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Research Interests	Artificial intelligence, heuristic search, computer science education, universal design for learning, active learning, guided inquiry.	
Education	University of New Hampshire PhD in Computer Science, ABD	
	University of New Hampshire M.A. in Teaching, 2013 Secondary Math	
	Ball State UniversityM.S. in Computer Science, 2007Thesis: Potential Problem Areas of Design Metrics for Object Oriented SystemsAdvisor: Paul Gestwicki	
	Ball State UniversityB.S. in Computer Science, 2005	
Grants, Honors, & Awards	USNH Open Educational Resources Ambassador, 2016-2017 Program to support faculty in integrating OER and open pedagogy into their courses.	
	Robert Noyce Teacher Scholarship, 2011 NSF-funded program for STEM students/professionals to train as teachers.	
	Departmental Scholarship (UNH Education Department), 2011	
Teaching Experience	University of New HampshireLecturerSpring 2016-presentIntroduction to Computer Science I & II, Living in a Networked World,Computer Architecture.	
	Paulo Freire Social Justice Charter School <i>Math Teacher</i> August 2013-Spring 2016 High school mathematics and computing.	
	University of New Hampshire <i>Instructor</i> Fall 2011, Summer 2012, Summer 2013 Introduction to Computer Science II, Programming Language Concepts.	
	University of New Hampshire <i>Teaching Assistant</i> January 2010-December 2010 Introduction to Artificial Intelligence, Introduction to Computer Science II.	
	Ball State UniversityTeaching AssistantAugust 2006–May 2007Introduction to Computer Science.	

Professional Experience	University of New HampshireResearch AssistantAugust 2007–May 2010Research in bioinformatics and heuristic search.
	Ball State UniversityResearch AssistantAugust 2006–December 2006Research in software design metrics.
	[Some previous publications appear under the name "Seth Lemons"]
Journal Articles	Ethan Burns, Sofia Lemons, Wheeler Ruml and Rong Zhou, "Best-First Heuristic Search for Multicore Machines" <i>Journal of Artificial Intelligence Research</i> , , 39, pp. 689–743, 2010
Refereed Conference Publications	Ethan Burns, Seth Lemons, Rong Zhou and Wheeler Ruml, "Suboptimal and Anytime Heuristic Search on Multi-Core Machines" <i>Proceedings of the Seventeeth International</i> <i>Conference on Automated Planning and Scheduling (ICAPS-09)</i>
	Ethan Burns, Seth Lemons, Rong Zhou, and Wheeler Ruml, "Best-First Heuristic Search for Multi-Core Machines" <i>Proceedings of the Twenty-first International Joint</i> <i>Conference on Artificial Intelligence (IJCAI-09)</i>
Refereed Workshop Publications	Ethan Burns, Sofia Lemons, Rong Zhou and Wheeler Ruml, "Parallel Best-First Search: The Role of Abstraction" <i>Proceedings of the AAAI-10 Workshop on Abstraction,</i> <i>Reformulation, and Approximation (WARA-10)</i>
	Seth Lemons, J. Benton, Wheeler Ruml, Minh Do, and Sungwook Yoon, "Continual On-line Planning as Decision-Theoretic Incremental Heuristic Search" <i>Proceedings of the AAAI 2010 Spring Symposium on Embedded Reasoning</i>
	Ethan Burns, Seth Lemons, Rong Zhou, and Wheeler Ruml, "Parallel Best-First Search: Optimal and Suboptimal Solutions" <i>Proceedings of the Second International</i> <i>Symposium on Combinatorial Search (SoCS-09)</i>
Books	<i>Living in a Networked World</i> OER textbook compiled/created for general education (Discovery) course of the same name at the University of New Hampshire.
Speaking Engagements	Spark Teacher Education Seminar, 2019 Panel on labor issues in K-12 education
	New England Science Boot Camp for Librarians, 2019 "Social Justice in Computer Science: How Algorithms can Amplify Bias or Help Reduce It"

Girls Who Code, 2014-2016 Lead/advised a local chapter of Girls Who Code at the Paulo Freire Social Justice Charter School.
Computer Science Education Reading Group, 2016-present Organized and lead weekly meetings of a group of faculty and students in reading and discussing research and writing about educational methods in Computer Science.
Seacoast Interfaith Sanctuary Committee, 2017-present Participated on behalf of Dover (NH) Friends Meeting in interfaith committee supporting immigrants by providing physical sanctuary within places of worship.
Waysmeet Center Board of Directors, 2019-present Served on board of interfaith campus ministry to the University of New Hampshire & surrounding community.
Farmington High School Robotics Team, 2019-present Coding mentor for students and staff involved in FIRST Robotics competitions.

Citizenship U.S.A.