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EDUCATION

1991-1999 **Ph.D in Computer Science**
Graduate School and University Center, CUNY, New York, New York

1983- 1988 **Bachelor of Science in Computer Engineering**
University of Puerto Rico, Mayagüez Campus, Mayagüez, P.R.

WORK EXPERIENCE

- 1999-
present **Associate Professor of Computer Science**
Hampshire College, School of Cognitive Science, Amherst, MA
- 2007-2012 **Special Presidential Assistant for Diversity and Multicultural Education**
Hampshire College, Amherst MA
- Spring 2007 **Acting Associate Dean of Multicultural Education**
Hampshire College, Amherst MA.
- Summer
2001 **Visiting Instructor**
Brandeis University School of Continuing Studies, Waltham , MA
 - Teaching two graduate sections of a course in Perl Programming, both at the Brandeis campus and at an EMC site.
- Sept 1997-
May 1998 **Substitute Instructor**
City College of New York, Department of Computer Science, New York , NY
 - Teaching courses in programming languages and data structure
- Sept 1993-
May 1997 **Graduate Fellow**
Graduate School and University Center , CUNY, New York, NY
 - Performing installation, maintenance, and training of a Unix-based research computer laboratory.
- 1988-1991 **Process Support Engineer**
Abbott Chemicals Inc., Barceloneta, P.R.
 - Designing, implementing, testing, giving maintenance, and training personnel in the use of computerized production lines.

PEER-REVIEWED PUBLICATIONS

From Orthography to Semantics: a Study of Morphological Processing through Deep Learning Neural Networks

To appear in the Proceedings of the 2018 World Congress on Computational Intelligence

An Empirical Comparison of Genetically Evolved Programs and Evolved Neural Networks for Multi-agent Systems Operating under Dynamic Environments

2015 Genetic and Evolutionary Computation Conference (GECCO) Companion Volume

On the Effect of Genetic Coding and Diversity of Evolutionary Neural Networks under Changing Environmental Conditions

2014 World Congress on Computational Intelligence

Evolution of NN for the Design of Virtual Agents under Limited Resources Constraints

Proceedings of the 2007 International Joint Conference on Neural Networks.

The Digital Divide

Chapter in *The Handbook of Information Security*, published by John Wiley & Sons, 2005.

The Digital Divide

Chapter in *The Internet Encyclopedia*, published by John Wiley & Sons, 2004.

Evolution of Hierarchical Neural Networks for Time-dependent Cognitive Processes: Key Recognition for Musical Compositions

Proceeding of the 2003 Congress on Evolutionary Computation.

Disruption Analysis for Neural Network Topology Evolution Systems

Proceedings of the International Conference on Neural Information Processing, 2002.

Genetic evolution of neural networks that remember

Proceedings of the Joint International Conference on Neural Networks, 2002.

Genetic Algorithms and the Evolution of Neural Networks for Language Processing

CELE-Twente Workshop on Language Technology, 2000.

A New Metric for Evaluating Genetic Optimization of Neural Networks.

Proceedings of the First IEEE Symposium on Combinations of Evolutionary Computation and Neural Networks, 2000.

Exploring the Relationship Between Neural Network Topology and Optimal Training Set by Means of Genetic Algorithms.

Proceedings of the International Conference on Neural Networks and Genetic Algorithms, 1999

Genetic Optimization of NN Topologies for the Task of Natural Language Processing.

International Joint Conference on Neural Networks, 1999

GRANTS

2011-2016 **National Science Foundation Grant 0966086: Attracting and Retaining Promising Transfer Students into STEM Fields**

Principal Investigator and manager for 5-year \$441550 project supporting underrepresented community college transfer students in the sciences.

PRESENTATIONS

2015 **Genotype Coding, Diversity, and Dynamic Evolutionary Neural Network Environments: A Study on an Multi-agent System**

Genetic and Evolutionary Computation (GECCO) Hot off the Press Presentations

2012 **Intergroup Dialogues and Inclusive Campus Climates: A Model for Faculty and Staff Development**

Presented at the 2012 National Conference on Race and Ethnicity in Higher Education (NCORE)

2012 **Collaborating for Change through Action and Research: Lessons Learned during the Five College IGD Initiative**

Presented at the Social Justice in Education Forum, UMass Amherst

2000 **Genetic Evolution of Sensors and Topology for a Neurally Controlled Robot.**

Workshop Proceedings of the Genetic and Evolutionary Computation Conference (GECCO-2000)

2000 **Why do we need to close the digital divide?**

Presented at the 2000 Annual meeting of the Puerto Rican Studies Association.

1998 **Optimizing initial neural network configurations for the task of natural language processing.**

Presented at the 1998 AAAI/SIGART Doctoral Consortium, Madison Wisconsin. Also presented as a poster at the AAAI Fifteenth National Conference on Artificial Intelligence.

1998 **Neural network pruning and topology for natural language processing.**

Presented as a poster at the 11th Annual CUNY Conference on Human Sentence Processing, 1998.

PEDAGOGICAL WORKSHOPS

AY 2013- **Participant, Teaching Circle on Managing Difficult Classroom Conversations**

2014 Organized by Hampshire College's Center for Teaching and Learning

Co-organizer, Five Colleges Faculty Seminar on Dialogic Practices in the Classroom

AY 2012 Organizing and facilitating faculty conversations on ways to incorporate dialogic techniques into classroom practices.

- 2012 **Organizer, LADO Meeting**
Organized and hosted the Fall 2012 Meeting of the Liberal Arts Diversity Officers (LADO)
- 2009,2010 **Co-Organizer, Summer Intergroup Dialogue Training Institute**
Organizing three-day-long institute that trained 120 college employees on facilitating dialogues on race and ethnicity, spirituality, gender, and rank and class.
- 2008 **Trainee, Qualifying Seminar for Administration and Interpretation of Intercultural Development Inventory**
Intercultural Communication Institute, Minneapolis, MN
- 2002 **STEMTEC Fellow**
NSF funded project investigating the scholarship and practice of teaching.
- 2002 **Participant, Case Studies in Science Summer Workshop**
Investigating Ways to Design and Deploy Student-centered Courses.
- 2001, 2002 **Participant, SENCER Summer Institute**
NSF funded institute on science education for new civic engagements and responsibilities.

REVIEWING AND OUTSIDE COMMITTEE WORK

- Summer 2017 **External Evaluator, Faculty Reappointment and Promotion Process**
For Goucher College
- Spring 2017 **NSF S-STEM Grant Proposal Review Panel**
Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of the National Science Foundation
- Fall 2016 **External Evaluator, Faculty Reappointment and Promotion Process**
For University of South Carolina Beaufort and Adelphi University
- Summer 2016 **NSF S-STEM Grant Proposal Review Panel**
Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of the National Science Foundation
- Fall 2014 **NSF S-STEM Grant Proposal Review Panel**
Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of the National Science Foundation
- November 2014-present **Member, Hitchcock Center for the Environment Board of Trustees**
- Fall 2013 **NSF S-STEM Grant Proposal Review Panel**
Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of the National Science Foundation
- Spring 2013 **Control & Cybernetics**
Peer review of Article Submission
- Fall 2012 **Journal of Diversity in Higher Education**
Peer review of article submission.
- Summer 2006 **Intelligent System Design and Applications**
Peer review of papers for Artificial Intelligence Conference.
- Spring 2006 **CCSCE 2006**
Peer review of papers for the Annual Meeting of the Consortium for Computer Science in Colleges, Eastern Conference.
- September 2005 **National Science Foundation Panel**
Reviewing Grant Proposals to the Information and Intelligent Systems Text Program.
- July 2005 **National Science Foundation Panel**
Reviewing Grant Proposals to the Information and Intelligent Systems Advance Learning Technologies Program.
- April 2005 **BioSystems Journal.**
Peer Review of Paper.
- 2003 **The Internet Encyclopedia.**
Peer review of two chapter submissions.

SELECTED RECENT COMMITTEE WORK

- Fall 2017-Present **Member, Presidential Search Committee**
Selecting Hampshire College's next President from national and international candidates

Fall 2017- Present	Budget and Priorities Committee
Academic years 2013- 2014 and 2014-2015	Member, Campus Committee on Faculty Reappointment and Promotion (CCFRAP) CCFRAP is the campus body responsible for making recommendations regarding faculty reappointments and promotions.
Spring 2013-Spring 2014	Community Review Board (CRB) Panellist CRB is the body at Hampshire College that hears complaints against students related to our Code of Conduct and Norms of Community Living
Fall 2013 – Spring 2016	Co-Chair, Intellectual Property Policy Committee Developed Hampshire College's Intellectual Property Policy.
Academic Year 2012- 2013	Computer Games Search Committee Performing the search for our now-appointed permanent-track assistant professor in Computer Games

AWARDS

1998-1999	Five Colleges/Mendenhall Fellowship Awarded to minority doctoral candidates in the final stage of completing their degrees.
1994-1998	Stanton Heiskell Center Fellow Researching ways in which technology can be used to enhance education of at-risk high school students.
1996	Belle Zeller Fellow Annual recognition of student involvement in community service.

VOLUNTEER ACTIVITIES

September 2017- Present	Clerk, and Member of Executive Committee, Hitchcock Center for the Environment Board of Trustees
November 2014- Present	Member, Hitchcock Center for the Environment Board of Trustess
2008-2009	Board of Trustees, The Common School An Innovative, Child-Centered School for Children Ages 3-12 Amherst, MA
2000-2005	Board Member, Latino Scholarship Association Providing college scholarships to deserving students of color in the Pioneer Valley.
1995-1998	Student Member, Computer Science Department Executive Committee, Graduate School and University Center, CUNY.
1995-1997	DSC (Doctoral Student Council) member The DSC is the student Government Body of CUNY's Graduate Center.
1995-1996	Board Member, Center for Puerto Rican Studies Community Advisory Board, Hunter College, CUNY.
1995	Boston → New York AIDS ride Raising funds to support AIDS community groups serving New York City.
1993-1995	Coordinator, AELLA (Association of Latino and Latin American Student)
1994-1995	Member, Strategic Planning Committee, Graduate School and University Center This committee was assembled by the President of the Graduate Center, and had a its mandate to make recommendations that would guide all decision-making processes at the Graduate Center.

REFERENCES

Available upon request

