(608) 738-8876 **EXPERIENCE** Stanford University, Palo Alto, California November 2018-Present Researcher under Christopher Ré and Kunle Olukotun Stealth Mode Startup, Palo Alto, California November 2017-Present Stanford University, Palo Alto, California Fall 2013-Summer 2018 Research Assistant under Christopher Ré and Kunle Olukotun Google, Mountain View, CA Spring 2017 Software Engineering Intern Materialized view query optimization in the F1 (massively distributed) database. Apple Inc., Austin, TX Summer 2013 Design Performance Intern Machine learning applied to performance analysis for A7 chip design. IBM, Austin, TX Summer 2012 Hardware Engineering Co-op Functional verification and lab bring-up procedures for Power8 chip. **EDUCATION** Stanford University, Stanford, California Summer 2018 Doctor of Philosophy in Computer Science Master of Science in Computer Science Summer 2016 Master of Science in Electrical Engineering Spring 2015 May 2013 University of Wisconsin, Madison, Wisconsin Bachelor of Science in Computer Science Bachelor of Science in Computer Engineering Minor in Mathematics Graduated with Highest Distinction PUBLICATIONS HALP: High-Accuracy Low-Precision Training 2018 Christopher R. Aberger, Christopher De Sa, Megan Leszczynski, Alana Marzoev, Kunle Olukotun, Christopher Ré, and Jian Zhang preprint A Relational Architecture for Graph, Linear Algebra, and **Business Intelligence Querying** 2018 Christopher R. Aberger PhD Thesis LevelHeaded: A Unified Engine for Business Intelligence and Linear Algebra Querying 2018 Christopher R. Aberger, Andrew Lamb, Kunle Olukotun, and Christopher Ré ICDE

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EmptyHeaded: A Relational Engine for Graph Processing Christopher R. Aberger, Andrew Lamb, Susan Tu, Andres Nötzli, Kunle Olukotun, and Christopher Ré TODS	2017
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) 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)	
2008, La Crosse Community Foundation Engineering Scholarship 2008-2012, Wisconsin Academic Excellence Scholarship 2009, 2010, Claude and Dora Richardson Engineering Scholarship 2010, Polygon Excellence in Engineering Scholarship 2010-2011, International Engineering Consortium Everitt Award Winner 2011-2012, Tau Beta Pi National Scholar 2012, Fred W. and Josephine H. Colbeck Scholarship Award	

LANGUAGES

SELECTED COURSES

AWARDS