ADAM DZIEDZIC

PERSONAL DETAILS

PHONE:	+1 872 222 8183
EMAIL:	ady@uchicago.edu
DATE OF BIRTH:	2-nd of August 1988
NATIONALITY:	Polish
LinkedIn:	https://www.linkedin.com/in/adziedzic
PERSONAL WEB PAGE:	http://people.cs.uchicago.edu/~ady

EDUCATION

CURRENT 2018 – JULY 2015
PhD Program in COMPUTER SCIENCE
The University of Chicago, USA
RESEARCH AREAS: Data Analysis and Management, Databases, Deep Learning
ADVISOR: Professor Aaron J. ELMORE
I work on declarative interfaces for deep learning and compression of inputs and filters in the frequency domain for the FFT based convolution. I did research on data loading and migration framework for the BigDAWG project.
Courses: Deep Learning, Databases, Algorithms & Data Structures, Machine Learning, Operating Systems, Distributed Systems, Discrete Mathematics, Computer Architecture, Networks, Mathematical Toolkit (Linear Algebra & Probability), Topics in Databases, Convex Optimization
GPA: 3.91/4
TEACHING ASSISTANT: Introduction to Databases, Databases for Public Policy

JUNE 2015 – OCTOBER 2014
Research Internship
École Polytechnique Fédérale de Lausanne, Switzerland
GROUP: Data Intensive Applications and Systems
ADVISOR: Professor Anastasia AILAMAKI
I built an automated testing infrastructure to benchmark the loading performance of several commercial and open-source databases, performed in depth analysis to identify bottlenecks of the process and investigated novel techniques which could be used to accelerate DBMS data loading.

SEPTEMBER 2014 – OCTOBER 2013
Graduate Research Assistant
Warsaw University of Technology, Poland
MAJOR: Computer Information System Engineering
MAIN TOPIC: Big Data
ADVISOR: Professor Jan MULAWKA
TEACHING ASSISTANT: Bioinformatics Algorithms

MARCH 2013 – OCTOBER 2011
Master of Science in COMPUTER SCIENCE
Warsaw University of Technology, Poland
MAJOR: Computer Information System Engineering
THESIS: "An analysis and comparison of non-relational (NoSQL) databases with an example of application using CouchDB."
TECHNOLOGIES: CouchDB, Riak, HBase, Python, Django, jQuery, sphinx
ADVISOR: Professor Piotr GAWRYSIAK
GPA: 4.93/5 THE FINAL GRADE: Excellent

SEPTEMBER 2011
Bachelor of Science in COMPUTER SCIENCE

February 2011	**Warsaw University of Technology**, Poland
	Major: Computer Information System Engineering
	Thesis: "Document management system – application in three-tiered architecture."
	Advisor: Ph.D. Eng Jarosław Dawidczyk
	Technologies: PostgreSQL, Java, JEE, Hibernate, Dojo, PowerDesigner
	ObjectLedge, TestNG, JUnit, OO Design, Apache Tomcat
	Gpa: 4.80/5 The final grade: Excellent
January 2011	**Technical University of Denmark**, Copenhagen, Denmark
August 2010	Erasmus Programme
	Courses: Logical Systems and Logic Programming, Advanced Databases, Applied Statistics and Statistical Software, Web 2.0 and Mobile Interaction, Java Programming
	Gpa: 11.71/12
June 2010	**Warsaw University of Technology**, Poland
October 2007	Major: Computer Information System Engineering
June 2007	**Stefan Żeromski's High School in Kielce**, Poland
September 2004	Extended curriculum in mathematics and physics

Publications and posters

CIDR 2019	Sanjay Krishnan, Adam Dziedzic, Aaron J. Elmore *DeepLens: Towards a Visual Data Management System* (paper)
SIGMOD 2018	Adam Dziedzic, Jingjing Wang, Sudipto Das, Bolin Ding, Vivek R. Narasayya, Manoj Syamala *Columnstore and B+ tree – Are Hybrid Physical Designs Important?* (paper)
UChicago 2017	Adam Dziedzic *Data Loading, Transformation and Migration for Database Management Systems* (Master's thesis)
CIDR 2017	Tim Mattson, Vijay Gadepally, Zuohao She, Adam Dziedzic and Jeff Parkhurst *Demonstrating the BigDAWG Polystore System for Ocean Metagenomic Analysis* (paper)
ADMS 2016	Adam Dziedzic, Manos Karpathiotakis, Ioannis Alagiannis, Raja Appuswamy and Anastasia Ailamaki *DBMS Data Loading: An Analysis on Modern Hardware* (paper)
HPEC 2016	Adam Dziedzic, Aaron J. Elmore and Michael Stonebraker *Data Transformation and Migration in Polystores* (paper).
HPEC 2016	John Meehan, Stan Zdonik, Shaobo Tian, Yulong Tian, Nesime Tatbul, Adam Dziedzic and Aaron J. Elmore *Integrating Real-Time and Batch Processing in a Polystore* (paper)
GCASR 2016	Adam Dziedzic and Aaron J. Elmore *Portage: A Data Migrator for a Polystore in the Database Deluge Era* (poster)
NEDBDAY 2016	Adam Dziedzic and Aaron J. Elmore *Portage: A Data Migrator for a Polystore in the Database Deluge Era* (poster)

IEEE VIS DSIA 2015	Adam Dziedzic, Jennie Duggan, Aaron J. Elmore, Vijay Gadepally and Michael Stonebraker. *BigDAWG: a Polystore for Diverse Interactive Applications* (paper)
SPIE 2014	Adam Dziedzic and Jan Mulawka. *Analysis and Comparison of NoSQL databases with an introduction to consistent references in big data storage systems* (paper)

AWARDS

2018	SIGMOD Travel Award.
2011-2012	The scholarship of the Rector of the Warsaw University of Technology for my achievements during Master's program.
2007-2011	The academic scholarship for the best faculty students (granted on a yearly basis and based on GPA).

WORK EXPERIENCE

SEPTEMBER 2017 JUNE 2017	**GOOGLE (MADISON, THE US)** *PhD Software Engineering Intern at Data Infrastructure and Analysis team* Mentor: Goetz Graefe Eliminated a performance cliff in the F1 database for the aggregation queries. Researched and designed different methods of incremental spilling and skew-awareness for graceful aggregation. Contributed to the low-level data structures and made changes that were crucial to achieve robust performance in F1. Coded in C++, wrote tests and performed code reviews. Participated and presented a poster during the internal Google PIRC 2017 conference for PhD interns.
JUNE 2017 MARCH 2017	**MICROSOFT RESEARCH (REDMOND, THE US)** *Intern at Data Management, Exploration and Mining (DMX) group* Mentors: Vivek Narasayya and Sudipto Das. Worked on analysis and acceleration of query execution for mixed (OLTP and OLAP) workload. Carried out research on hybrid physical structures for diverse workloads.
AUGUST 2013 JUNE 2013	**BARCLAYS INVESTMENT BANK (LONDON, THE UK)** *Intern Analyst at Equities Derivatives Technology* Technologies: Java, Spring, Maven, Velocity, Jetty, JIRA, JUnit, JMock The goal of the project was to validate current underlyings and suggest new underlyings for a given product, for example, a reverse convertible instrument. I created a system that went into production and brought value to business.
DECEMBER 2012 APRIL 2012	**CERN (GENEVA, SWITZERLAND)** *Technical Student at IT Department and CERN Computer Center* I worked on NoSQL and NewSQL databases.