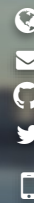


Dominik Moritz



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My goal is to use a combination of **large-scale systems for data analysis and interactive visualizations** to support novel insights and fast exploration of multi-dimensional data. I hope to build visualization systems that use statistical analysis, both for driving visualization recommendation and guiding the user's exploration as well as for supporting richer exploratory analysis.

Education

- since 2013 **University of Washington – Ph.D. in Computer Science & Engineering** Seattle
Advised by **Bill Howe** and **Jeffrey Heer**.
Member of the Database Group and the Interactive Data Lab. Research focus on distributed database systems and interactive data visualization.
M.Sc. in Computer Science & Engineering expected in June 2015
- 2010-2013 **Hasso Plattner Institute – B.Sc. in IT-Systems Engineering** Potsdam
Bachelor's thesis: Algorithms for the Visualization of Software System Evolution.
GPA: 4.0 (1.0 in German system), highest distinction, rank 1/74
Advanced classes on database implementation, computational geometry, architecture, and logic.

Peer-reviewed Publications

Perfopicon: Visual Query Analysis for Distributed Databases

Dominik Moritz, Daniel Halperin, Bill Howe, Jeffrey Heer. *Computer Graphics Forum (EuroVis)*, Cagliari, Italy, 2015

Demonstration of the Myria big data management service

Daniel Halperin, Victor Teixeira de Almeida, Lee Lee Choo, Shumo Chu, Paraschos Koutris, **Dominik Moritz**, Jennifer Ortiz, Vaspol Ruamviboonsuk, Jingjing Wang, Andrew Whitaker. *Proceedings of the 2014 ACM SIGMOD international conference on Management of data*, 2014

Visualization of Varying Hierarchies by Stable Layout of Voronoi Treemaps

Sebastian Hahn, Jonas Trümper, **Dominik Moritz**, Jürgen Döllner. *Proceedings of the 5th International Conference on Information Visualization Theory and Applications (IVAPP)*, 2014

Notable Awards

- 2013-2014 **Fulbright Fellowship** Bureau of Educational and Cultural Affairs, USA
Highly competitive, merit-based grant for international educational exchange for students, scholars, teachers and scientists.
- 2010-2015 **Studienstiftung des Deutschen Volkes** Studienstiftung, Bonn
The German National Academic Foundation grants prestigious scholarships to students with outstanding academic achievements. Merit-based grant for B.Sc. and M.Sc.
- 2010-2015 **Hasso Plattner scholarship** Hasso Plattner Institute, Potsdam
One-year scholarship awarded to the best graduates of each year.

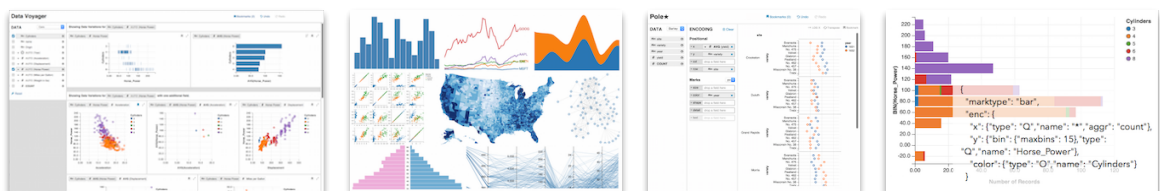
Professional and Research Experience

- Summer 2015 **Google Research – Research Intern** Mountain View
Intern in the Structured Data Team with Sudip Roy, Alon Halevy, Chris Olston, Alkis Polyzotis and Natasha Noy.
- Summer 2014 **Google – Software Engineering Intern** New York City
Developed new algorithms to support more complex queries in large scale production monitoring system. [Algorithm design, large scale software development, profiling, C++]

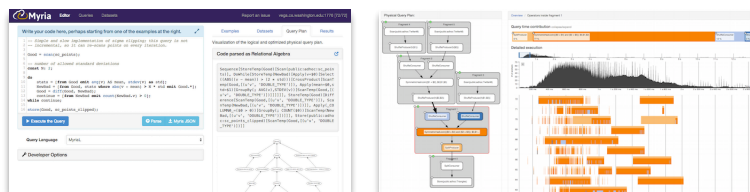
2012-2013	Open Knowledge Foundation – Intern and Developer Two-month summer internship and subsequent one-year involvement in development and training for CKAN, the most deployed open data portal in the world. [Distributed teams, agile development, large legacy systems, Python, JavaScript]	London and Berlin
2012-2013	Hasso Plattner Institute – Bachelor's Project In a team of four students developed a tool to visualize software evolution with 3D Voronoi Treemaps. I focused on the theory and implementation of layout algorithms. [Legacy code, visualization, complex algorithms, C++]	Potsdam
2012-2013	University of Potsdam – Research Assistant Worked on theory and implementation of an extension of the Clasp Answer Set Programming solver for pseudo-boolean constraints. In Knowledge Representation and Reasoning Group with Torsten Schaub. [Research, benchmarking, logic programs, C++]	Potsdam
2012	Google Summer of Code Extend Open Data platform for information about people. [Open source development, JavaScript]	Internet

Major Projects More on GitHub @domoritz

since 2014	Vega, Vegalite, Polestar, Voyager – vega.github.io Vega and Vegalite are declarative visualization grammars. Polestar and Voyager are tools for visual data exploration.	UW Interactive Data Lab
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since 2013	Myria – myria.cs.washington.edu Myria is a distributed, shared-nothing Big Data management system. I developed new operators, the expression language, Profiling, and query language features.	UW Database group and the UW eScience Institute
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2012-2014	CKAN – ckan.org CKAN (Comprehensive Knowledge Archive Network) is the most popular open data publishing platform used by data.gov and many other governments, organizations and universities. I developed the CKAN data store, preview API, and importer services.	Open Knowledge Foundation
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Teaching Experience

Spring 2015	Teaching Assistant, CSE 512 Data Visualization Prepared discussions, graded assignments, held office hours, visualization tools and D3 tutorial.	University of Washington
Winter 2014	SQL Workshop One day workshop on SQL for scientists at the University of Washington.	UW eScience Institute
Spring 2012	Teaching Assistant, VHDL Prepared course material for class on VHSIC Hardware Description Language.	Hasso Plattner Institute

Languages

German native
English fluent

Programming

Python, C++, Java, JavaScript,
Go, Smalltalk, CSS3 & HTML5

Systems, Frameworks & Techniques

Git, Linux, Latex, PostgreSQL, D3, Vega, Angular, Protocol
Buffers, Qt, TDD, Testing, Prototyping