Curriculum Vitae

Lori Carter

Point Loma Nazarene University Mathematical, Information and Computer Sciences Dept. San Diego, CA 92106 619-849-2352 loricarter@pointloma.edu

http://www.pointloma.edu/MICS/FacultyStaff/Carter.htm

Edu	Education			
	University of California, San Diego, La Jolla, CA			
	Ph.D. in Computer Science	2002		
	Dissertation: "Compiler and Hardware Predicated Dependency Analysis and Sch	eduling"		
	California State University, Northridge, Northridge, CA			
	M.S. in Computer Science	1985		
	Thesis: "The Effects of Indentation on Debugging"			
	Point Loma College, San Diego, CA			
	B.S. in Speech Communication Theory	1979		
	Graduated summa cum laude			
Aw	Awards			
	Point Loma Nazarene University internal grant recipient for A Working	2020		
	Gathering of Computer and Data Scientists for the Furtherance of Ethics			
	Modules in Computation			
	SIGCSE Special Projects Grant for Developing Ethics Modules for Core CS and	2019		
	DS Courses			
	Sabbatical – "Creating Ethics Modules for Core Courses in Computer Science	2019		
	Point Loma Nazarene University Alumni grant for Helping K-12 Teachers to	2017		
	Inspire Future Coders			
	NICE C CTEM and for a shall such in a in Community in a life of the same	2045		
	NSF S-STEM grant for scholarships in Computational Science	2015		
	Point Loma Nazarene University Alumni grant for development of a computer	2014		
	platform for computational science education and research	2014		
	placionii for compatational science cadeation and research			
	Sabbatical – "Development of a Computational Science Minor."	2012		
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	Dean's award for outstanding teaching, Point Loma Nazarene University	2007		
	Point Loma Nazarene University Alumni grant for advancing interdisciplinary	2006		
	Computer Science across the campus.			
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Point Loma Nazarene University RASP grant for the development of	2003
simulators to aid in Computer Science instruction, and to provide research	
experience for undergraduate students.	
Teaching Experience	
Point Loma Nazarene University	
Tome Loma Nazarene omversity	
Professor of Computer Science	2007-present
Developed Service Learning curriculum	
Developed Computational Science curriculum	
Honors project mentor (11)	
Summer undergraduate research (10)	
New Faculty Mentor(4)	
Trained Peer Evaluator(12)	
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Associate Professor of Computer Science	2003-2007
Honors project mentor (4)	
Summer Undergrad Research(3)	
Designed and Implemented Intro to CS Seminar for High School Students	
Assistant Professor of Commuter Science	2002 2002
Assistant Professor of Computer Science	2002-2003
Honors project mentor	
Summer research	
Adjunct Professor of Mathematics and Computer Science	1987-1996
University of California, San Diego	
	4007 2000
Head Teaching Assistant	1997-2000
Responsible for training other teaching assistants	
Teaching Assistant	1996-1997
Computer Architecture, Data Structures	1990-1997
Computer Architecture, Data Structures	
Palomar College, San Marcos, CA	1985-1987
Adjunct Professor	1303-1307
Related Experience	
TRW, Redondo Beach, CA	1983-1984
	1905-1904
Member of the Technical Staff	
Database design	
CADAMA Inc. Durch work CA	1001 1003
CADAM Inc., Burbank, CA	1981-1983
Maintenance Programmer Take calls from system are and fix bygs in Computer Aided Design Brogram	
Take calls from customers and fix bugs in Computer Aided Design Program	
Jet Propulsion Lab, Pasadena, CA	1980-1981
Technical Writer	
Created manuals for real time telemetry technicians	
or cated mandals for real time telemetry technicians	
Professional Activity	
TOTESSIONAL MUNICY	

•	External Program Reviewer, Westmont College	2021
•	Reviewer for ACMS online journal	2019
•	Scholarships Reviewer – Tapia Diversity in Computing Conference	2019-2020
•	Academic Panels Reviewer – Tapia Diversity in Computing Conference	2019-2020
•	External Program Reviewer – Computer Science Department at University of San Diego	2019
•	Program Committee: Celebration of Women in Computing 2018	2018
•	Reviewer for Communications of the ACM	2018
•	External Program Reviewer – Computer Science Department at California State University San Marcos	2018
	Board Member, Association of Christians in the Mathematical Sciences	2017-2021
	Program Committee: SIGCSE Technical Symposium	2017-2020
	Program Committee: Celebration of Women in Computing 2016	2016
	Reviewer for SIGCSE Technical Symposium on Computer Science	2004-2016
	Education	
•	General Co-chair: SoCal Celebration of Women in Computing conference 2014	2014
•	External Program Reviewer – Math and Computer Science Department La Sierra University	2013
•	Program Committee: Celebration of Women in Computing conference 2012	2012
•	Reviewer for ITiCSE Conference on Innovation and Technology in CS Education	2006-2010
•	Program Committee CCSC Southwestern Region Conference	2007 2000
•	Reviewer for Communications of the ACM	2007-2008
•	Co-chaired and hosted PLNU Computer Science Undergrad Research	2007 2005-2006
	Conferences	2005-2006
•	Reviewer for Computer Architecture Education Workshop	2003

Publications

Website, "Integrated Ethics Labs", Lori Carter, Catherine Crockett, Randall Pruim. https://integratedethicslabs.org/, July 2021.

Book Review, "RIGHT/WRONG: How Technology Transforms Our Ethics", Lori Carter, *Perspectives on Science and Christian Faith,* Vol 73, Number 2, June 2021

"An Ethics Curriculum for CS with Flexibility and Continuity." Lori Carter and Catherine Crockett, *Proceedings of FIE 2019, Frontiers in Education*, October 2019.

"A Low Stakes Introduction to Computer Programming." Lori Carter, *Proceedings of FIE 2018, Frontiers in Education*, October 2018.

"Preparing K-12 Teachers to Inspire Future Coders: It Doesn't Have to be Complex." Lori Carter and Catherine Crockett, *Proceedings of FIE 2018, Frontiers in Education*, October 2018.

"Hybrid courses across the curriculum: what works and what doesn't." R. Botts, L. Carter and C. Crockett. ACMS 21st Biennial Conference Proceedings. (2017).

"Blended Learning in a Quantitative Literacy Course." R. Botts, L. Carter and C. Crockett. *Primus.* (2017).

"Computer Programming ... Simply: A Brief Introduction to Computer Programming in Plain English." Lori Carter, Amazon Digital Services LLC (September, 2016)

"Undergraduate programs in computational science." Lori Carter, Tim Little, Claire Mathews. *Journal of Computing Sciences in Colleges* 30, 4 (April 2015), 83-91.

"Interdisciplinary Computing Classes: Worth the Effort." Lori Carter, *Proceedings of the 45th SIGCSE Technical Symposium on Computer Science Education, March 2014.*

"Computational Science Programs: The Background Work" Lori Carter, Ryan Botts and Catherine Crockett, *Proceedings of FIE 2012, Frontiers in Education, October 2012.*

"Ideas for Adding Soft Skills Education to Service Learning and Capstone Courses for Computer Science Students." Lori Carter, *Proceedings of the 42nd SIGCSE Technical Symposium on Computer Science Education, March 2011.*

"Lessons Learned: A Journey in Computational Science." Ryan T. Botts and Lori Carter. Association of Christians in the Mathematical Sciences Online Journal, June 2011

"Bridging the Technology Gap: An Analysis of Industry Needs and Student Skills" Lori Carter and Catherine Marcarelli, *Proceedings of FIE 2009, Frontiers in Education, October 2009.*

"The Business of Service Learning", Lori Carter, *Proceedings of FIE 2009, Frontiers in Education, October 2009.*

"Problems with Computer Gaming May Contribute to Retention Troubles for CS Students", Lori Carter and Anna Hail, *Journal of Computing Sciences in Colleges, March 2009.*

"Introduction to Computers: An Interdisciplinary Approach." Lori Carter and Scott Osborne, *Proceedings of FIE 2007, Frontiers in Education, October 2007*

"Success in CS: Is Culture a Factor?" Lori Carter, Luke Jernejcic, Nicodemus Lim, Proceedings of FIE 2007, Frontiers in Education, October 2007

"Why Students with an Aptitude for Computer Science Don't Choose to Major in Computer Science." Lori Carter, *Proceedings of the 37th SIGCSE Technical Symposium on Computer Science Education, March 2006.*

"Bridging the Gap Between the Undergraduate and Graduate Experiences in Computer Systems Studies." Lori Carter and Scott Rae, 10th Workshop on Computer Architecture Education, June 2003.

"Using Predicate Path Information in Hardware to Determine True Dependences." Lori Carter and Brad Calder, *Proceedings of the International Conference on Supercomputing, June 2002.*

"An EPIC Processor with Pending Functional Units." Lori Carter, Weihaw Chuang and Brad Calder, *Proceedings of the Fourth International Symposium on High Performance Computing, May 2002.*

"Path Analysis and Renaming for Predicated Instruction Scheduling." Lori Carter, Beth Simon, Brad Calder, and Jeanne Ferrante, *International Journal for Parallel Programming. 2000.* December, 2000. pages 563-588.

"Predicated Static Single Assignment." Lori Carter, Beth Simon, Brad Calder, Larry Carter, Jeanne Ferrante, *International Conference on Parallel Architectures and Compilation Techniques (PACT)*. October 1999.

Books

Computer Programming ... Simply: A Brief Introduction to Computer Programming in Plain English. Lori Carter. September 2016. Amazon Digital Services LLC

Other Presentations

"Ethics in Computer and Data Science Workshop.", Lori Carter and Catherine Crockett, Calvin University, June 2021.

"Women in STEM Panel Discussion." Point Loma Nazarene University, November 2019

"Preparing Tomorrow's Ethical Decision-Makers in Computer and Data Sciences Today." Lori Carter, Whitney Featherston, Morgan Wheeler. 2019 ACM Richard Tapia Celebration of Diversity in Computing Conference, San Diego, CA, September 2019

"Preparing Computer Science students to be ethical leaders in the challenging world of technology." Lori Carter. Faculty Scholarship Day. PLNU, August 2019

"Computer Science and Engineering at PLNU." Presentation at PLNU to the EIS Girls in Technology program. August 2019

"Panel Discussion on Evangelical Position on AI." Association of Christians in the Mathematical Sciences, Marion, IN June 2019

"Panel Discussion on Student Mentoring." Association of Christians in the Mathematical Sciences, Marion, IN June 2019

Ethics in computer and Data Sciences." Lori Carter and Catherine Crockett. Association of Christians in the Mathematical Sciences, Marion, IN June 2019

"Computing and Values." Lori Carter, 2018 ACM Richard Tapia Celebration of Diversity in Computing Conference, Orlando, FL, September 2018

"Computing and Values." Lori Carter and Derek Schuurman. SIGCSE Technical Symposium on Computer Science Education, March 2018.

"Preparing K-12 Teachers to Inspire Future Coders." Lori Carter and Catherine Crockett. Faculty Scholarship Day. PLNU, August 2017

"Including a Writing Project in a Service Learning Course for Mathematics and Computer Science Students is a Win for Both Students and Professor." Lori Carter. Association of Christians in the Mathematical Sciences, Charleston, S.C. June 2017

Commencement Address, Point Loma Nazarene University, May 2017

"Perspectives on Grant Writing for NSF." Lori Carter. Nazarene IBOE Professional Grant Writers Meeting, Bourbonnais, IL, July 2016

"Computing Across the Disciplines." Lori Carter. Faculty Scholarship Day, PLNU, August 2015

"Biology Inspired Computing Exercises." Lori Carter. Association of Christians in the Mathematical Sciences, June 2015

"Hybrid Classes in Mathematics and Computer Science –(Panel)" Ryan Botts, Lori Carter, Catherine Crockett, Greg Crow, and Maria Zack: Association of Christians in the Mathematical Sciences Nineteenth Biennial Conference, at Redeemer University College (Ancaster, ON, Canada) 27-May to 30-May 2015.

Carter, L., Little, T. & Mathews, C. (2015). "Moving Ahead with Computational Science Programs." Poster presentation at the 46th SIGCSE Technical Symposium on Computer Science Education (SIGCSE 15), Kansas City, Missouri, USA

"Successes and Challenges in Interdisciplinary Education." Lori Carter. Association of Christians in the Mathematical Sciences, June 2013

"The Role of Computing in Biology and Medicine: A Sabbatical Project:"Lori Carter. Faculty Scholarship Day, PLNU, August 2012

"The Use of Computing in Biology and Medicine." Lori Carter. Celebration of Women in Computing Conference, April 2012.

"Lessons Learned: A Journey in Computational Science." Ryan T. Botts and Lori Carter. Association of Christians in the Mathematical Sciences, June 2011
Keynote address: "Computer Gaming: The Good and the Bad"
Lori Carter and Anna Hail Association for Christians in the Mathematical Sciences (ACMS), May 2009.

"Predication in DSP Architectures: Maximized Benefit, Minimized Cost", Lori Carter, Presentation for Association for Christians in the Mathematical Sciences (ACMS), May 2003

Courses Taught

- CSC 111: Computer Programming for the Absolute Beginner
- CSC 122: Introduction to Computers
- CSC 132: Introduction to Computer Science
- CSC 134: Introduction to Computer Science C++
- CSC 142: Introduction to Computer Programming Java
- CSC 154: Fundamentals of Computer Science
- CSC 191: Databases and Data Mining
- CSC 252/254: Data Structures
- CSC 302: Python and Unix Scripting for Computational Science
- CSC 314: Operating Systems
- CSC 322: Data Management for Computational Science
- CSC 354: Algorithm Analysis and Theory of Computation
- CSC 374 Computer Networking
- CSC 394 Programming Languages
- CSC 412: Special Topics Computer simulations
- CSC 412: Special Topics Multi-core/Multithreading

- CSC 412: Special Topics Programming for Mobile Devices
- CSC 412: Special Topics Android Programming
- CSC 454: Computer Architecture and Assembly Language
- CSC 481: Senior Seminar
- CSC 496: Service Learning I
- CSC 497: Service Learning 2
- CIT 424: Visual Programming in C#
- ISS 232: Introduction to Information Systems
- ISS 242: Visual Programming for Business Applications
- MTH 303: Problem Solving
- MTH 099: Elementary Algebra

Memberships and Affiliations

- Association for Computing Machinery
- Special Interest Group for Computer Science Education
- American Society for Engineering Education
- Association for Christians in the Mathematical Sciences