

Christoph Treude, PhD

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Research Interests

Empirical Software Engineering, Natural Language Processing, Computer Supported Collaborative Work, Human Computer Interaction, Computer Security, Software Documentation, Social Media

Experience

Since 2016: Senior Lecturer, *University of Adelaide, Australia*

Research Focus: Source code and everything else: Enabling full access to software repositories

2015: Researcher, *Universidade de São Paulo, Brazil*

Research Focus: Automatically generating and summarizing open source project documentation for newcomers.

2014 – 2015: Researcher, *Universidade Federal do Rio Grande do Norte, Brazil*

Research Focus: Methods, tools and metrics based on Mining Software Repository techniques to evaluate the contributions of software developers and development teams.

2012 – 2014: Postdoctoral Researcher, *McGill University, Canada*

Supervisor: Dr. Martin Robillard

Research Focus: Automated Analysis of Software Documentation and Recommendation Systems for Software Engineering.

2007 – 2012: PhD in Computer Science, *University of Victoria, Canada*

Supervisors: Dr. Margaret-Anne Storey and Dr. Jens Weber

Research Focus: The Role of Social Media Artifacts in Collaborative Software Development.

Education

2007 – 2012: PhD in Computer Science, *University of Victoria, Canada*

2005 – 2006: Exchange student, *University of British Columbia, Canada*

2000 – 2007: *Diplom* in Computer Science/Management Information Systems, *Universität Siegen, Germany*

Publications

2018

M. Zahedi, M. Ali Babar, and C. Treude. An Empirical Study of Security Issues Posted in Open Source Projects. In *HICSS '18: Proceedings of the 51st Hawaii International Conference on System Sciences*, 2018. To appear.

2017

M. Aniche, G. Bavota, **C. Treude**, M. A. Gerosa, and A. van Deursen. Code Smells for Model-View-Controller Architectures. In *Empirical Software Engineering*, 2017. To appear.

D. A. da Costa, S. McIntosh, **C. Treude**, U. Kulesza, and A. E. Hassan. The Impact of Rapid Release Cycles on the Integration Delay of Fixed Issues. In *Empirical Software Engineering*, 2017. To appear.

I. S. Wiese, R. Ré, I. Steinmacher, R. T. Kuroda, G. Oliva, **C. Treude**, and M. A. Gerosa. Using contextual information to predict co-changes. In *Journal of Systems and Software* 128 (June 2017), pages 220-235, 2017.

F. N. A. Al Omran and **C. Treude**. Choosing an NLP Library for Analyzing Software Documentation: A Systematic Literature Review and a Series of Experiments. In *MSR '17: Proceedings of the 14th International Conference on Mining Software Repositories*, 2017. To appear.
(Acceptance rate 31%)

C. Treude and M. P. Robillard. Understanding Stack Overflow Code Fragments. In *ICSME '17: Proceedings of the 33rd International Conference on Software Maintenance and Evolution, NIER Track*, 2017. To appear.
(Acceptance rate 58%)

M. P. Robillard, A. Marcus, **C. Treude**, G. Bavota, O. Chaparro, N. Ernst, M. A. Gerosa, M. Godfrey, M. Lanza, M. Linares-Vásquez, G. Murphy, L. Moreno, D. Shepherd, and E. Wong. On-Demand Developer Documentation. In *ICSME '17: Proceedings of the 33rd International Conference on Software Maintenance and Evolution, NIER Track*, 2017. To appear.
(Acceptance rate 58%)

B. A. Campbell and **C. Treude**. NLP2Code: Code Snippet Content Assist via Natural Language Tasks. In *ICSME '17: Proceedings of the 33rd International Conference on Software Maintenance and Evolution, Demo Track*, 2017. To appear.
(Acceptance rate 50%)

F. Steffens, S. Marczak, F. Figueira Filho, **C. Treude**, and C. de Souza. A Preliminary Evaluation of a Gamification Framework to Jump Start Collaboration Behavior Change. In *CHASE '17: Proceedings of the 10th International Workshop on Cooperative and Human Aspects of Software Engineering*, 2017. To appear.

L. Silva, F. Pinto, U. Kulesza, and C. Treude. PerfMiner Visualizer: uma ferramenta para análise da evolução do atributo de qualidade de desempenho em sistemas de software. In *SBES '17: Proceedings of the 31st Brazilian Symposium on Software Engineering*, 2017. To appear.

2016

C. Treude and M. P. Robillard. Augmenting API Documentation with Insights from Stack Overflow. In *ICSE '16: Proceedings of the 38th International Conference on Software Engineering*, pages 392-403, 2016.
(Acceptance rate 19%)

I. Steinmacher, T. U. Conte, **C. Treude**, and M. A. Gerosa. Overcoming Open Source Project Entry Barriers with a Portal for Newcomers. In *ICSE '16: Proceedings of the 38th International Conference on Software Engineering*, pages 273-284, 2016.
(Acceptance rate 19%)

R. Coelho, L. Almeida, G. Gousios, A. van Deursen, and **C. Treude**. Exception Handling Bug Hazards in Android: Results from a Mining Study and an Exploratory Survey. In *Empirical Software Engineering*, 2016. To appear.

C. de Souza, F. Figueira Filho, M. Miranda, R. Ferreira, **C. Treude**, and L. Singer. The Social Side of Software Platform Ecosystems. In *CHI '16: Proceedings of the 34th Annual ACM Conference on Human Factors in Computing Systems*, 2016, pages 3204-3214.

(Acceptance rate 23%)

M. Aniche, G. Bavota, **C. Treude**, A. van Deursen, and M. A. Gerosa. A Validated Set of Smells in Model-View-Controller Architectures. In *ICSME '16: Proceedings of the 32nd International Conference on Software Maintenance and Evolution*, 2016. To appear.

(Acceptance rate 29%)

I. S. Wiese, I. Steinmacher, **C. Treude**, J. T. Da Silva, and M. A. Gerosa. Who is who in the mailing list? Comparing six disambiguation heuristics to identify multiple addresses of a participant. In *ICSME '16: Proceedings of the 32nd International Conference on Software Maintenance and Evolution*, 2016. To appear.

(Acceptance rate 29%)

M. Aniche, **C. Treude**, A. Zaidman, A. van Deursen, and M. A. Gerosa. SATT: Tailoring Code Metric Thresholds for Different Software Architectures. In *SCAM '16: Proceedings of the 16th International Working Conference on Source Code Analysis and Manipulation*, 2016. To appear.

(Acceptance rate 38%)

M. Aniche, M. A. Gerosa, and **C. Treude**. Developers' Perceptions on Object-Oriented Design and Architectural Roles. In *SBES '16: Proceedings of the 30th Brazilian Symposium on Software Engineering*, 2016. To appear.

2015

C. Treude, M. P. Robillard, and B. Dagenais. Extracting Development Tasks to Navigate Software Documentation. In *IEEE Transactions on Software Engineering* 41, 6 (June 2015), pages 565-581, 2015.

C. Treude, F. Figueira Filho, and U. Kulesza. Summarizing and Measuring Development Activity. In *ESEC/FSE '15: Proceedings of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering*, pages 625-636, 2015.

(Acceptance rate 25%)

F. Figueira Filho, M. G. Perin, **C. Treude**, S. Marczak, L. Melo, I. Marques da Silva, and L. Bibiano dos Santos. A study on the geographical distribution of Brazil's prestigious software developers. In *Journal of Internet Services and Applications* 6, 17 (June 2015), pages 1-12, 2015.

F. Pinto, U. Kulesza, and **C. Treude**. Automating the Performance Deviation Analysis for Multiple System Releases: an Evolutionary Study. In *SCAM '15: Proceedings of the 15th International Working Conference on Source Code Analysis and Manipulation*, pages 201-210, 2015.

(Acceptance rate 35%)

R. Ferreira, M. Miranda, F. Figueira Filho, C. de Souza, **C. Treude**, and L. Singer. Os Aspectos Sociais dos Ecosistemas de Software. In *SBSC '15: Proceedings of the Brazilian Symposium in Collaborative Systems*, 2015. To appear.

(Best Paper)

F. Steffens, S. Marczak, F. Figueira Filho, **C. Treude**, L. Singer, D. Redmiles, and B. Al-Ani. Using Gamification as a Collaboration Motivator for Software Development Teams: A Preliminary Framework. In *SBSC '15: Proceedings of the Brazilian Symposium in Collaborative Systems*, 2015. To appear.

J. Lima, **C. Treude**, F. Figueira Filho, and U. Kulesza. Assessing Developer Contribution with Repository Mining-based Metrics. In *ICSME '15: Proceedings of the 31st International Conference on Software Maintenance and Evolution*, pages 536-540, 2015.

(Acceptance rate 35%)

L. Leite, **C. Treude**, and F. Figueira Filho. UEDashboard: Awareness of Unusual Events in Commit Histories. In *ESEC/FSE '15: Proceedings of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering*, pages 978-981, 2015.

C. Treude, C. Prolo, and F. Figueira Filho. Challenges in Analyzing Software Documentation in Portuguese. In *SBES '15: Proceedings of the 29th Brazilian Symposium on Software Engineering*, pages 179-184, 2015.

C. Treude, M. Sicard, M. Klocke, and M. P. Robillard. TaskNav: Task-based Navigation of Software Documentation. In *ICSE '15: Proceedings of the 37th International Conference on Software Engineering*, pages 649-652, 2015.

(Acceptance rate 60%)

S. Marczak, F. Figueira Filho, L. Singer, **C. Treude**, F. Steffens, D. Redmiles, and B. Al-Ani. Studying Gamification as a Collaboration Motivator for Virtual Software Teams: Social Issues, Cultural Issues, and Research Methods. In *Proceedings of the CSCW 2015 workshop on Doing CSCW Research in Latin America: Differences, Opportunities, Challenges, and Lessons Learned*, 2015.

L. Leite, **C. Treude**, and F. Figueira Filho. An Automatic Approach to Detect Unusual Events in Software Repositories. In *ELA-ES '15: Proceedings of the 2nd Latin-American School on Software Engineering*, 2015.

2013

L. Singer, F. Figueira Filho, B. Cleary, **C. Treude**, M.-A. Storey, and K. Schneider. Mutual Assessment in the Social Programmer Ecosystem: An Empirical Investigation of Developer Profile Aggregators. In *CSCW '13: Proceedings of the Conference on Computer Supported Cooperative Work*, pages 103-116, 2013.

(Acceptance rate 36%; nominated for Best Paper)

C. Parnin, **C. Treude**, and M.-A. Storey. Blogging Developer Knowledge: Motivations, Challenges and Future Directions. In *ICPC '13: Proceedings of the 21st International Conference on Program Comprehension*, pages 211-214, 2013.

(Acceptance rate 36%; Most Promising Idea Award)

B. Cleary, M.-A. Storey, C. Gomez, L. Singer, and **C. Treude**. Analyzing the Friendliness of Exchanges in an Online Software Developer Community. In *CHASE '13: Proceedings of 6th International Workshop on Cooperative and Human Aspects of Software Engineering*, pages 159-160, 2013.

B. Cleary, **C. Treude**, F. Figueira Filho, M.-A. Storey, and M. Salois. Improving Tool Support for Software Reverse Engineering in a Security Context. In *Foundations of Augmented Cognition, Lecture Notes in Computer Science*, D. D. Schmorrow and C. M. Fidopiastis, Eds., pages 113-122, 2013.

O. Barzilay, **C. Treude**, and A. Zagalsky. Facilitating Crowd Sourced Software Engineering via Stack Overflow. In *Finding Source Code on the Web for Remix and Reuse*, S. E. Sim and R. Gallardo-Valencia, Eds., pages 289-308, 2013.

2012

C. Treude and M.-A. Storey. Work Item Tagging: Communicating Concerns in Collaborative Software Development. In *IEEE Transactions on Software Engineering* 38, 1 (January/February 2012), pages 19-34, 2012.

(Special Section on Selected Papers from ICSE '09)

C. Treude, P. Gorman, L. Grammel, and M.-A. Storey. WorkItemExplorer: Visualizing Software Development Tasks Using an Interactive Exploration Environment. In *ICSE '12: Proceedings of the 34th International Conference on Software Engineering*, pages 1399-1402, 2012.
(Acceptance rate 31%)

C. Treude, F. Figueira Filho, B. Cleary, and M.-A. Storey. Programming in a Socially Networked World: the Evolution of the Social Programmer. In *FutureCSD '12: Proceedings of the CSCW Workshop on the Future of Collaborative Software Development*, 2012.

C. Treude. The Role of Social Media Artifacts in Collaborative Software Development. *PhD thesis, University of Victoria*, 2012.

C. Parnin, **C. Treude**, L. Grammel, and M.-A. Storey. Crowd Documentation: Exploring the Coverage and the Dynamics of API Discussions on Stack Overflow. *Georgia Tech Technical Report GIT-CS-12-05, Georgia Institute of Technology*, 2012.

2011

C. Treude and M.-A. Storey. Effective Communication of Software Development Knowledge Through Community Portals. In *ESEC/FSE '11: Proceedings of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering*, pages 91-101, 2011.
(Acceptance rate 17%)

C. Treude, F. Figueira Filho, M.-A. Storey, and M. Salois. An Exploratory Study of Software Reverse Engineering in a Security Context. In *WCRE '11: Proceedings of the 18th Working Conference on Reverse Engineering*, pages 184-188, 2011.
(Acceptance rate 48%)

C. Treude, O. Barzilay, and M.-A. Storey. How do Programmers Ask and Answer Questions on the Web? (NIER Track). In *ICSE '11: Proceedings of the 33rd ACM/IEEE International Conference on Software Engineering*, pages 804-807, 2011.
(Acceptance rate 23%)

C. Parnin and **C. Treude**. Measuring API Documentation on the Web. In *Web2SE '11: Proceedings of the 2nd International Workshop on Web 2.0 For Software Engineering*, pages 25-30, 2011.

C. Treude, M.-A. Storey, A. van Deursen, A. Begel, and S. Black. Second International Workshop on Web 2.0 for Software Engineering (Web2SE 2011). In *ICSE '11: Proceedings of the 33rd ACM/IEEE International Conference on Software Engineering*, pages 1222-1223, 2011.

C. Treude, M.-A. Storey, A. van Deursen, A. Begel, and S. Black. Workshop Report from Web2SE 2011: 2nd International Workshop on Web 2.0 for Software Engineering. In *SIGSOFT Software Engineering Notes 36, 5 (September 2011)*, pages 24-29, 2011.

2010

C. Treude and M.-A. Storey. Awareness 2.0: Staying Aware of Projects, Developers and Tasks using Dashboards and Feeds. In *ICSE '10: Proceedings of the 32nd ACM/IEEE International Conference on Software Engineering – Volume 1*, pages 365-374, 2010.
(Acceptance rate 14%)

C. Treude and M.-A. Storey. Bridging Lightweight and Heavyweight Task Organization: The Role of Tags in Adopting New Task Categories. In *ICSE '10: Proceedings of the 32nd ACM/IEEE International Conference on Software Engineering – Volume 2*, pages 231-234, 2010.
(Acceptance rate 25%)

- G. Bougie, C. Treude, D. M. German, and M.-A. Storey. A Comparative Exploration of FreeBSD Bug Lifetimes. In *MSR '10: Proceedings of the 2010 International Working Conference on Mining Software Repositories*, pages 106-109, 2010.
- M.-A. Storey, C. Treude, A. van Deursen, and L.-T. Cheng. The Impact of Social Media on Software Engineering Practices and Tools. In *FoSER '10: Proceedings of the FSE/SDP workshop on Future of software engineering research*, pages 359-364, 2010.
- L. Grammel, H. Schackmann, A. Schröter, C. Treude and M.-A. Storey. Attracting the Community's Many Eyes: an Exploration of User Involvement in Issue Tracking. In *HAoSE' 10: Human Aspects of Software Engineering*, Article 3, 2010.
- C. Treude and M.-A. Storey. The Implications of How We Tag Software Artifacts: Exploring Different Schemata and Metadata for Tags. In *Web2SE '10: Proceedings of the 1st Workshop on Web 2.0 For Software Engineering*, pages 12-13, 2010.
- L. Grammel, C. Treude, and M.-A. Storey. Mashups Environments in Software Engineering. In *Web2SE '10: Proceedings of the 1st Workshop on Web 2.0 For Software Engineering*, pages 24-25, 2010.
- M.-A. Storey, L. Grammel, and C. Treude. Smart Media: Bridging Interactions and Services for the Smart Internet. In *The Smart Internet, Lecture Notes in Computer Science*, M. Chignell, J. Cordy, J. Ng, and Y. Yesha, Eds., pages 152-169, 2010.
- C. Treude. The Role of Emergent Knowledge Structures in Collaborative Software Development. In *ICSE '10: Proceedings of the 32nd ACM/IEEE International Conference on Software Engineering – Volume 2*, pages 389-392, 2010.
- C. Treude, M.-A. Storey, K. Ehrlich, and A. van Deursen. Web2SE: First Workshop on Web 2.0 for Software Engineering. In *ICSE '10: Proceedings of the 32nd ACM/IEEE International Conference on Software Engineering – Volume 2*, pages 457-458, 2010.
- C. Treude, M.-A. Storey, K. Ehrlich, and A. van Deursen. Workshop report from Web2SE: First workshop on Web 2.0 for Software Engineering. In *SIGSOFT Software Engineering Notes* 35, 5 (October 2010), pages 45-50, 2010.

2009

- C. Treude and M.-A. Storey. How tagging helps bridge the gap between social and technical aspects in software development. In *ICSE '09: Proceedings of the 2009 IEEE 31st International Conference on Software Engineering*, pages 12-22, 2009.
(Acceptance rate 12%; invited to TSE Special Section on Selected Papers from ICSE '09)
- C. Treude and M.-A. Storey. ConcernLines: A timeline view of co-occurring concerns. In *ICSE '09: Proceedings of the 2009 IEEE 31st International Conference on Software Engineering*, pages 575-578, 2009.
(Acceptance rate 33%)
- L. Grammel, M.-A. Storey, and C. Treude. User interfaces for visual analysis and monitoring in business intelligence. In *CASCON '09: Proceedings of the 2009 Conference of the Center for Advanced Studies on Collaborative Research*, pages 323-324, 2009.
- C. Treude, M.-A. Storey, and J. Weber. Empirical Studies on Collaboration in Software Development: A Systematic Literature Review. *Technical Report DCS-331-IR, Department of Computer Science, University of Victoria*, 2009.

2007

C. Treude, S. Berlik, S. Wenzel, and U. Kelter. Difference computation of large models. In *ESEC/FSE '07: Proceedings of the 6th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering*, pages 295-304, 2007.

(Acceptance rate 17%)

C. Treude. Einsatz multidimensionaler Suchstrukturen zur Optimierung der Bestimmung von Dokumentdifferenzen. *Diplom thesis, Universität Siegen*, 2007.
(in German)

Presentations

Keynote Addresses

How Do Social Media Artifacts Support Collaborative Software Development? Empirical Studies from the University of Victoria

September 5, 2011, 4th International Workshop on Social Software Engineering, Szeged, Hungary

Invited Talks

Unlocking the insights hidden in software documentation

October 18, 2017, Monash University, Melbourne, Australia

Using Natural Language Processing to Enhance Software Documentation

July 10, 2017, Harbin Institute of Technology, Harbin, China

Code Snippet Content Assist via Software Development Tasks

July 7, 2017, Harbin Institute of Technology, Harbin, China

Supporting Newcomers to Software Projects

July 6, 2017, Harbin Institute of Technology, Harbin, China

Building Tools to Improve Access to Software Documentation

June 19, 2017, Singapore Management University, Singapore

“Stop trying to do what you’re trying to do”: Developers’ Perceptions of Measuring Productivity

March 6, 2017, Dagstuhl Seminar on Rethinking Productivity in Software Engineering, Dagstuhl, Germany

Searching and summarizing software documentation

February 7, 2017, Northern Arizona University, Flagstaff, AZ, United States

Improving access to software documentation

January 18, 2017, Data61, Sydney, NSW, Australia

Finding and navigating software documentation

June 14, 2016, MapTek, Adelaide, SA, Australia

Making sense of software documentation with natural language processing

April 18, 2016, Hong Kong University of Science and Technology, Hong Kong, China

Using natural language processing to make sense of software documentation

April 4, 2016, Deakin University, Melbourne, Australia

Using NLP to identify meaningful sentences in informal documentation

March 7, 2016, NII Shonan Meeting on Mining & Modeling Unstructured Data in Software – Challenges for the Future, Shonan, Japan

TaskNav: A Search Interface for Software Documentation Using Natural Language Processing

December 3, 2015, Fluminense Federal University, Niterói, RJ, Brazil

Searching Software Documentation with the Help of Natural Language Processing

November 12, 2015, Bluesoft, São Paulo, SP, Brazil

Source code and everything else: Enabling full access to software repositories

October 13, 2015, University of Adelaide, SA, Australia

Using Natural Language Processing to Extract Task Descriptions from Software Documentation

September 17, 2015, Concordia University, Montreal, QC, Canada

Supporting Software Developers by Automatically Extracting Development Task Descriptions

February 27, 2015, Universidade de São Paulo, SP, Brazil

The Role of Social Media Artifacts in Collaborative Software Development

April 9, 2012, University of Massachusetts Amherst, MA, United States

The Role of Social Media Artifacts in Collaborative Software Development

February 27, 2012, The College of William and Mary, Williamsburg, VA, United States

The Role of Social Media Artifacts in Collaborative Software Development

February 25, 2012, Rochester Institute of Technology, Rochester, NY, United States

Awareness 2.0: Staying Aware of Projects, Developers and Tasks using Dashboards and Feeds

September 1, 2010, IBM Research, Hawthorne, NY, United States

Lightweight Collaboration: Tags, Dashboards and Feeds in IBM's Jazz

March 22, 2010, University of California, Irvine, CA, United States

Dashboards in IBM's Jazz: Business Intelligence for Software Development

November 4, 2009, IBM CASCON Workshop on User Interfaces for Visual Analysis and Monitoring in Business Intelligence, Toronto, ON, Canada

Lightweight Collaboration: Tags, Dashboards & Feeds in Jazz

August 20, 2009, McGill University, Montreal, QC, Canada

How Tagging Supports Informal Processes in Software Development

Aug 3, 2009, Department of National Defense, Valcartier, QC, Canada

Tags for Work Items and Dashboards in IBM's Jazz

July 3, 2009, IBM Cognos, Ottawa, ON, Canada

How Tagging Supports Informal Processes in Software Development

June 25, 2009, IBM Research, Hawthorne, NY, United States

How Tagging Supports Informal Processes in Software Development

June 22, 2009, IBM Research, Cambridge, MA, United States

Presentations at Seminars and Meetings

How We Do Research: the Graduate Students' View

November 17, 2011, Graduate Student Seminar, University of Victoria, BC, Canada

Work Item Explorer: Exploring Jazz work items using an interactive visualization

(with Patrick Gorman, Bradley Blashko, Lars Grammel, and Margaret-Anne Storey)

October 31, 2010, Consortium for Software Engineering Research (CSER) Fall Meeting, Toronto, ON, Canada

Awareness 2.0: Staying Aware of Projects, Developers and Tasks using Dashboards and Feeds in Jazz

June 29, 2010, IBM CAS Seminar, IBM Ottawa, ON, Canada

Lightweight Collaboration: Tags, Dashboards & Feeds in Jazz

October 28, 2009, IBM CAS Seminar, IBM Ottawa, ON, Canada

Tagging in Jazz & the Visibility of Collaboration in Software Development

June 4, 2009, IBM CAS Seminar, IBM Ottawa, ON, Canada

Team Work in Software Evolution: A Systematic Literature Review

April 27, 2009, Consortium for Software Engineering Research (CSER) Spring Meeting, Montreal, QC, Canada

How Tagging helps bridge the Gap between Social and Technical Aspects in Software Development

March 27, 2009, Software Engineering Colloquium, University of Victoria, BC, Canada

Research on collaborative software development using IBM's Jazz

October 26, 2008, Consortium for Software Engineering Research (CSER) Fall Meeting, Toronto, ON, Canada

Collaboration through Artifacts

June 12, 2008, IBM CAS Seminar, IBM Ottawa, ON, Canada

Difference Computation of Large Models

November 23, 2007, Software Engineering Colloquium, University of Victoria, BC, Canada

Difference Computation of Large Models

October 4, 2007, IBM CAS Seminar, IBM Ottawa, ON, Canada

Posters and Exhibits

Visualizing software development tasks using multiple coordinated views

(with Patrick Gorman, Lars Grammel, and Margaret-Anne Storey)

November 7-10, 2011, IBM CASCON 2011, Toronto, ON, Canada

Work Item Explorer: Exploring Jazz work items using an interactive visualization

(with Patrick Gorman, Bradley Blashko, Lars Grammel, and Margaret-Anne Storey)

November 1-4, 2010, IBM CASCON 2010, Toronto, ON, Canada

Dashboards in IBM's Jazz: Business Intelligence for Software Development

November 2-5, 2009, IBM CASCON 2009, Toronto, ON, Canada

Dashboards in IBM's Jazz: Business Intelligence for Software Development

November 1, 2009, Consortium for Software Engineering Research (CSER) Fall Meeting, Toronto, ON, Canada

How Tagging Supports Informal Processes in Software Development

May 19, 2009, IBM Jazz Research Reception at the International Conference on Software Engineering (ICSE), Vancouver, BC, Canada

Tag Clouds for Semi-Structured Documents (with Maria-Elena Hernandez and Sean Falconer)
October 27-30, 2008, IBM CASCON 2008, Toronto, ON, Canada

How Tagging Supports Informal Processes in Software Development
October 26, 2008, Consortium for Software Engineering Research (CSER) Fall Meeting, Toronto, ON, Canada

Teaching

Supervised Students

PhD: Mahfouth Ahmad Alghamdi
Summarising Software Engineering Data
(Co-supervised with Markus Wagner)
October 2017 – , University of Adelaide, Australia

PhD: Bakheet Hamdan M Aljedaani
A Knowledge-based Approach to the Development of Secure Software for IoT-based Healthcare
(Co-supervised with M. Ali Babar)
September 2016 – , University of Adelaide, Australia

MSc degree: Alantiel Freire Marins
Summarizing and Measuring Development Activity
(Co-supervised with Marco A. Gerosa)
Started August 2015, Universidade de São Paulo, Brazil

Bachelor's thesis: Larissa Leite
An Automatic Approach to Detect and Notify Development Teams of Unusual Events in Software Repositories
(Co-supervised with Fernando Figueira Filho)
January 2015 – April 2015, Universidade Federal do Rio Grande do Norte, Brazil

Undergraduate Co-op Software Developer: Marc Klocke
TaskNav: Web Platform for Documentation Analysis
(Co-supervised with Martin Robillard)
May 2014 – August 2014, McGill University, Canada

Undergraduate Co-op Software Developer: Mathieu Sicard
TaskNav: Web Platform for Documentation Analysis
(Co-supervised with Martin Robillard)
May 2014 – August 2014, McGill University, Canada

Undergraduate Research Project: Ben Fisher
Interface and API Design for Documentation Analysis
(Co-supervised with Martin Robillard)
January 2014 – April 2014, McGill University, Canada

Undergraduate Co-op Software Developer: Mathieu Nassif
Infrastructure for API Documentation Analysis
(Co-supervised with Martin Robillard)
May 2013 – August 2013 and May 2014 – August 2014, McGill University, Canada

Undergraduate Co-op Software Developer: Joshua Liben
Infrastructure for API Documentation Analysis
(Co-supervised with Martin Robillard)
May 2013 – August 2013, McGill University, Canada

Part-time programmer: Thor Kell

Development of a workflow support prototype for reverse engineers in a security context
 (Co-supervised with Brendan Cleary and Margaret-Anne Storey)
January 2012 – April 2012, University of Victoria, Canada

Undergraduate Co-op Software Developer: Patrick Gorman

Development of WorkItemExplorer, an interactive environment to visually explore issue tracking data
 (Co-supervised with Lars Grammel and Margaret-Anne Storey)
May 2010 – August 2010 and May 2011 – August 2011, University of Victoria, Canada

Honours thesis: Patrick Gorman

Evaluation of WorkItemExplorer through user studies with professional software developers
 (Co-supervised with Margaret-Anne Storey)
September 2011 – December 2011, University of Victoria, Canada

*Instructor***Mining Software Repositories** (*Undergraduate and Graduate course, co-taught with Fernando Figueira Filho and Uirá Kulesza*)

February 2015 – June 2015, Universidade Federal do Rio Grande do Norte, Brazil

Programmierpraktikum (*programming course in Java, taught in German*)

April 2007 – July 2007, Universität Siegen, Germany

*Teaching Seminars Taken***EDCI 560:** Teaching and Learning in Higher Education

January 2009 – April 2009, University of Victoria, Canada

*Teaching Assistant***SENG 435/CSC 485A/CSC 578A:** Computer-Supported Collaborative Work

September 2009 – December 2009, University of Victoria, Canada

SENG 371: Software Evolution

September 2008 – December 2008, University of Victoria, Canada

CSC 105: Computers and Information Processing

September 2007 – December 2007, University of Victoria, Canada

Softwaretechnik I / Datenbanksysteme I (*courses on Software Engineering and Database Systems, taught in German*)

October 2003 – March 2004, Universität Siegen, Germany

Programmierpraktikum (*programming course in Java, taught in German*)

April 2003 – September 2003 and April 2004 – March 2005, Universität Siegen, Germany

Activities*Workshop Organization*

SSE 2016: 8th International Workshop on Social Software Engineering at the Symposium on the Foundations of Software Engineering (FSE) 2016
with Fabio Calefato and Andrew Begel

QualiDASE 2015: Bellairs 2015 Workshop on Qualitative Data Analysis in Software Engineering at McGill University's Bellairs Research Institute
with Martin Robillard

ProK 2014: Bellairs 2014 Workshop on Representing Programming Knowledge at McGill University's Bellairs Research Institute
with Martin Robillard

Web2SE 2011: 2nd International Workshop on Web 2.0 for Software Engineering at the International Conference on Software Engineering (ICSE) 2011
with Margaret-Anne Storey, Arie van Deursen, Andrew Begel, and Sue Black

Web2SE 2010: First Workshop on Web 2.0 for Software Engineering at the International Conference on Software Engineering (ICSE) 2010
with Margaret-Anne Storey, Arie van Deursen, and Kate Ehrlich

User Interfaces for Visual Analysis and Monitoring in Business Intelligence at IBM CASCON 2009
with Lars Grammel and Margaret-Anne Storey

Service to the Community

IEEE Software Blog: Associate Editor (Human Factors)

ICSE 2016: Publicity Team

ICSE 2014: Publicity Chair

UVic SE Colloquium: Co-organizer of Software Engineering Colloquium at University of Victoria, 2007–2009

Program Committee Memberships

FSE 2018: ACM SIGSOFT Symposium on the Foundations of Software Engineering

SANER 2018: 25th International Conference on Software Analysis, Evolution and Reengineering

MSR 2018: 15th International Conference on Mining Software Repositories

CSCW 2018: 21st Conference on Computer-Supported Cooperative Work and Social Computing (External Reviewer)

SCORE 2018: Student Contest on Software Engineering @ ICSE 2018

ICSE 2018 SRC: Student Research Competition of the 40th International Conference on Software Engineering

ICSE 2017: 39th International Conference on Software Engineering

ICSME 2017: 33rd International Conference on Software Maintenance and Evolution

SANER 2017: 24th International Conference on Software Analysis, Evolution, and Reengineering

ICGSE 2017: 12th International Conference on Global Software Engineering

SCAM 2017: 17th International Working Conference on Source Code Analysis and Manipulation

ICSE 2017 SRC: Student Research Competition of the 39th International Conference on Software Engineering

ICSME NIER 2017: New Ideas track of the 33rd International Conference on Software Maintenance and Evolution

ISEC 2017: 10th India Software Engineering Conference

EAST 2017: 4th International Workshop on Evidential Assessment of Software Technologies

CHI 2017: International Conference of Human-Computer Interaction (External Reviewer, recognized as Excellent Reviewer)

CSCW 2017: 20th Conference on Computer-Supported Cooperative Work and Social Computing (External Reviewer)

SCAM 2016: 16th International Working Conference on Source Code Analysis and Manipulation

MSR 2016: 13th Working Conference on Mining Software Repositories

SBCARS 2016: 10th Brazilian Symposium on Software Components, Architectures, and Reuse

ICGSE 2016: 11th International Conference on Global Software Engineering

ICSME ERA 2016: Early Research Achievements track of the 32nd International Conference on Software Maintenance and Evolution

FSE 2016 Artifacts Track: Artifacts track of the 24th International Symposium on the Foundations of Software Engineering

ICSME 2016 Artifacts Track: Artifacts track of the 32nd International Conference on Software Maintenance and Evolution

SANER ERA 2016: Early Research Achievements track of the 23rd International Conference on Software Analysis, Evolution, and Reengineering

CSI-SE 2016: 3rd International Workshop on CrowdSourcing in Software Engineering @ ICSE 2016

CHASE 2016: 9th International Workshop on Cooperative and Human Aspects of Software Engineering @ ICSE 2016

WASHES 2016: 1st Workshop on Social, Human, and Economic Aspects of Software @ SBQS 2016

SSE 2015: 7th International Workshop on Social Software Engineering @ FSE 2015

OISE 2015: First Workshop of Open Innovation in Software Engineering

STIL 2015: Symposium in Information and Human Language Technology

ICSME ERA 2015: Early Research Achievements track of the 31st International Conference on Software Maintenance and Evolution

SBCARS 2015: 9th Brazilian Symposium on Software Components, Architectures and Reuse @ CBSOFT 2015

CHI 2015: International Conference of Human-Computer Interaction (External Reviewer)

CSI-SE 2015: 2nd International Workshop on CrowdSourcing in Software Engineering @ ICSE 2015

CHASE 2015: Cooperative and Human Aspects of Software Engineering @ ICSE 2015

MSR Mining Challenge 2015: Mining Challenge of the 12th Working Conference on Mining Software Repositories

MSR 2015: 12th Working Conference on Mining Software Repositories

SANER ERA 2015: Early Research Achievements track of the 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering

ICSME 2015: 31st International Conference on Software Maintenance and Evolution

SSE 2014: 6th International Workshop on Social Software Engineering @ FSE 2014

ICSME ERA 2014: Early Research Achievements track of the 30th International Conference on Software Maintenance and Evolution

CSI-SE 2014: Crowdsourcing in Software Engineering @ ICSE 2014

CHASE 2014: Cooperative and Human Aspects of Software Engineering @ ICSE 2014

MSR 2014: 11th Working Conference on Mining Software Repositories

MSR Mining Challenge 2014: Mining Challenge of the 11th Working Conference on Mining Software Repositories

CSMR-WCRE Demo 2014: Tool Demonstrations track of the CSMR-WCRE 2014 Software Evolution Week

CSMR-WCRE ERA 2014: Early Research Achievements track of the CSMR-WCRE 2014 Software Evolution Week

ICSE Posters 2014: Poster track @ ICSE 2014

SSE 2013: 5th International Workshop on Social Software Engineering @ ESEC/FSE 2013

ICPC ERA 2013: Early Research Achievements track of the 21st International Conference on Program Comprehension

ICSE SCORE 2013: Student Contest on Software Engineering @ ICSE 2013

ICPC Demo 2013: Tool demo track of the 21st International Conference on Program Comprehension

CHASE 2013: Cooperative and Human Aspects of Software Engineering @ ICSE 2013

MSR Mining Challenge 2013: Mining Challenge of the 10th Working Conference on Mining Software Repositories

CSMR ERA 2013: Early Research Achievements track of the 17th European Conference on Software Maintenance and Reengineering

ICPC 2012: 20th International Conference on Program Comprehension

ICPC Demo 2012: Tool demo track of the 20th International Conference on Program Comprehension

FutureCSD 2012: The Future of Collaborative Software Development @ CSCW 2012

FSE NIER 2012: New Ideas track of the International Symposium on the Foundations of Software Engineering

FlexiTools 2011: Flexible Modeling Tools @ ICSE 2011

PLATEAU 2010: Evaluation and Usability of Programming Languages and Tools @ SPLASH 2010

CHASE 2010: Cooperative and Human Aspects of Software Engineering @ ICSE 2010

Journal Reviews

TSE: IEEE Transactions on Software Engineering (9 papers since 2010)

EMSE: Empirical Software Engineering journal (16 papers since 2010, Member of the 2014/2015 and 2015/2016 EMSE Review Boards)

TOSEM: Transactions on Software Engineering and Methodology (1 paper since 2015)

JSS: Journal of Systems and Software (3 papers since 2015)

TOIT: ACM Transactions on Internet Technology (2 papers since 2013)

JSME: Journal of Software: Evolution and Process (4 papers since 2014)

TBIT: Behaviour & Information Technology (2 papers since 2015)

T-IFS: IEEE Transactions on Information Forensics and Security (1 paper in 2013)

IEEE Software (8 papers since 2012)

JBCS: Journal of the Brazilian Computer Society (2 papers since 2016)

PeerJ (3 papers since 2015)

Reviewer

APSEC: Asia-Pacific Software Engineering Conference, 2016

ASE: International Conference Automated Software Engineering, 2013, 2016

ICSE: International Conference on Software Engineering, 2013, 2012, 2010, 2009, 2008

ICSM: International Conference on Software Maintenance, 2011

ESEC/FSE: Joint meeting of the European Software Engineering Conference and the Symposium on the Foundations of Software Engineering, 2011, 2013

FSE: International Symposium on the Foundations of Software Engineering, 2010, 2014

InfoVis: Symposium on Information Visualization, 2009, 2008

VL/HCC: Symposium on Visual Languages and Human-Centric Computing, 2009, 2008

CHASE: Cooperative and Human Aspects of Software Engineering, 2008

Book: Graph Data Management: Techniques and Applications (*Eds. S. Sakr and E. Pardede*)

Awards

2015: Post-doctoral Fellowship from FAPESP, the São Paulo Research Foundation

2015: Best Paper Award at SBSC 2015 (*with Renato Ferreira, Muller Miranda, Fernando Figueira Filho, Cleidson de Souza, and Leif Singer*)

2014 – 2015: Young Talents Scholarship from CNPq's Science Without Borders program, a Brazilian government research initiative

2013: Most Promising Idea Award at ICPC 2013 (*with Chris Parnin and Margaret-Anne Storey*)

2013: Winner of Stack Overflow Visualization Contest (*with Lars Grammel and Chris Parnin*)

2008 – 2011: IBM CAS PhD fellowship

2007 – 2008: University of Victoria fellowship

2004 – 2007: Scholarship from German National Merit Foundation (*Studienstiftung des deutschen Volkes*)

2005 – 2006: Hölderlin Scholarship from SAP AG, Germany

2003 – 2007: Scholarship from e-fellows.net GmbH, Germany

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