Lars Grammel

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Summary

I create interactive user interfaces that invite people to play with and to explore data. My goal is to help everyday users in data visualization and analysis.

Education

09/2007 – 12/2012	**PhD, Computer Science**, University of Victoria, BC, Canada I have investigated how user interfaces can support information visualization novices in visualization construction and coordination.
10/2001 – 02/2007	**Master of Computer Science / Diplom-Informatiker**, RWTH Aachen University, Germany My Master's project was developing a tool for the flexible calculation of change request metrics.

Industry Experience

07/2012 – present	**Arini Software Inc,** Founder
09/1999 – 04/2007	**Lars Grammel Software Development**, Entrepreneur I developed and sold the following two applications:

Timecontrol: A Java-based web application for project time tracking and cost calculation.

Liga Assistant: A Java-based web application for displaying the standings and schedules of sport leagues including an additional sports betting module. The application included a Java Swing-based rich client for data administration.

My activities in both projects included requirements engineering, software development, software maintenance, writing user documentation, teaching users, web site design, sales, marketing and customer support.

Open Source Projects (selective)

04/2010 – 07/2011	**Choosel project lead.** Choosel (*code.google.com/p/choosel/*) is a web-based environment that aims at facilitating flexible visual data exploration for information visualization novices. It supports the iterative construction of multiple coordinated views during the visual data analysis process.
07/2006 – 07/2007	**BugzillaMetrics initial developer.** BugzillaMetrics *(www.BugzillaMetrics.org)* is a tool for the calculation of change request metrics. I created its first version as part of my Master's thesis 2006/2007. Its main characteristics are the specification of metrics by the users, separation between metric specification and data retrieval, an event driven algorithm, transparent execution optimization and an abstraction of its data sources. BugzillaMetrics has been downloaded over 3,000 times.
01/2005 – 12/2009	**Nomad PIM project lead.** Nomad PIM *(NomadPIM.sourceforge.net)* is a free extensible personal information manager. It provides a platform for integrating personal data, and allows customization to personal needs. Nomad PIM contains modules for personal notes, journal, address book, individual bookkeeping, task management, time tracking and evaluating basic fitness measurements. It has been downloaded over 50,000 times and has been translated into seven languages.

Academic Research Job Experience

12/2011 – 07/2012 **Software developer and researcher**, National Center for Biomedical Ontology (NCBO).
01/2009 – 07/2011 Development of Bio-Mixer, a web application for exploring biomedical ontologies. Bio-Mixer is written in Java/GWT and allows users to visualize and access multiple ontologies hosted at the NCBO. It supports multiple coordinated views, sharing of workspaces, and embedding views into webpages.

01/2008 – 12/2011 **Center of Advanced Studies (CAS) student**, IBM Toronto Lab. Conducted research on mashups, information visualization and end user development.

05/2007 – 09/2007 **Software developer,** RWTH Aachen University, Germany, Research Group Software Construction. Re-engineered and extended the release engineering scripts of ViPER, an Eclipse-based software development environment for embedded systems.

07/2005 – 12/2005 **Software developer**, University of Bonn, Germany, department of computer science. Responsible for restructuring, testing, documenting and further developing Cultivate, a code analysis and visualization research prototype written in Java and Prolog.

Teaching Experience

04/2004 – 12/2004 **Course Teacher**, VEDA GmbH. Taught software development with Java to 9 industry developers as part of their company-internal training. The course covered Java, object-oriented software development, design pattern, software tools and XML.

05/2003 – 02/2004 **Teaching Assistant**, RWTH Aachen University, Germany, MaTA apprenticeship introducing to programming and data structures/algorithms classes. Duties included marking assignments, assisting students in assignments, developing example solutions for these assignments, and teaching a three day course on object-oriented programming for employees of RWTH Aachen University.

01/2002 – 07/2002 **Course Teacher**, VEDA GmbH. Taught software development with Java to 10 industry developers as part of their company-internal training. The course covered Java, object-oriented software development, design pattern, software tools and XML.

Awards and Scholarships

01/2008 – 12/2011 **IBM CAS PhD Fellowship**

09/2007 – 08/2009 **University of Victoria Fellowship**

2007 **DASMA Diplomarbeitspreis** (Award for Master's Thesis), shared 2nd place

Professional Activities

2013 **Reviewer**, CHI (ACM SIGCHI Conference on Human Factors in Computing Systems

2011 **Reviewer**, VAST (IEEE Conference on Visual Analytics Science and Technology)

2011 **Reviewer**, ICSM (International Conference on Software Maintenance)

2010, 2011 **Reviewer**, FSE (International Symposium on the Foundations of Software Engineering)

2008, 2009, 2010 **Reviewer**, ICSE (International Conference on Software Engineering)

2009, 2011 **Reviewer**, InfoVis (IEEE Information Visualization Conference)

2009 **Workshop Co-organizer**, "User Interfaces for Visual Analysis and Monitoring in Business Intelligence", CASCON 2009

2009 **Reviewer**, VL/HCC (IEEE Symposium on Visual Languages and Human-Centric Computing)

2008 **Reviewer**, CASCON (IBM Center for Advanced Studies Conference)

2008 **Reviewer**, CHASE (ICSE Workshop on Cooperative and Human Aspects of Software Engineering)

| 2008 | **Workshop Co-organizer**, "End User Development of Enterprise Mashups", CASCON 2008 |

Supervised Students

| 01/2012 – 04/2012 | **David Rusk,** *Undergrad co-op software developer (co-supervised with Margaret-Anne Storey).* |
| 05/2011 – 08/2011 | Supervised David's work on BioMixer. He implemented a SVG-based graph viewer and JSON-based data retrieval from the NCBO REST services. |

| 05/2010 – 08/2010 | **Bradley Blashko,** *Undergrad co-op software developer (co-supervised with Margaret-Anne Storey).* Supervised Bradley's implementation of various charts for Choosel using Protovis, a JavaScript-based visualization library. |

| 05/2011 – 08/2011 | **Patrick Gorman,** *Undergrad co-op software developer (co-supervised with Christoph Treude and* |
| 05/2010 – 08/2010 | *Margaret-Anne Storey).* Supervised Patrick's implementation of the Work Item Explorer, a Choosel-based application that enables software developers to explore issue tracking data. |

Volunteer Work

| 01/2008 – 04/2008 | Helped in internet course for seniors, University of Victoria, Canada. |
| 03/2006 | **Student Volunteer** at AOSD'06 (International Conference on Aspect-Oriented Software Development), Bonn, Germany. |

Publications

[1] **Lars Grammel**, "User Interfaces Supporting Information Visualization Novices in Visualization Construction", *Dissertation, University of Victoria,* 2012.

[2] Chris Parnin, Christoph Treude, **Lars Grammel**, Margaret-Anne Storey, "Crowd Documentation: Exploring the Coverage and the Dynamics of API Discussions on Stack Overflow", *Georgia Tech Technical Report GIT-CS-12-05*, 2012

[3] Bo Fu, **Lars Grammel**, Margaret-Anne Storey, "BioMixer: A Web-based Collaborative Ontology Visualization Tool", In *Proceedings of the 3rd International Conference on Biomedical Ontology (ICBO 2012),* 2012

[4] Christoph Treude, Patrick Gorman, **Lars Grammel**, Margaret-Anne Storey, "WorkItemExplorer: Visualizing Software Development Tasks Using an Interactive Exploration Environment", In *Proceedings of the 34th International Conference on Software Engineering (ICSE 2012)*, 2012

[5] Martin Voigt, Stefan Pietschmann, **Lars Grammel**, Klaus Meissner, "Context-aware recommendation of Visualization Components", In *Proceedings of the 4th International Conference on Information, Process, and Knowledge Management (eKNOW 2012)*, 2012

[6] **Lars Grammel**, Margaret-Anne Storey, "A Survey of Mashup Development Environments", In Mark Chignell, James Cordy, Joanna Ng and Yelena Yesha (Eds.), *The Smart Internet, Springer,* 2010

[7] Margaret-Anne Storey, **Lars Grammel**, Christoph Treude, "Smart Media: Bridging Interactions and Services for the Smart Internet", In Mark Chignell, James Cordy, Joanna Ng and Yelena Yesha (Eds.), *The Smart Internet, Springer, 2010*

[8] **Lars Grammel**, Melanie Tory, Margaret-Anne Storey, "How Information Visualization Novices Construct Visualizations", In *IEEE Transactions on Visualization and Computer Graphics (Proceedings InfoVis 2010), 17(6): 943-952,* 2010

[9] **Lars Grammel**, Margaret-Anne Storey, "Towards a Foundation for Information Visualization Engineering", In *VisWeek Workshop: The Role of Theory in Information Visualization*, 2010

[10] **Lars Grammel**, Holger Schackmann, Adrian Schröter, Christoph Treude, Margaret-Anne Storey. "Attracting the Community's Many Eyes: an Exploration of User Involvement in Issue Tracking", In *Second Workshop on Human Aspects in Software Engineering (HAoSE)*, 2010

[11] **Lars Grammel**, Christoph Treude, Margaret-Anne Storey, "Mashup Environments in Software Engineering", In *Web2SE: First Workshop on Web 2.0 for Software Engineering (Web2SE)*, 2010.

[12] **Lars Grammel**, "Supporting End Users in Analyzing Multiple Data Source", In *Graduate Consortium at 2009 IEEE Symposium on Visual Languages and Human-Centric Computer (VL/HCC)*, 2009.

[13] Sean M. Falconer, R. Ian Bull**, Lars Grammel**, Margaret-Anne Storey, "Creating visualizations through ontology mapping", In *Second International Workshop on Ontology Alignment and Visualization*, 2009.

[14] **Lars Grammel**, Margaret-Anne Storey, "An End User Perspective on Mashup Makers", *Technical Report DCS-324-IR, Department of Computer Science, University of Victoria*, 2008.

[15] **Lars Grammel**, Holger Schackmann, Horst Lichter, "BugzillaMetrics - Design of an adaptable tool for evaluating user-defined metric specifications on change requests", In *DASMA Metrik Kongress (MetriKon)*, 2007.

[16] **Lars Grammel**, Holger Schackmann, Horst Lichter, "BugzillaMetrics - An adaptable tool approach for evaluating metric specifications on change requests", In *International Workshop on Principles of Software Evolution (IWPSE),* 2007.

[17] **Lars Grammel**, "Development of a tool for the evaluation of change requests", *Master Thesis, RWTH Aachen University Germany*, 2007.

Posters and Exhibits

[1] Elena Voyloshnikova, Bo Fu, **Lars Grammel**, Margaret-Anne Storey, "BioMixer: Visualizing Mappings of Biomedical Ontologies", In *Proceedings of the 3rd International Conference on Biomedical Ontology (ICBO 2012)*, 2012

[2] Bradley Blashko, Patrick Gorman, **Lars Grammel,** Margaret-Anne Storey, "Choosel", *Exhibit, Technology Showcase, CASCON 2010*

[3] Patrick Gorman, Christoph Treude, Bradley Blashko, **Lars Grammel**, Margaret-Anne Storey, "Work Item Explorer: Exploring Jazz Work Items Using an Interactive Visualization Framework", *Exhibit, Technology Showcase, CASCON 2010*

[4] **Lars Grammel**, Margaret-Anne Storey "Poster: Choosel – Web-based Visualization Construction and Coordination for Information Visualization Novices", *Poster, IEEE Information Visualization Conference (InfoVis) 2010.*

[5] **Lars Grammel**, Margaret-Anne Storey "Web-based Analytics with Multiple Coordinated Visualizations", *Poster, IBM CAS University Days, Toronto, 2010*

[6] **Lars Grammel**, Margaret-Anne Storey, "Supporting Casual Users in Visualizing Information from the Semantic Web", *Exhibit, Technology Showcase, CASCON 2009.*

[7] **Lars Grammel**, Margaret-Anne Storey, "Visualization Mashups for Casual Users", *Poster, Consortium for Software Engineering Research (CSER) meeting Fall 2009.*

[8] **Lars Grammel**, Margaret-Anne Storey, "Visualization Mashups for Casual Users", *Poster, IBM CAS University Days, Toronto, 2009.*

[9] **Lars Grammel**, "Development of Visual Interfaces for Mashups", *Exhibit, Technology Showcase, CASCON 2008.*

[10] **Lars Grammel**, Margaret-Anne Storey, "End User Development of Visualizations", *Poster, Consortium for Software Engineering Research (CSER) meeting Fall 2008.*

[11] **Lars Grammel**, Margaret-Anne Storey, "End User Development of Visualizations", *Poster, IBM CAS University Days, Toronto, 2008.*

References

References are available upon request.