TODS

Christopher R.	Aberger		
		caberger@stanford.edu (608) 738-8876	
EXPERIENCE	<b>Stanford University</b> , Palo Alto, California <i>Researcher</i> under Christopher Ré and Kunle Olukotun	November 2018-Present	
	SambaNova Systems, Palo Alto, California	November 2017-Present	
	<b>Stanford University</b> , Palo Alto, California Fall 2013-Summer 2018 Research Assistant under Christopher Ré and Kunle Olukotun		
	Google, Mountain View, CA Software Engineering Intern	Spring 2017	
	Materialized view query optimization in the F1 (massively distributed) database.		
	Apple Inc., Austin, TX  Design Performance Intern  Machine learning applied to performance analysis for A7 of	Summer 2013	
	IBM, Austin, TX Hardware Engineering Co-op	Summer 2012	
	Functional verification and lab bring-up procedures for Po	wer8 chip.	
EDUCATION	Stanford University, Stanford, California		
	Doctor of Philosophy in Computer Science	$Summer\ 2018$	
	Master of Science in Computer Science	$Summer\ 2016$	
	Master of Science in Electrical Engineering	Spring 2015	
	University of Wisconsin, Madison, Wisconsin Bachelor of Science in Computer Science Bachelor of Science in Computer Engineering Minor in Mathematics Graduated with Highest Distinction	May 2013	
	<b>Zhejiang University</b> , Hangzhou, China Technical communication and Mandarin course	Summer 2009	
PUBLICATIONS	HALP: High-Accuracy Low-Precision Training  Christopher R. Aberger, Christopher De Sa, Megan Leszczynski, Alana Marzoev, Kunle Olukotun, Christopher Ré, and Jian Zhang PrePrint		
	LevelHeaded: A Unified Engine for Business Intelligence and Linear Algebra Querying 2018 Christopher R. Aberger, Andrew Lamb, Kunle Olukotun, and Christopher Ré ICDE		
	EmptyHeaded: A Relational Engine for Graph Pro Christopher R. Aberger, Andrew Lamb, Susan Tu, Andres Kunle Olukotun, and Christopher Ré		

Mind the Gap: Briding Multi-Domain Workloads with EmptyHeaded Christopher R. Aberger, Andrew Lamb, Kunle Olukotun, and Christopher Ré VLDB Demo	2017
EmptyHeaded: A Relational Engine for Graph Processing Christopher R. Aberger, Susan Tu, Kunle Olukotun, and Christopher Ré SIGMOD, Best of	2016
Old Techniques for New Join Algorithms: A Case Study in RDF Processing Christopher R. Aberger, Susan Tu, Kunle Olukotun, and Christopher Ré ICDE Workshop	2016
Have Abstraction and Eat Performance, Too: Optimized Heterogeneous Computing with Parallel Patterns Kevin J. Brown, HyoukJoong Lee, Tiark Rompf, Arvind K. Sujeeth, Christopher De Sa, Christopher Aberger, and Kunle Olukotun CGO	2016
C++, Python, Scala, Java, C	
University of Wisconsin-Madison Advanced Computer Architecture I (Superscalar design) (ECE 752) Advanced Computer Architecture II (Multi-core design) (ECE 757) Digital Engineering Laboratory (ECE 554) Digital System Design and Synthesis (ECE 555) Digital Signal Processing (ECE 431) Operating Systems (CS 537) Computer Graphics (CS 559) Algorithms (CS 577)	
Stanford University Databases (CS 145) Automata and Complexity Theory (CS 154) Logic (CS 157) Programming Languages (CS 242) Topics in Database Management Systems (CS 345) Program Analysis and Optimizations (CS 243) Advanced Topics in Operating Systems (CS 240) Machine Learning (CS 229)	
<ul> <li>2008, La Crosse Community Foundation Engineering Scholarship</li> <li>2008-2012, Wisconsin Academic Excellence Scholarship</li> <li>2009, 2010, Claude and Dora Richardson Engineering Scholarship</li> <li>2010, Polygon Excellence in Engineering Scholarship</li> <li>2010-2011, International Engineering Consortium Everitt Award Winner</li> <li>2011-2012, Tau Beta Pi National Scholar</li> <li>2012, Fred W. and Josephine H. Colbeck Scholarship Award</li> </ul>	

LANGUAGES

SELECTED COURSES

AWARDS