# J. HOLLY DEBLOIS

## PERSONAL INFORMATION

email hdeblois@gmail.com

## OBJECTIVE

As a practicing computer scientist with Adjunct Professor and Teaching Assistant experience, I would like to teach Computer Science in Fall 2023.

## EDUCATION

PhD	2019	Computer Science, University of Massachusetts Boston
MS	1976	Applied Mathematics, Harvard University
BA	1970	Comparative Government, Smith College

## ACADEMIC EXPERIENCE

	2017-2019 Computer Science Dept., UMass Boston	
Teaching Assistant	CS240 Programming in C Supervisor: Prof. Ming OUYANG	
	CS240 Programming in C	
	CS210 Programming in java	
	2011-2013 Computer Science Dept., UMass Boston	
Teaching Assistant	CSIT114 Intro to java Supervisor Prof. Glenn Hoffman	
Instructor	CS285L Ethics in Computing, Spring and Fall 2012 Supervisor: Prof. Peter FEJER	
Teaching Assistant	CS240 Intro to C Supervisor: Prof. Ron Cheung	
	<sup>2009-2010</sup> John O'Bryant School of Math and Science, Boston MA	
Instructor	Taught one dual-enrollment course for each of 3 semesters:	
	CS114L Intro to CS	
	CSIT110 Intro to Programming	
	Supervisors: Prof. Peter FEJER, UMBCS, and Mike Sullivan, JOBSMS	
	2005-2006 Math Dept., Endicott College, Beverly Farms, MA	
Adjunct Professor	Taught required statistics courses, Fall 2005 and Spring 2006.	
	2001-2002 Math Dept., Endicott College, Beverly Farms, MA	
Adjunct Professor	Taught required statistics courses, Fall 2000 and Spring 2001.	

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## RESEARCH EXPERIENCE

	2020-2021	Technical Tasks
Consultant	Rehosted webs	site to cloud.
	Produced a vio programs and a surrogate for	deo on infinities, the countably infinite number of possible computer the far larger uncountably infinite number of functions, which can be taken as the variety of human behavior.
	Rehosted the g	graphics for an article to meet enhanced production specifications.
	2016-2019	Parallel Processing/OMP and CUDA
High Performance Computing Lab	Thesis: Develoy Tukey data dep parallelizing so Other projects: Developed a so Advisor: Prof.	ped a much faster parallel algorithm in C and R for computing simplicial and pths, used by statisticians. Enhanced performance by rehosting and o over 100,000 items can be processed in under 80 seconds. : Developed a convolutional network for deep learning. cene classifier for GPU using CUDA and C. Ming OUYANG.
	2014-2016	Sensor Networks Research
Networking Lab	Designed and Supervisor: Pr	implemented low-level wireless protocols. of. Duc Tran.
	2012-2014	Design Patterns/Threads/Algorithms
Software Engineering	Designed and design method Supervisor: Pr	implemented an inbody communication system. As team leader, using agile lology, designed and implemented a molecular communication network. of. Junichi Suzuki.
	Retranslated A Supervisor: Ca	Archimedes iterative algorithm from Greek. Arl OFFNER.
	OTHER GRADUA	TE SCHOOL EMPLOYMENT
Lead Operator	2008-2017 Supervisor: Le	UMass CS UNIX-PC Lab: Monitored performance, trained operators.
	OTHER PROFESS	SIONAL EXPERIENCE
	2020-2023	Private Trust, — Newport, RI
Executor	Performed req	uired legal and administrative tasks and made distributions.
Consultant	Assisted with I Supervisor: E.I	historical family research. R. DEBLOIS
	2000-2003	AXIAM, INCORPORATED, — Gloucester MA
Director of Software	Customized Po metrology pro software for pa Supervisor: Do	Cs and installed software product. Designed and implemented code for ducts measuring jet aircraft engine parts. Advised legal team regarding atents. Supported field engineers. onald LOHIN.
	1999-2000	AT&T, INC., — Herndon VA

Production Spt.Under contract to IBM, Inc., ran JCL and COBOL high-end billing software jobs 24x7 onProgrammerMVS/IBM mainframes, computing phone bills for Fortune 500 companies. Modeled inputflows to speed backout of erroneous input data. Corrected corporate disaster recovery testprocedures to allow stored data tapes, simulating data-driven software.

### PUBLICATIONS AND PATENTS

DeBlois, J. Holly, "Parallel Computation of Bivariate Point Data Depths and Display of Intrinsic Depth Segments", *STAT Wiley Online Library*, Published online: 19 June 2020, https://doi.org/10.1002/sta4.250.

DeBlois, Jane Holly, "Parallel Computation of Bivariate Point Data Depths and Display of Intrinsic Depth Segments" (2019). *Graduate Doctoral Dissertations*. 527. https://scholarworks.umb.edu/doctoral\_dissertations/527/.

Suzuki, Junichi, H. Budiman, T. Carr, J.H. DeBlois, "A Simulation Framework for Neuron-Based Molecular Communication", *Procedia Computer Science*, 2013, 24: 103 – 113.

DeBlois, J.H., H. Budiman, D. Wang, T. Carr, A. Varma, P. Jain, Posterboard, "Nanonetworks Signal System for Neuron-Based Molecular Communication", GE Global Research Center, 2013.

DeBlois, J.H., 2011, "Rotor assembly system and method", US Patent #7,979,233.

DeBlois, J.H. and Lee, R.M., "Rotor assembly system and method", 2010, US Patent #7,739,072.

DeBlois, J.H. and Lee, R.M., "Rotor assembly system and method", 2005, US Patent #6,898,547.

Malliaris, A.C., DeBlois, J.H., "Overstated safety belt use rates – evidence, consequences, and remedies", *SAE Transactions*, 1998, 758-772.

Malliaris, A.C., K.H. Digges, J.H. DeBlois, "Relationships between crash casualties and crash attributes", *SAE Transactions*, 1997, 576-587.

Malliaris, A.C., J.H. DeBlois, K.H. Digges, "Light vehicle occupant ejections – a comprehensive investigation", *Accident Analysis & Prevention 28* (1), 1996, 1-14.

Malliaris, A.C., J.H. DeBlois, K.H. Digges, "Air bag field performance and injury patterns", *SAE Transactions*, 1996, 751-774.

Malliaris, A.C., K.H. Digges, J.H. DeBlois, "Injury patterns of car occupants under air bag deployment", *SAE Technical Paper 957869*, 1995.

Malliaris, A.C., K.H. Digges, J.H. DeBlois, "Evaluation of air bag field performance", *SAE Transactions*, 1995, 1513-1534.

Malliaris, A.C., J.H. DeBlois, "Pivotal characterization of car rollovers", *Proceedings: International Technical Conference on the Enhanced Safety of Vehicles*, 1993, 721-728.

#### TOP SKILLS

 

 Advanced
 C/C++, R, OMP, JAVA, CUDA, XML, HTML, Linux, Git, algorithms, computational geometry, IATEX, object-oriented design, agile design methodologies, theory of computation

 Intermediate
 PYTHON, PERL, TCP/IP, COBOL, JCL, FORTRAN, ADA, graphics, classifiers, computer vision, design patterns, sensor networks, SQL, Microsoft Windows, Apache2, cloud computing

## OTHER INFORMATION

Honors and Awards	2013 · Honor 2000 · Comm 1985 · Comm	rable Mention, GE Global Research Center Student Symposium nendation for Disaster Recovery Test Improvement, AT&T, Inc. nendation for Excellence on Test Completion, The BDM Corp.
Community and Outreach	2022-2023 · U 2015-2017 · O 2012-2013 · S	Jsher, Trinity Church Boston, Boston, MA Dral Presentations on the Internet at the Black Girls Code Camp Blideshow, the Internet, at UMass Boston Summer Camp Day
Languages	English · French · Greek · Mandarin ·	<ul> <li>Native speaker</li> <li>Intermediate (conversationally fluent)</li> <li>Basic (simple words and phrases)</li> <li>Basic (simple words and phrases)</li> </ul>

## ADDITIONAL EDUCATION

1998-1999	Chubb Computer Services, certificate in COBOL — Herndon, VA
1982	The BDM Corp., course in artificial intelligence – McLean, VA
1981-1982	George Washington University, courses in economics – Washington, DC
1973-1974	MIT, courses in computer science and applied math – Cambridge, MA
1970-1971	Boston University, courses in physics – Boston, MA

## PRIOR EMPLOYMENT

1999-2010	President, DeBlois Associates, Inc Washington, DC
1990-1998	Vice-President, Data Link, Inc. – Washington, DC
1992-1996	Director, Annisquam Yacht Club Summer Programs - Gloucester, MA
1982-1990	Senior Staff Member, The BDM Corporation – McLean, VA
1976-1977	Operations Research Analyst, US Dept of Transportation – Camb., MA
1971-1973	Research Assistant, Eaton-Peab. Lab of Physiology, MEEI – Boston, MA
1970-1971	Research Assistant, Irwin Lab of Inflammation, MEEI – Boston, MA

March 18, 2023