Paso, January 2000.

32. "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.

33. "A Conversational View of Human-Computer Interaction", Western Puerto Rican Linguistic Society, April 2, 1997, Mayagüez, Puerto Rico.

34. "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.

35. "A Collaborative Model of Feedback in Human-Computer Interaction", Conference in Human Factors in Computing Systems CHI'96, April 14-19, Vancouver, BC.

36. "Negotiating User-Initiated Cancellation and Interruption Requests", Conference in Human Factors in Computing Systems, CHI'96, April 14-19, Vancouver, BC.

37. "Conversational Dialogue in Graphical User Interfaces", Human Factors in Computing Systems CHI'95 Conference Doctoral Consortium, May 7-11, 1995, Denver, Colorado.

38. "Human-Computer Dialogue in a Graphical User Interface", Computer Science Department Research Seminar Series, United States Naval Academy, Annapolis, Maryland. April 1995.

39. "The Development of GW-Ada", 13th Annual National Conference on Ada Technology, King of Prussia, Pennsylvania. March 1995.

40. "Interacción entre el Humano y la Computadora", Colloquium, Departamento de Matemáticas, Recinto de Mayagüez, Universidad de Puerto Rico. December 1992.

41. "Direct Manipulation for the Intelligent Cockpit", Software Psychology, Washington, D.C. December 1992.

42. "Direct Manipulation for the Intelligent Cockpit", Graphics and User Interface Group Colloquium, The George Washington University, D. C. Spring 1992.

43. "MacApp: An Application Framework", Graphics and User Interface Group Colloquium, The George Washington University, D. C. Fall 1989.

44. "Experimental Design: Direct Manipulation Theory", Graphics and User Interface Group Colloquium, The George Washington University, D. C. Spring 1991.

45. "Designing User Interfaces with MacApp", Guest Speaker, Human-Computer Interaction Lab, Naval Research Laboratory, D. C. Winter 1989.

46. "The MacApp Report", Conference Faculty in the Mac World Exposition, Washington, D.C. April 1989.

47. "Language for Computer Graphics Programming", Computer Science Department Colloquium, Ball State University, Muncie, IN. Spring 1986.

Technical reports

I have co-authored over 30 technical reports. Visit my website for a full listing http://webpages.uncc.edu/mperez19/.

Students

PhD Advisees

1. Sayeda Fatema Mazumder, PhD student. Expected completion Spring 2023. Department of Software and Information Systems, UNC Charlotte.

2. Luce-Melissa Kouaho, PhD student. Co-Advisor with Dr. Marlon Mejías. Department of Software and Information Systems, UNC Charlotte.

3. Yao Wang, *Exploring the Role of Prospective Memory in Location-Based Reminders*, 2017-05-03. PhD Dissertation, Department of Computer Science, Virginia Tech.

4. Blake Sawyer, *The Physical-Social Context in Information Refinding*, 2016-05-05. PhD Dissertation Department of Computer Science, Virginia Tech.

5. Ben Hanrahan, *Getting Lost in Email: How and Why Users Spend More Time in Email than Intended*, 2014-12-04. PhD Dissertation, Department of Computer Science, Virginia Tech. Employment: Assistant Professor, College of Information Sciences and Technology, Penn State.

6. Ashley Robinson, *The Attitudes of African American Middle School Girls Toward Computer Science: Influences of Home, School, and Technology Use* , 2015-05-13. PhD Dissertation, co-chair with Dr. Glenda Scales. Employment: Intel, Arizona.

7. Turner, Scott Alexander, *Peer Review in CS2: the Effects on Attitudes, Engagement, and Conceptual Learning*, 2009-08-13. PhD Dissertation, Department of Computer Science, Virginia Tech, etd-08272009-003738. Employment: Assistant Professor, Department of Mathematics, Statistics & Computer Science, University of Wisconsin, Stout.

8. Tungare, Manas, *Mental Workload in Personal Information Management: Understanding PIM Practices Across Multiple Devices*, 2009-03-25. PhD Dissertation, Department of Computer Science, Virginia Tech, etd-04152009-191143. Employment: Engineer at Google.

9. Capra, Robert G., *An Investigation of Finding and Refinding Information on the Web*, 2006-02-16. PhD Dissertation, Department of Computer Science, Virginia Tech, etd-03022006-154809. Employment: Associate Professor at School of Information and Library Science, University of North Carolina at Chapel Hill.

10. Rode, Jochen, *Web Application Development by Nonprogrammers: User-Centered Design of an End-User Web Development Tool*, 2005-07-01. PhD Dissertation, Department of Computer Science, Virginia Tech, etd-07062005-152028. Employment: SAP, Germany.

11. Ali, Mir Farooq, *A Transformation-based Approach to Building Multi-Platform User Interfaces Using a Task Model and the User Interface Markup Language*, 2004-11-16. PhD Dissertation, Department of Computer Science, Virginia Tech, etd-05172005-041721. Employment: Engineer at Motorola.

12. Lewis, Tracy L., *Design Readiness:An Exploratory Model of Object-Oriented Design Performance*, 2004-07-16. PhD Dissertation, Department of Computer Science, Virginia Tech, etd-08062004-115926. Employment: Associate Professor, at Radford University, Department of Information Technology.

MS Advisees

1. William Ellis, *Information Scraps in the Smartphone Era*, 2016-01-16, MS thesis expected, Department of Computer Science, Virginia Tech. Employment: WillowTree Apps, Charlottesville, VA.

2. Priyanka Mohan, *Student perceptions of various hint features while solving coding exercises*, 2015-09-23. MS thesis, co-chair Dr. Stephen Edwards, Department of Computer Science, Virginia Tech.

3. Sheriff Olayinka Jolaoso, *TaskAmbient: A Study in Personal Task Management Visualization*,2015-05-28. MS thesis, Department of Computer Science, Virginia Tech. Employment: Associate User Experience Designer at Appfolio.

4. Ahuja, Ankit, *Contextinator: Recreating the context lost amid information fragmentation on the web*, 2013-06-01. MS Thesis, Department of Computer Science, Virginia Tech, 10919/23120Employment: Software Engineer at LinkedIn.

5. Shanahan, Daniel Patrick, *Intentional Information Fragmentation in Email Management*, 2012-08-29. MS Thesis, Department of Computer Science, Virginia Tech, etd-09162012-153029Employment: Software Engineer at Qualcom.

6. Vega, Edgardo Luis, *Communities of Tweeple: How Communities Engage with Microblogging When Co-located*, 2011-04-22. MS Thesis, Department of Computer Science, Virginia Tech, etd-05112011-222646Employment: Senior Software Engineer at Next Century Corporation.

7. Henry, James Arthur Goodwin, *Subiquitous: Supporting Ubiquitous Computing*, 2010-04-29. MS Thesis, Department of Computer Science, Virginia Tech, etd-05192010-144703

8. Ahuja, Sameer, *A Tale of Two Sites: An Explorative Study of the Design and Evaluation of Social Network Sites*, 2009-07-17. MS Thesis, Department of Computer Science, Virginia Tech, etd-07292009-181101Employment: Software Engineer at Google.

9. Tauro, Candida, *A Usability Evaluation and Content Analysis of Vizblog: an Online Conversation Discovery Tool*, 2008-04-23. MS Thesis, Department of Computer Science, Virginia Tech, etd-05082008-084417

10. Lambros, Stelios, *Investigating the Applicability of Information Foraging Theory to Mobile Web Browsing*, 2005-05-27. MS Thesis, Department of Computer Science, Virginia Tech, etd-05312005-190600

11. Bhardwaj, Yogita, *Reverse Engineering End-user Developed Web Applications into a Model-based Framework*, 2005-05-09. MS Thesis, Department of Computer Science, Virginia Tech, etd-05232005-144650Employment: Software Engineer at Microsoft.

12. Turner, Scott Alexander, *minimUML: A Minimalist Approach to UML Diagraming for Early Computer Science Education*, 2005-02-04. MS Thesis, Department of Computer Science, Virginia Tech, etd-05202005-103827Employment: Assistant Professor at UNC, Pembroke.

13. Vatrapu, Ravikiran, *Culture and International Usability Testing:The Effects of Culture in Interviews*, 2002-08-06. MS Thesis, Department of Computer Science, Virginia Tech, etd-09132002-083026Employment: Professor mso, Dept. of Information Technology Management (ITM), Copenhagen Business School, Denmark.

14. Ferreira, Raquel, *Culture and E-Commerce: Culture Based Preferences for Interface Information Design*, 2002-07-12. MS Thesis, Department of Computer Science, Virginia Tech, Employment: IBM.

Student Committees Served

I have served in over 50 student committees, with over 20 of them being PhD committees.

MS Independent Studies Supervised

I have supervised 11 independent students that served as the project for an MS Coursework.

MS Thesis Supervised at University of Puerto Rico, Mayagüez

1. Jaime Elias Colón (MS Thesis). Department of Electrical and Computer Engineering, University of Puerto Rico, Mayagüez, May 2000.

2. Miguel Velez-Rubio (MS Thesis). Department of Electrical and Computer Engineering, University of Puerto Rico, Mayagüez, May 2000.

3. Anibal Morales-Morell (MS Thesis). Department of Electrical and Computer Engineering, University of Puerto Rico, Mayagüez, Fall 2000.

4. Jesús Trespalacios (MS Thesis). Department of Electrical and Computer Engineering, University of Puerto Rico, Mayagüez, May 1999.

Undergraduate Research Projects Supervised

I am a strong supporter of undergraduate research. At Virginia Tech I co-started the Virginia Tech Undergraduate Research in Computer Science (VTURCS). At the University of Puerto Rico-Mayagüez, I was director of the Industrial Affiliates Program, the undergraduate research program in ECE. As a member of the Coalition to Diversify Computing, I co-chaired the CRA's Collaborative Research Experiences for Undergraduates (CREU). I advised numerous undergraduate research projects.

1. Halee Bennett, Event types for appointments in Calendar Systems, UNCC, Spring 2019

2. Rachel Kohler, Extending YAPM to support email, Virginia Tech, Spring 2015

3. Jackie Falatko, Redesign of Social Networking Site, Virginia Tech, Spring 2014

4. Erika Hoffman, An integrated project manager for the desktop, Virginia Tech, Fall 2013

5. Heather Price (Radford University), Going Social: Improving Social Navigation in the Virtual Town Square, Virginia Tech, Summer 2013

6. Rafael Burgos-Guntin (University of Puerto Rico-Mayagüez), Visualization Development for the Virtual Town Square Website, Virginia Tech, Summer 2013

7. Patrick Fiaux, Managing Personal Information with Web 2.0, Virginia Tech, Spring 2009

8. Tarish Smith, Idris Eltahir, CATspace: Using Facebook to Share Assignments Among Professors, Manuel A. Pérez Quiñones, Stephen Edwards, Ricardo Quintana-Castillo, Virginia Tech, Spring 2008, VTURCS Spring Symposium 2008, People Choice 1st place

9. Blake Sawyer, Michael Ziray, Large Screen Public Kiosk, Virginia Tech, Spring 2006, VTURCS Spring Symposium 2006, Industry Choice 3rd Place

10. Jaime Garcia Ramirez, minimUML - A Minimalist Approach to UML diagrams, Manuel A. Pérez Quiñones, Stephen Edwards, Scott Turner, Virginia Tech, Spring 2006, VTURCS Spring Symposium 2006, Faculty Choice 2nd place

11. Joseph Lanza, Iana Bakalova, The CS Connection: VT Brain, Virginia Tech, Spring 2005, VTURCS Spring Symposium 2005

12. Caleb Jones, Brent Robinson, Joseph Lanza, Iana Bakalova, The CS Connection: Faculty Finder, VTURCS Spring Symposium 2005, Virginia Tech, Spring 2005

13. Chris Eagan, Joseph Lanza, Iana Bakalova, 6th Floor McBryde Plasma Display, Virginia Tech, Spring 2005, VTURCS Spring Symposium 2005

14. Alyssa Sams, Personal Calendar Management in Multi-Platform User Interfaces, Virginia Tech, Spring 2005, VTURCS Spring Symposium 2005

15. 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, Virginia Tech, Spring 2005

16. Jed Lake, Alyssa Sams, CITIDEL Online Digital Library, Virginia Tech, Spring 2004, VTURCS Spring Symposium 2004

17. Travis Cherry, Managing Courses with CourseSite: The Professor's Perspective, Virginia Tech, Spring 2004, VTURCS Spring Symposium 2004, Industry Choice, 3rd place

18. Amit Nithian, A Voice Interface for Remote Control of Home Appliances, Virginia Tech, Spring 2004, VTURCS Spring Symposium 2004, People's Choice 3rd place

19. Travis Cherry, Extending the Reach of a Course Website: Anytime, Anywhere Accesss, Virginia Tech, Spring 2003, VTURCS Spring Symposium 2003, Faculty Choice 2nd place, Industry Choice 3rd place, People's Choice 3rd place

20. Dustin L. Arendt, Joseph C. Giacalone, Russell J. Hewett, Virginia Tech, Spring 2003, VTURCS Spring Symposium 2003

21. Jason Fields, Phone User Interface to Access Email, Virginia Tech, Spring 2002, VTURCS Spring Symposium 2002, tied Faculty Award 3rd place

Teaching

I have taught courses at both the undergraduate and graduate level. I have also created a number of courses on behalf of the department. This list contains the courses I have taught at UNC Charlotte, Virginia Tech, University of Puerto Rico-Mayagüez and several other institutions (as a part-time instructor before I completed my graduate studies).

University of North Carolina at Charlotte
- ITSC 2214 - Data Structures and Algorithms (Fall 2021, Fall 2022), Software and Information Systems, UNC Charlotte.
- GRAD 6000/8000 - Graduate Topics on Diversity and Inclusion (Spring 2021, Fall 2022), UNC Charlotte
- ITIS 4440 - Interactive Systems Design and Implementation (Spring 2020, Fall 2020, Spring 2021), Software and Information Systems, UNC Charlotte
- ITSC 2214 - Data Structures and Algorithms (Fall 2016), Software and Information Systems, UNC Charlotte. Co-Teaching with Dr. Celine Latulipe.
- ITIS 1212 - Introduction to Media Programming (Fall 2015), Software and Information Systems, UNC Charlotte. Co-Teaching with Prof. Bruce Long.
- ITSC 2214 - Data Structures and Algorithm (Fall 2016), Software and Information Systems, UNC Charlotte. Co-Teaching with Dr. Celine Latulipe.

Virginia Tech
- CS2114 Software Design & Data Structures (Fall 2014), Computer Science, Virginia Tech.
- CS5714 Usability Engineering (Spring 2014), Computer Science, Virginia Tech.
- CS5714 Usability Engineering (Spring 2013), Computer Science, Virginia Tech.
- CS5774 User Interface Software (Fall 2012), Computer Science, Virginia Tech. 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.
- CS1124 Introduction to Media Computation (Fall 2011), Computer Science, Virginia Tech.
- MAIS852 User Interfaces (Summer 2011), Computer Science, Virginia Tech.
- CS4244 Internet Software Development (Spring 2011), Computer Science, Virginia Tech.
- GRAD5984 Topics on Diversity and Inclusion for a Global Society (Fall 2011), Graduate School, Virginia Tech.

- CS6604 Personal Information Management (Spring 2010), Computer Science, Virginia Tech. special topics course.
- GRAD5984 Topics on Diversity and Inclusion for a Global Society (Fall 2010), Graduate School Department, Virginia Tech.
- CS5774 User Interface Software (Fall 2010), Computer Science, Virginia Tech.
- GRAD5984 Topics on Diversity and Inclusion for a Global Society (Fall 2009), Graduate School, Virginia Tech.
- CS5774 User Interface Software (Fall 2008), Computer Science, Virginia Tech.
- CS5774 User Interface Software (Spring 2007, Fall 2002, Fall 2001), Computer Science, Virginia Tech. 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.
- CS2984 Introduction to Media Computation (Spring 2007), Computer Science, Virginia Tech.
- CS5984 Personal Information Management (Spring 2006), Computer Science, Virginia Tech. special topics course.
- CS1706 Introduction to Object Oriented Development II (Fall 2006), Computer Science, Virginia Tech.
- CS6724 Multi-Platform User Interfaces (Fall 2004), Computer Science, Virginia Tech. special topics course.
- CS6604 Online Tools for Education (Spring 2005, Fall 2006), Computer Science, Virginia Tech. special topics course team taught with Dr. Stephen Edwards to support our work on Tools for CSEducation.
- CS3724 Introduction to Human-Computer Interaction (Fall 2005, Spring 2004, Spring 2003), Computer Science, Virginia Tech.
- CS6724 Multi-Platform User Interfaces (Fall 2004), Computer Science, Virginia Tech. special topics course.
- CS1706 Introduction to Object Oriented Development II (Spring 2005, Spring 2004), Computer Science, Virginia Tech. 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.
- CS2704 Object-Oriented Software Construction with C++ (Spring 2002, Fall 2002), Computer Science, Virginia Tech.
- CS5714 Usability Engineering (Fall 2000), Computer Science, Virginia Tech.

University of Puerto Rico at Mayagüez
- ICOM4015 Advanced Programming, Department of Electrical and Computer Engineering, UPR Mayaguez.
- ICOM4035 Data Structures, Department of Electrical and Computer Engineering, UPR Mayaguez.
- ICOM4036 Programming Languages, Department of Electrical and Computer Engineering, UPR Mayaguez.
- ICOM4009 Software Engineering, Department of Electrical and Computer Engineering, UPR Mayaguez.
- ICOM5999 Introduction to Java Programming, Department of Electrical and Computer Engineering, UPR Mayaguez. 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.
- ICOM5999 Human-Computer Interaction, Department of Electrical and Computer Engineering, UPR Mayaguez.

- INEL5995 Programming Graphical User Interfaces, Department of Electrical and Computer Engineering, UPR Mayaguez. I created this course as a special topics for senior students. It was a combination of Introduction to Java and User Interface Software topics.
- ICOM6015 Advanced Topics in User Interface Software, Department of Electrical and Computer Engineering, UPR Mayaguez. I created this course to support my research. It was offered only once before I left for VT.

US Naval Academy (Visiting Professor)
- SI304 Programming Languages (Spring 1995), Computer Science, US Naval Academy, Annapolis, MD.

Other courses/institutions
- CS335 Programming Languages, Computer Science, Ball State University.
- CS120 Data Structures, Computer Science, Ball State University.
- Introduction to Programming, Fundación Ana G. Mendez, Puerto Rico.
- Database Systems, Fundación Ana G. Mendez, Puerto Rico.
- Mini-Computers Systems Architecture, Computer Science, Universidad de Puerto Rico, Bayamón Campus .

Service

Committees at UNC Charlotte
- University Faculty Senate, UNCC, Fall 2022-present
- SIS Graduate Education Committee, CCI, Fall 2020-2022
- Chair, SIS Undergraduate Education Committee, CCI, Fall 2021-2022
- President, Latinx/Hispanic Faculty/Staff Caucus, Fall 2019-Spring 2022.
- Graduate Equity Audit, Graduate School, UNCC, Fall 2021
- Diversity Committee, Graduate School, UNCC, Fall 2020-2021
- College Graduate Education Committee, CCI, Fall 2020-2021
- College Review Committee, CCI, Fall 2019-2021
- Graduate Education Committee, Software and Information Systems Dept, Fall 2020-2022
- Vice-President, Latinx/Hispanic Faculty/Staff Caucus, Fall 2016-2019.
- Co-Chair of the Chancellor's Diversity Challenge Fund, Fall 2016-2017.
- Member of the Chancellor's Diversity Challenge Fund, Fall 2015-Spring 2016.
- Member of the College Diversity Liaisons, Provost Office, Fall 2015-Spring 2016.
- Member of the Mentoring Committee, Software and Information Systems, Fall 2016-present.

Committees at Virginia Tech
- Member of the Diversity Committee, Spring 2009-present.
- Member of the Executive Committee, Fall 2012-Summer 2014.
- Chair of the Graduate Program Committee, Fall 2012-Summer 2014.
- Member of the Graduate Program Committee, Fall 2008-Summer 2014.
- Member of the Undergraduate Program Committee, Fall 2002-2008.
- Member of a Faculty Search Committee, Fall 2003-Spring 2004.
- Member of a Faculty Search Committee, Fall 2002-Spring 2003.

- Co-Founder and Co-Chair of the Virginia Tech Undergraduate Research in Computer Science (VTURCS), Fall 2000-2012.
- Member of the Executive Committee, Fall 2000-Summer 2002.
- Member of a Faculty Search Committee, Fall 2000-Spring 2001.
- Member of a Faculty Search Committee for NVC, Fall 2001-Spring 2002.

Committees at UPR Mayagüez

- 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 Student Chapter, 1997-1999.

University Service at Virginia Tech

- Member of Search Committee for Latino/Hispanic Coordinator position in Multicultural Programs and Services, Virginia Tech (Spring 2013).
- Chair of Search Committee for Assistant Director of the Office of Recruitment and Diversity Initiatives at the Graduate School (Spring 2010).
- Member of Search Committee for Vice-President of Diversity and Inclusion (Spring 2010).
- Member of Search Committee for Faculty position in Electrical and Computer Engineering (Spring 2010).
- Member of the Provost Taskforce on Race and the Institution, and Co-Chair of Graduate Student Sub-committee, Virginia Tech (2006-2007).
- 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).
- Member of Several Committee for Director, Center for Human-Computer Interaction (2004).
- Member of Several Faculty Search Committees, Department of Computer Science (2000-present).
- Member of the Diversity Committee, College of Engineering (2009-2010).
- Multi-Cultural Fellow, Office of the Vice President for Multicultural Affairs, Virginia Tech (2004-2010).
- Member of the Advisory Board for S-STEM: Scholarships for Countering Obstacles to Minority Participation in the Professoriate Program, Department of Materials Science and Engineering, Virginia Tech, Fall 2009.
- Associate Member of the Race and Social Policy Research Center, Virginia Tech (2001-2005).
- Founding Member of the Hispanic Faculty and Staff Caucus, Virginia Tech (2002-present).

Professional Service for Diversity in Computing

- Search Committee for CRA Executive Director (2022)
- Chair Committee CMD-IT for University Award (2017-present).

- Advisory Board Member, CMD-IT: The Center for Minorities and People with Disabilities in IT (2016 - present)
- Selection Committee for Skip Ellis Early Career Award, CRA (2019-2020)
- Steering Committee for the ACM Richard Tapia Celebration of Diversity in Computing Conference (2014-2016).
- Co-Chair, Coalition to Diversify Computing (2014-2015).
- Invited Panelist in 2014 CMD-IT/CDC/CAHSI/AccessComputing Academic Career Workshop for Underrepresented Participants, March 2014 at the Allen Center at Northwestern University in Evanston, IL.
- Program Chair for the 2014 ACM Richard Tapia Celebration of Diversity in Computing, Seattle, WA.
- Organizing Committee for the 2013 ACM Richard Tapia Celebration of Diversity in Computing, Crystal City, VA.
- Co-Chair of Computer Human Interaction Mentoring (CHIMe) 2012 Workshop (http://chime.hci.cs.vt.edu/), Co-located with CHI 2012, Austin, TX, May 5-6, 2012. Co-Chairs: Ron Metoyer, Manuel A. Pérez-Quiñones.
- Member of the Steering Committee for the Richard Tapia Celebration of Diversity in Computing Conference, 2011-2013.
- Organizing Committee for the 2011 ACM Richard Tapia Celebration of Diversity in Computing, San Francisco, CA.
- Co-Chair for Richard Tapia Celebration of Diversity in Computing Conference, April 2009.
- Co-Chair of Computer Human Interaction Mentoring (CHIMe) 2010 Workshop (http://chime.hci.cs.vt.edu/chime/), Co-located with CHI 2010, Atlanta, 9-10 April, 2010. Co-Chairs: Ron Metoyer, Manuel A. Pérez-Quiñones.
- Past-Chair, Coalition to Diversify Computing (2011-2012).
- Invited Panelist in 2013 CMD-IT/CDC/CAHSI/AccessComputing Academic Career Workshop for Underrepresented Participants, April 11-14, 2013 at the Allen Center at Northwestern University in Evanston, IL.
- 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 for CREU: Collaborative Research Experiences for Undergraduates in Computer Science and Engineering, program sponsored by Alliance between CRA-W/CDC, 2006-2010.

Professional Service for Computing Education
- Member BPCnet.org Steering Committee, Computing Research Association, 2020-present
- Webmaster for the SIGCSE Organization, ACM Special Interest Group (2022-present)
- Member for the (inaugural) SIGCSE Technical Symposium Steering Committee, as representative of the SIGCSE Board - 2021-2022
- Technical Advisor for Center for Inclusive Computing, Northeastern University, 2021-2022
- At-Large Member for the SIGCSE Board, ACM Special Interest Group (2019-2022)
- Symposium Co-Chair for ACM SIGCSE 2019 50th Technical Symposium on Computer Science Education, Minneapolis, MN
- Program Co-Chair ACM SIGCSE 2018 49th Technical Symposium on Computer Science Education, Baltimore MD
- Associate Editor for the ACM Transactions of Computing Education (former ACM's JERIC), 2001-2013.

- Reviewer ACM Special Interest Group on Computer Science Education 2015.
- Reviewer ACM Special Interest Group on Computer Science Education 2014.
- Reviewer ACM Special Interest Group on Computer Science Education 2013.
- Reviewer ACM Special Interest Group on Computer Science Education 2012.
- Reviewer ACM Special Interest Group on Computer Science Education 2010.

Professional service for ACM SIGCHI

- Co-Chair for Work-In-Progress for ACM Special Interest Group in Computer-Human Interaction (CHI) Conference 2008, Florence, Italy.
- Associate-Chair for Papers for ACM Special Interest Group in Computer-Human Interaction (CHI) 2001.
- Reviewer ACM Special Interest Group in Computer-Human Interaction (CHI) 2014 Paper and Work-in-progress.
- Reviewer ACM Special Interest Group in Computer-Human Interaction (CHI) 2012 Work-in-progress.
- Reviewer ACM Special Interest Group in Computer-Human Interaction (CHI) 2010.
- Reviewer ACM Special Interest Group in Computer-Human Interaction (CHI) 2007.
- Reviewer ACM Special Interest Group in Computer-Human Interaction (CHI) 2005.
- Reviewer ACM Special Interest Group in Computer-Human Interaction (CHI) 2004.
- Reviewer ACM Special Interest Group in Computer-Human Interaction (CHI) 2002.
- Reviewer ACM Special Interest Group in Computer-Human Interaction (CHI) 2001.

Professional service for Personal Information Management

- Organizing Committee for "PIM 2013 — A Workshop Affiliated with Annual Meeting of the Association for Information Science and Technology 2013," Montreal, Canada, November 1-6, 2013.
- Program Committee for "Personal Information Management — PIM 2012, Workshop CSCW 2012: The 2012 ACM Conference on Computer Supported Cooperative Work," February 11-15, 2012, Seattle, Washington.
- Organizing Committee for "Personal Information Management: PIM 2009. Personal information intersections: What happens when PIM spaces overlap?" ASIS&T 2009 Workshop, November 7-8, 2009, Vancouver, BC, Canada.
- 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-Quiñones, ACM TOIS 26(4), September 2008.
- Organizing Committee for "Personal Information Management, SIGIR 2006 Workshop," August 10-11, 2006, Seattle, Washington.
- Organizing Committee for "The PIM Workshop: An NSF-Sponsored Invitational Workshop on Personal Information Management," January 27-29, 2005, Seattle, Washington.

Professional Service in HCI in Latin America

- Reviewer for Latin American Conference on Human-Computer Interaction 2013.
- Program Committee for the 1st Joint Conference Interacción & MexIHC 2012 & 13th International Conference Interacción Persona-Ordenador (INTERACCION) & IV Conference on Human-Computer Interaction (MexIHC) 2012.

- Member Steering Committee for Latin American Conference on Human-Computer Interaction (CLIHC) 2005-2011.
- 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.
- 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.
- Program Committee for Symposium Human Factors in Computing (Simpósio de Fatores Humanos em Sistemas Compatcionais, IHC) Brazilian HCI Conference, Nov 9-22, 2006.
- Member Technical Program Committee Interact 2005.
- Session Chair for Keynote Speaker Paul Dourish, Latin American Conference on Human-Computer Interaction, CLIHC 2005, Oct 23-26, 2005, Cuernavaca, México .
- Co-Chair for Papers for Latin American Conference on Human-Computer Interaction (CLIHC) 2005.
- Reviewer for Special Issue HCI in Latin America, Journal Interaction with Computers, 2004.
- Co-Chair for Workshops and Tutorials for Latin American Conference on Human-Computer Interaction (CLIHC) 2003.

Professional Service for other HCI Conferences and Journals
- Member Technical Program Committee Computer-Aided Design of User Interfaces (CADUI) 2006.
- Member Technical Program Committee Computer-Aided Design of User Interfaces (CADUI) 2004.
- Reviewer journal Interaction with Computers 2013 (2 different submissions).
- Reviewer for ACM Conference on Computer Supported Cooperative Work 2012.
- Reviewer for Workshop on the Impact of Pen-based Technology on Education (WIPTE) 2007.
- Reviewer for IEEE Portables 2007.
- Reviewer for Computer-Aided Design of User Interfaces (CADUI) 2004.
- Member Technical Program Committee Computer-Aided Design of User Interfaces (CADUI) 2006.
- Member Technical Program Committee Computer-Aided Design of User Interfaces (CADUI) 2004.
- Reviewer journal Interaction with Computers 2013 (2 different submissions).
- Reviewer for ACM Conference on Computer Supported Cooperative Work 2012.
- Reviewer for Workshop on the Impact of Pen-based Technology on Education (WIPTE) 2007.
- Reviewer for IEEE Portables 2007.
- Reviewer for Computer-Aided Design of User Interfaces (CADUI) 2004.

Service to Latinos in the State of Virginia
- Vice-President for the non-profit Virginia Latino Higher Education Network (VALHEN), 2012-2016.
- Elected At-Large Member of the Board for the non-profit Virginia Latino Higher Education Network (VALHEN), 2008-2012.

Other Professional Service

- Member Search Committee for Executive Director CRA, 2021
- 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.
- Organizing Committee for the NSF-Sponsored Invitational Workshop on Personal Information Management, Jan 2005, Seattle.
- NSF Proposal reviewer, July 2011.
- 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.

Membership in Professional Organizations

- Member of Association of Computing Machinery (ACM) (1986-present).
- Member of ACM's Special Interest Group on Computer-Human Interaction (SIGCHI) (1986-present).
- Member of ACM's Special Interest Group on Computer Science Education (SIGCSE) (1986-present).
- Member of the Coalition to Diversify Computing (CDC) (2006-2016).
- Member IEEE Computer Society (1997-2014).
- Member of the SIGCHI International Advisory Board (1997-2000).
- Member Computer Professionals for Social Responsibility (CPSR).

Software products and websites

1. Designer and webmaster for the SIGCSE Organization website (https://sigcse.org).

2. Template system in PHP, Open Source at Github (https://github.com/mapq/Template-System-in-PHP)

3. Personal website. Developed in PHP, using JQuery and Bootstrap. (http://perez.cs.vt.edu/)

4. Website for CHIMe - HCI Mentoring workshop (http://chime.hci.cs.vt.edu/)

5. Center for Human-Computer Interaction - initial version of the site, currently maintained by others. Developed in PHP. (http://hci.cs.vt.edu/)

6. Virginia Tech Undergraduate Research in Computer Science (VTURCS) - initial version of the site, currently maintained by others. Developed in PHP. (http://vturcs.cs.vt.edu/)

7. 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 in Java. (http://minimuml.cs.vt.edu/)

8. SmallAda - 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. Developed in Object-Pascal with MacApp.

9. GWU/Mac AdaEd - Designed and implemented 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. Developed in C++.

10. Worked on commercial port of Wayne Gretzky Hockey game from Amiga to Macintosh, as contractor for Bethesda Softworks.

Other Employment History

Consulting
- Technical Advisory for Center for Inclusive Computing, Northeastern (Feb 2021-Feb 2022)
- Consultant for Harmonia, Blacksburg, VA (2006-2007)
- Consultant for Scholar One, Charlotesville, VA (2003-2005)
- Consultant for Inter-American University, PR. Training to Faculty of the Computer Science Department (May 2000)
- Consultant for Bethesda Softworks, Bethesda, MD ported game from Amiga to Macintosh (Jan 1990 - Jun 1990)

Personal Data
- Bilingual in English and Spanish.
- Married to Dr. Olga Padilla-Falto with two children.