Jaime J. Dávila

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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

Fall 2019-	Senior Lecturer II
Present	University of Massachusetts - Amherst
	Associate Professor of Computer Science
present	Hampshire College, School of Cognitive Science, Amherst, MA
_	(on leave fall 2019-Spring 2023)
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	Visiting Instructor
2001	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-	Substitute Instructor
May 1998	City College of New York, Department of Computer Science, New York , NY
	Teaching courses in programming languages and data structure
Sept 1993-	Graduate Fellow
May 1997	Graduate School and University Center, CUNY, New York, NY
, , ,	Performing installation, maintenance, and training of a Unix-based research computer laboratory.

Abbott Chemicals Inc., Barceloneta, P.R.

1988-1991 Process Support Engineer

Designing, implementing, testing, giving maintenance, and training personnel in the use of computerized production lines.

SELECTED COMMITTEE WORK

CICS.

Fall 2021-	Member, Campus IT Program Steering Committee
Present	Providing guidance to director of the IT Program
Fall 2021-	Chair, Teaching Development Committee
Present	Developing college programming oriented towards improving overall faculty teaching capabilities.
Summer	Member, Opportunity Hire Search Committee.
2021	Met through the summer to prepare and carry out interview process, evaluate application materials, and prepare a recommendation to be presented to the CICS faculty.
AY 2021	Member, ad hoc Committee studying and redesigning CICS introductory
	course sequence.
AY 2021	Core member, Committee Against Racism and for Equity.
	Met during the Summer and fall of 2020 to to build a long-term Inclusion and Antiracism Action Plan for

AY 2020 CICS Ah Hoc Committee on the Undergraduate Curriculum.

Compiling information about computer science programs at institutions across the United States, and comparing their course sequence and curricula to ours. Committee met approximately every other week during the fall semester.

AY 2020 CICS Diversity Committee.

Advising the Director for Diversity and Inclusion on programmatic issues.

GRANTS

Fall 2014

December 1 National Science Foundation Grant 2130070

2021-Present Co-PI, Boosting Access to Data Science Scholars

Designing and implementing programs to enhance Computer Science education programs for members

of economically disadvantaged populations.

Fall 2019- National Science Foundation Grant 1923765

Present Co-PI, HDR DSC: Collaborative Research: The Data Science WAV: Experiential Learning with Local

Community Organizations. Providing undergraduate student with hands-on data science experiences

within local community organizations.

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.

NSF S-STEM Grant Proposal Review Panel

the National Science Foundation

REVIEWING AND OUTSIDE COMMITTEE WORK

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	Parisuran CICCOT 2000 Technical Cumprasium on Commuter Caianae Education
AY 2022	Reviewer, SIGSCE 2022 Technical Symposium on Computer Science Education Position and Curricula Initiatives papers
AY 2022	Reviewer, SIGSCE 2022 Technical Symposium on Computer Science Education Nifty Assignment papers
AY 2022	Reviewer, 2022 Consortium for Computing Sciences in Colleges Northeastern Region
Fall 2021	Judge, Hack(her) 413 Hackathon UMass Amherst
Spring 2021	Judge, Hack UMass Hackathon UMass Amherst
	NSF IUSE Grant Proposal Review Panel
Winter 2020	Reviewing and evaluating proposals submitted to the Improving Undergraduate STEM
	Education: Education and Human Resources Division of the National Science Foundation
	NSF S-STEM Grant Proposal Review Panel
Spring 2019	Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of
	the National Science Foundation
Summer	NSF S-STEM Grant Proposal Review Panel
2018	Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of
2010	the National Science Foundation
Summer	NSF S-STEM Grant Proposal Review Panel
2017	Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of
	the National Science Foundation
Summer	External Evaluator, Faculty Reappointment and Promotion Process
2017	For Goucher College
Ci 2017	NSF S-STEM Grant Proposal Review Panel
Spring 2017	Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of the National Science Foundation
	External Evaluator, Faculty Reappointment and Promotion Process
Fall 2016	For University of South Carolina Beaufort and Adelphi University
	NSF S-STEM Grant Proposal Review Panel
Summer	Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of
2016	the National Science Foundation
	and tradefine describe to difficulties.

Reviewing and evaluating proposals submitted to the Division of Undergraduate Education of

November	
2014-	Member, Hitchcock Center for the Environment Board of Trustress
present	
	NSF S-STEM Grant Proposal Review Panel
Fall 2013	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	Intelligent System Design and Applications
2006	Peer review of papers for Artificial Intelligence Conference.
	CCSCE 2006
Spring 2006	Peer review of papers for the Annual Meeting of the Consortium for Computer Science in Colleges,
	Eastern Conference.
September	National Science Foundation Panel
2005	Reviewing Grant Proposals to the Information and Intelligent Systems Text Program.
	National Science Foundation Panel
July 2005	Reviewing Grant Proposals to the Information and Intelligent Systems Advance Learning
<i>vary</i> 2 000	Technologies Program.
	BioSystems Journal.
April 2005	Peer Review of Paper.
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2003	The Internet Encyclopedia.
	Peer review of two chapter submissions.

PEDAGOGICAL WORKSHOPS

AY 2013- 2014	Organized by Hampshire College's Center for Teaching and Learning
AY 2012	Co-organizer, Five Colleges Faculty Seminar on Dialogic Practices in the Classroom 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) Co-Organizer, Summer Intergroup Dialogue Training Institute
2009,2010	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.

PEER-REVIEWED PUBLICATIONS

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

In the Proceedings of the 2018 World Congress on Computational Intelligence

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

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.*

Proceedings of the 2007 International John

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*

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.

AWARDS

1998-1999 Five Colleges/Mendenhall Fellowship

Awarded to minority doctoral candidates in the final stage of completing their degrees.

Stanton Heiskell Center Fellow

1994-1998 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	Member of Executive Committee, Hitchcock Center for the Environment Board of Trustees
November 2014- Present	Member, Hitchcock Center for the Environment Board of Trustress
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