

Dr. Alexandre Bergel

Professor (Associate) at the [University of Chile](#), member of the [Intelligent Software Construction laboratory \(ISCLab\)](#).

My research interests include software engineering, software performance, software visualization, programming environment, and machine learning.

I am interested in improving the way we build and maintain software. My current hypotheses are validated using rigorous empirical methodologies.

In 2009 I joined the University of Chile as Assistant Professor, and since 2018 I am Associate Professor.

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Contact

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Academic online profiles

Web of Science ResearcherID: [I-1397-2013](#)

[Google scholar](#)

[DPLP](#)

[ACM](#)

Education

- | | |
|------------------|---|
| 2001-2005 | PhD, Computer Science ; University of Bern (Switzerland). <i>Thesis title: Class-boxes – Controlling Visibility of Class Extensions</i> . Recipient of the <i>Ernst Denert Software Engineering 2006 prize</i> |
| 2000-2001 | Diplôme d'Etudes Approfondies(DEA) d'informatique . University of Nice-Sophia Antipolis (France) |

Academic and Industrial Employment History

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|-----------------------|---|
| 2018 - present | Associate Professor at the Department of Computer Science (DCC) |
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- 2009 - 2018** Assistant Professor at the Department of Computer Science (DCC)
- 10/07 - 05/09** CR2 Researcher at INRIA Lille Nord-Europe
- 04/07 - 10/07** Research fellow (postdoc) at the Software Architecture Group, led by Robert Hirschfeld, at the [Hasso-Plattner-Institut](#)
- 01/06 - 03/07** Research fellow (postdoc) at the [Distributed Systems Group](#), led by Siobhán Clarke and Vinny Cahill

Research Community Implications

I served in the following steering committees:

- 2018 - present: [Seminar Series on Advanced Techniques & Tools for Software Evolution](#)
- 2015 - 2020: [IEEE International Working Conference on Software Visualization \(VISSOFT\)](#)

Since 2020, I am part member of the editorial board of the journal [Empirical Software Engineering](#).

I lead the following international projects:

- 2020 - 2021: Visualizing Software Performance in Immersive Virtual and Augmented Reality. Funded by the [Programa de Cooperación Internacional](#), Chile. Website: <https://visiar-redes.github.io>
- 2018 - 2020: Detection strategies based on Software Metrics for Multitier JavaScript (DAJA). Funded by the STICAmSud. Website: <https://daja-sticamsud.github.io>

I have participated in the following international project evaluation committees:

- *DFG*: Deutsche Forschungsgemeinschaft (2015) – Germany
- *FONDEF*: Fondo de Fomento al Desarrollo Científico y Tecnológico (since 2016) – Chile
- *ANID / CONICYT*: Comisión Nacional de Investigación Científica y Tecnológica (since 2012) – Chile
- *FONCYT*: Comunicaciones y Electrónica del Fondo para la Investigación Científica y Tecnológica (2014, 2019) – Argentina
- *NWO*: Netherlands Organisation for Scientific Research (2012) – Netherlands
- *SNSF*: Swiss National Science Foundation (2009, 2010) – Switzerland

Books

I have co-authored or authored the following books:

- [Agile Artificial Intelligence in Pharo – Implementing Neural Networks, Genetic Algorithms, and Neuroevolution](#), by Alexandre Bergel. Published by APress, July 2020
- [Agile Visualization](#), by Alexandre Bergel. Printed by Lulu, 2016
- [Deep into Pharo](#), by Alexandre Bergel, Damien Cassou, Stéphane Ducasse, Jannik Laval. Printed by Lulu, 2013

I am currently writing the second edition of Agile Visualization, which will be published in 2021.

Awards

I am the recipient of the following awards;

- Premio Ramón Salas E., Instituto de Ingenieros, for the work about the Suchai CubeSat, 2020
- Best paper award at the 7th IEEE Working Conference on Software Visualization 2019 (IEEE VIS-SOFT '19), with Juan Pablo Sandoval Alcocer, Fabian Beck, Alexandre Bergel, for the paper titled "Performance Evolution Matrix: Visualizing Performance Variations along Software Versions"
- Best paper award at the 27th IEEE/ACM International Conference on Program Comprehension 2019 (IEEE ICPC '19), with Juraj Kubelka, Romain Robbes
- Distinguished paper at the 6th IEEE Working Conference on Software Visualization (IEEE VIS-SOFT 2018) for the paper "Overcoming Issues of 3D Software Visualization through Immersive Augmented Reality", with Leonel Merino and Oscar Nierstrasz
- Outstanding Contribution in Reviewing, for the ISI journal Information and Software Technology (October 2016)
- Distinguished Academic, delivered by the University of Chile (April 24, 2015) for the book Deep into Pharo
- Distinguished Reviewer Award, delivered by the IEEE Computer Society SANER Conference 2015
- First position at the 9th Innovation Technology Awards organized by ESUG'12 for our project titled "Object-Centric Debugging"
- Third position at the 9th Innovation Technology Awards organized by ESUG'12 for our project titled "Roassal"
- Best paper award for "Generics and Reverse Generics for Pharo", ICSOFT'12
- Finalist Desafio Intel 2011
- Ernst Denert Award 2006, for my PhD work on Classboxes
- Best paper award for "Classboxes: A Minimal Module Model Supporting Local Rebinding", JMLC'03

Program Committee Participations

To date, I have served in 153 program committees of international conferences:

- **ICSE'22** – 44th International Conference on Software Engineering 2022
- **VISSOFT'21** – 9th IEEE Working Conference on Software Visualization
- **ECSA'21** – 15th European Conference on Software Architecture
- **SEAA-AI4DevOps'21** – 47th EUROMICRO Conference on Software Engineering and Advanced Applications - AI-Enabled Software Development and Operations
- **ICSA'21** – IEEE International Conference on Software Architecture
- **SANER-Industry'21** – 28th IEEE International Conference on Software Analysis, Evolution and Reengineering-Industry track
- **SANER-ERA'21** – 28th IEEE International Conference on Software Analysis, Evolution and Reengineering- Early Research Achievements
- **LANGETI @ FSE/ESEC'20** – 1st Languages and Tools for Next Generation Testing Workshop
- **ACM SRC @ FSE/ESEC'20** – ESEC/FSE 2020 ACM Student Research Competition PC
- **SBCARS 2020** – 14th Brazilian Symposium on Software Components, Architectures, and Reuse
- **IWST 2020** – International Workshop on Smalltalk Technologies
- **COP 2020** – The 12th International Workshop on Context-Oriented Programming and Advanced Modularity
- **VISSOFT 2020** – The Eight IEEE Working Conference on Software Visualization

- **DLS 2020** – Dynamic Languages Symposium
- **Onward! Essays 2020** – Onward! Essays 2020 @ ACM SIGPLAN conference on Systems, Programming, Languages, and Applications
- **SEAA - AI4DevOps 2020** – 46th EUROMICRO Conference on Software Engineering and Advanced Applications – track AI-Enabled Software Development and Operations
- **SESoS/WDE 2020** – 14th Workshop on Distributed Software Development, Software Ecosystems and Systems-of-Systems
- **CibSE 2020** – XXIII Ibero-American Conference on Software Engineering
- **MSR 2020** – 17th International Conference on Mining Software Repositories
- **ICSA 2020** – IEEE International Conference on Software Architecture
- **SANER-LBI 2020** – 27th edition of the IEEE International Conference on Software Analysis, Evolution and Reengineering - Late Breaking Ideas Track
- **SANER-ERA 2020** – 27th edition of the IEEE International Conference on Software Analysis, Evolution and Reengineering - Early Research Achievements
- **SANER-Industry 2020** – 27th edition of the IEEE International Conference on Software Analysis, Evolution and Reengineering - Industry Track
- **ICSME 2019 (Short Papers)** – 35th IEEE International Conference on Software Maintenance and Evolution (Short Papers)
- **WEESR 2019** – 2nd Workshop on Empirical Experiences of Software Reuse
- **DLS 2019** – 15th Dynamic Languages Symposium
- **VISSOFT 2019** – 7th IEEE Working Conference on Software Visualization
- **ASSE 2019** – Argentine Symposium on Software Engineering
- **ICSME 2019** – 35th IEEE International Conference on Software Maintenance and Evolution
- **SESoS-WDES 2019** – Joint 7th ICSE International Workshop on Software Engineering for Systems-of-Systems and 13th Workshop on Distributed Software Development, Software Ecosystems and Systems-of-Systems
- **SEAA 2019** – Euromicro Conference on Software Engineering and Advanced Applications 2019 (Software and Big Data Analytics session)
- **TOOLS 50+1** – Technology of Object-Oriented Languages and Systems
- **MSR 2019** – 16th International Conference on Mining Software Repositories
- **OSS 2019** – 15th International Conference on Open Source Systems
- **SANER-ERA 2019** – 26th IEEE International Conference on Software Analysis, Evolution and Reengineering – Early Research Achievements Track
- **SANER-Industry 2019** – 26th IEEE International Conference on Software Analysis, Evolution and Reengineering – Industry track
- **ICSE-SRC 2019** – 41th International Conference on Software Engineering – Student Research Competition
- **WDES @ ECSE 2018** – 12th Workshop on Distributed Software Development, Software Ecosystems and Systems-of-Systems, collocated with the 12th European Conference on Software Architecture
- **VISSOFT 2018** – 6th IEEE Working Conference on Software Visualization
- **SATToSE 2018** – 11th Seminar on Advanced Techniques & Tools for Software Evolution (**Chair**)
- **IWST 2018** – International Workshop on Smalltalk Technologies
- **ICSME-Industry 2018** – 12th International Conference on Software Maintenance and Evolution - Industry track
- **SA-SEAA 2018** – 44th Euromicro Conference on Software Engineering and Advanced Applications

- **ICPC-ERA 2018** – 26th IEEE/ACM International Conference on Program Comprehension - Early Research Achievement
- **MAINT 2018** – 1st International Workshop on Mining and Analyzing Interaction Histories, co-located with the 25th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)
- **LTB 2018** – Workshop on Load Testing and Benchmarking Software Systems, co-located with the 9th ACM/SPEC International Conference on Performance Engineering (ICPE)
- **SANER-ERA 2018** – 25th IEEE International Conference on Software Analysis, Evolution, and Reengineering - Early Research Achievement
- **VEM 2017** – 5th Workshop on Software Visualization, Evolution and Maintenance
- **ICSME-Industry 2017** – 33rd IEEE International Conference on Software Maintenance and Evolution (ICSME 2017), Industry Track
- **WEA 2017** – 5th International Workshop on Software Ecosystem Architectures
- **IWST 2017** – International Workshop on Smalltalk Technologies
- **ICSME 2017 Artifacts** – 33rd International Conference on Software Maintenance and Evolution - Artifacts Track
- **SLISW / ASSE 2017** – Simposio Latinoamericano de Ingeniería de Software / Simposio Argentino de Ingeniería de Software
- **DLS 2017** – 13th Dynamic Languages Symposium
- **SATToSE 2017** – 10th Seminar on Advanced Techniques & Tools for Software Evolution
- **VISSOFT 2017** – 5th IEEE Working Conference on Software Visualization
- **OSS 2017** – 13th International Conference on Open Source Systems
- **SANER-ERA 2017** – 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering - Early Research Achievement
- **ICPC-ERA 2017** – 25th IEEE International Conference on Program Comprehension - Early Research Achievement
- **WEA 2016** – 4th International Workshop on Ecosystem Architectures
- **SATToSE 2016** – Seminar Series on Advanced Techniques & Tools for Software Evolution.
- **VISSOFT 2016** – IEEE Working Conference on Software Visualization
- **ICPC-Tool Demo 2016** – 24th IEEE International Conference on Program Comprehension – Tool demo
- **VISSOFT-AEC 2016** – IEEE Working Conference on Software Visualization – Artifact Evaluation Committee (**Chair**)
- **ICSME-Industry 2016** – International Conference on Software Maintenance and Evolution, Industry track
- **CIEL 2016** – 5ème Conférence en Ingénierie du Logiciel
- **VEM 2016** – 4th Workshop on Software Visualization, Evolution, and Maintenance (VEM) (**Chair**)
- **OOPS 2016** – 31th ACM Symposium on Applied Computing (SAC 2016), Object-Oriented Languages and Systems track
- **ACM SRC ICSE 2016** – ACM Student Research Competition, collocated with ICSE 2016
- **MODELSWARD 2016** – 4th International Conference on Model-Driven Engineering and Software Development
- **SCORE 2016** – Student Contest on Software Engineering, collocated with ICSE 2016
- **EOSESE 2015** – 2015 European Open Symposium on Empirical Software Engineering
- **VEM 2015** – Workshop on Software Visualization, Maintenance, and Evolution
- **CIEL 2015** – 4ème Conférence en Ingénierie du Logiciel
- **WEA 2015** – 3rd International Workshop on Ecosystem Architectures

- **IWSECO 2015** – 7th Workshop on Software Ecosystems
- **ASSE 2015** – Argentine Symposium on Software Engineering (ASSE 2015)
- **ICSME - ERA 2015** – The IEEE International Conference on Software Maintenance and Evolution (ICSME 2015) — The Early Research Achievements (ERA) Track
- **IEEE VISSOFT 2015** – 3rd International Working Conference on Software Visualization (Program co-chair) (**Chair**)
- **Demos 2015** – Demonstrations and Posters track at Modularity 2015
- **OOPS 2015** – 30th ACM Symposium on Applied Computing (SAC 2015), Object-Oriented Languages and Systems track
- **SANER 2015** – 22nd International Conference on Software Analysis, Evolution, and Reengineering (SANER 2015)
- **SANER-ERA 2015** – 22nd International Conference on Software Analysis, Evolution, and Reengineering, Early Research Achievements (SANER-ERA 2015)
- **VEM 2014** – Workshop on Software Visualization, Maintenance, and Evolution
- **IWST 2014** – International Workshop on Smalltalk Technologies
- **VISSOFT NIER 2014** – 2nd IEEE Working Conference on Software Visualization
- **CLEI 2014** – XI Conferencia Latinoamericana en Informática
- **CIEL 2014** – 3ème Conférence en Ingénierie du Logiciel
- **ENASE 2014** – 9th International Conference on Evaluation of Novel Software Approaches to Software Engineering
- **ICSOFT-PT 2014** – International Conference on Software Paradigm Trends
- **CSMR-WCRE ERA 2014** – Early Research Achievements at the joint meeting of the CSMR and WCRE conferences
- **OOPS 2014** – 29th ACM Symposium on Applied Computing, Object Oriented Programming Languages and Systems
- **MODELWARD 2014** – 2nd International Conference on Model-Driven Engineering and Software Development
- **ICSE SRC 2014** – Student Research Competition @ ICSE 2014
- **IWST 2013** – International Workshop on Smalltalk Technologies, collocated with ESUG 2013
- **LAFM 2013** – Latin American Workshop on Formal Methods
- **WASDeTT 2013** – 4th International Workshop on Academic Software Development Tools and Techniques
- **WCRE 2013** – 20th Working Conference on Reverse Engineering
- **ESEC/FSE 2013, AEC** – Artifact Evaluation Committee co-chair, 9th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (**Chair**)
- **CIEL 2013** – Conférence en Ingénierie du Logiciel
- **SC 2013** – International Conference on Software Composition
- **OOPS 2013** – Object Oriented Programming Languages and Systems - ACM SAC 2013
- **ECOOP 2013** – European Conference on Object-Oriented Programming
- **Smalltalks 2012** – 6th International Conference on Smalltalk Technologies
- **IWASE 2012** – International Workshop on Advanced Software Engineering
- **IWST 2012** – International Workshop on Smalltalk Technologies
- **CIEL 2012** – Conférence en Ingénierie du Logiciel
- **CibSE 2012** – XV Ibero-American Conference on Software Engineering, Doctoral Symposium
- **ICSOFT 2012** – 6th International Conference on Software and Data Technologies
- **PPPJ 2012** – 10th International Conference on the Principles and Practice of Programming in

Java

- **GPCE 2012** – Generative Programming and Component Engineering
- **WEWST 2012** – 7th Workshop on Enhanced Web Service Technologies
- **FREECO 2011** – 2nd workshop on “Free Composition”, collocated at SPLAH/Onward!!
- **Smalltalks 2011** – 5th Argentine Conference on Smalltalk – Research Track
- **IWASE 2011** – Workshop on Advanced Software Engineering
- **DSLRob 2011** – 2nd International Workshop on Domain-Specific Languages and models for RO-Botic systems
- **WEWST 2011** – 6th Workshop on Enhanced Web Service Technologies
- **RAM-SE 2011** – 8th Workshop on Reflection, AOP and Meta-Data for Software Evolution
- **IWST 2011** – International Workshop on Smalltalk Technologies
- **ICSOFT 2011** – 6th International Conference on Software and Data Technologies
- **TOOLS Europe 2011** – 49th International Conference on Objects, Models, Components and Patterns
- **SEFM 2011** – 9th IEEE International Conference on Software Engineering and Formal Methods
- **SAC 2011** – Programming Languages (PL) Track at the 26th ACM Symposium on Applied Computing
- **ICSM 2010 (demo track)** – 26th IEEE International Conference on Software Maintenance, tool demo track
- **WEWST 2010** – 5th Workshop on Enhanced Web Service Technologies
- **SCCC 2010** – XXIX Conferencia Internacional de la Sociedad Chilena de Ciencia de la Computacion
- **Smalltalks 2010** – 4th Argentine Conference on Smalltalk – Research Track
- **FAMOORSr 2010** – 4th Workshop on FAMIX and Moose in Reengineering
- **MajecSTIC 2010** – MANifestation des JEunes Chercheurs en Sciences et Technologies de l’Information et de la Communication
- **IROS’10** – 1st International Workshop on Domain-Specific Languages and models for ROBotic systems
- **ROOTS 2010** – 1st ECOOP’10 International Workshop on Real-time Object-Oriented Technologies
- **RAM-SE 2010** – 7th ECOOP’10 Workshop on Reflection, AOP and Meta-Data for Software Evolution
- **ICSOFT 2010** – 5th International Conference on Software and Data Technologies
- **CLEI 2010** – XXXVI Latin American Conference on Informatics
- **TOOLS 2010** – 48th International Conference on Objects, Models, Components and Patterns
- **PL-SAC 2010** – Programming Languages Track at the 25th ACM Symposium on Applied Computing
- **RAM-SE 2009** – 6th ECOOP’09 Workshop on Reflection, AOP and Meta-Data for Software Evolution
- **ICSOFT 2009** – 4th International Conference on Software and Data Technologies
- **Smalltalks 2008** – 2da Conferencia Argentina de Smalltalk
- **INTENSIVE 2009** – 1st International Conference on Intensive Applications and Services
- **TOOLS 2009** – 47th International Conference Objects, Models, Components, Patterns
- **ICSOFT 2008** – International Conference on Software and Data Technologies
- **Web Technologies Track at SAC 2008** – the 23rd Annual ACM Symposium on Applied Computing
- **SC 2008** – Software Composition Symposium SC 2008 (**Chair**)

- **ICSOFT 2007** – International Conference on Software and Data Technologies
- **SC 2007** – Software Composition Symposium SC 2007
- **EIWAS 2006** – 3rd European Workshop on Aspects in Software
- **NODe 2006** – Net. Object Days, Objects, Aspects, Service, the Web
- **MajecSTIC 2006** – Conference nationale consacree aux sciences et technologies de l'information et de la communication
- **ICSOFT 2006** – International Conference on Software and Data Technologies
- **SC 2006** – 5th Internation Symposium on Software Composition
- **IWSAC 2005** – 2nd International Workshop on Software Aspects of Context
- **CMD5 2005** – Components Models for Dependable Systems

Publications

To date, I have authored and co-authored 150 articles, pair reviewed, and published in international academic venues. All my publications are available online on my personal website, <http://bergel.eu>.

2020

1. **Toward Applying Fuzz Testing Techniques on the SUCHAI Nanosatellites Flight Software**, Tamara Guterriez, Alexandre Bergel, Carlos E. Gonzalez, Camilo J. Rojas, Marcos A. Diaz, 5th Biennial Congress of IEEE Argentina Section - Aeronautics and Space track. 2020.
2. **An Interdisciplinary Model for Graphical Representation: Two Case Studies**, Giuseppe Antonio Pierro, Stéphane Ducasse, Alexandre Bergel, 2nd International Workshop on Cognition: Interdisciplinary Foundations, Models and Applications. 2020. [URL](#)
3. **Reproducing Bugs in Video Games using Genetic Algorithms**, Tomás Ahumada, Alexandre Bergel, IEEE Games, Animation, Multimedia and Multiple Realities. 2020. [URL](#)
4. **Interactive Role Stereotype-Based Visualization To Comprehend Software Architecture**, Truong Ho-Quang, Alexandre Bergel, Arif Nurwidyanoro, Rodi Jolak, Michel Chaudron, 8th IEEE Working Conference on Software Visualization. 2020. [URL](#)
5. **TestEvoViz: Visual Introspection for Genetically-Based Test Coverage Evolution**, Andreina Cota Vidaure, Evelyn Cusi Lopez, Juan Pablo Sandoval Alcocer, Alexandre Bergel, 8th IEEE Working Conference on Software Visualization. 2020. [URL](#)
6. **Fuzzing to Estimate Gas Costs of Ethereum Contracts**, Daniel Soto, Alexandre Bergel, Alejandro Hevia, 36th IEEE International Conference on Software Maintenance and Evolution – New Ideas and Emerging Results. 2020. [URL](#)
7. **Suggesting Descriptive Method Names: An Exploratory Study of Two Machine Learning Approaches**, Oleksandr Zaitsev, Stéphane Ducasse, Alexandre Bergel, Mathieu Eveillard, 13th International Conference on the Quality of Information and Communications Technology. 2020. [URL](#)
8. **Assessing Textual Source Code Comparison: Split or Unified?**, Alejandra Cossio Chavalier, Juan Pablo Sandoval Alcocer, Alexandre Bergel, First International Workshop on New Interfaces for Programming. 2020. [URL](#)
9. **Improving the Success Rate of Applying the Extract Method Refactoring**, Juan Pablo Sandoval Alcocer, Alejandra Siles Antezana, Gustavo Santos, Alexandre Bergel, Science of Computer Programming. 2020. [URL](#) [URL](#)
10. **Evaluating a Visual Approach for Understanding JavaScript Source Code**, Martin Dias, Diego Orellana, Santiago Vidal, Leonel Merino, Alexandre Bergel, 28th IEEE/ACM International

Conference on Program Comprehension. 2020. [URL](#)

11. **Toward Agile Situated Visualization: An Exploratory User Study**, Leonel Merino, Boris Sotomayor-Gómez, Xingyao Yu, Ronie Salgado, Alexandre Bergel, Michael Sedlmair, Daniel Weiskopf, ACM CHI Conference on Human Factors in Computing Systems, Late-Breaking Work. 2020. [URL](#)
12. **Vision: Alleviating Android Developer Burden on Obfuscation**, Geoffrey Hecht, Cyprien Neverov, Alexandre Bergel, 7th IEEE/ACM International Conference on Mobile Software Engineering and Systems. 2020. [URL](#)
13. **Prioritizing versions for performance regression testing: The Pharo case**, Juan Pablo Sandoval Alcocer, Alexandre Bergel, Marco Tulio Valente, Science of Computer Programming. 2020. [URL](#) [URL](#)

2019

1. **Housing Prices: Testing Machine Learning Methods**, Isabelle Chardon, Francisco Javier Martínez Concha, Alexandre Bergel, 19 Congreso Chileno de Ingeniería de Transporte. 2019. [URL](#)
2. **Performance Evolution Matrix: Visualizing Performance Variations along Software Versions**, Juan Pablo Sandoval Alcocer, Fabian Beck, Alexandre Bergel, 7th IEEE Working Conference on Software Visualization. 2019. [URL](#) [URL](#)
3. **Enhancing Commit Graphs with Visual Runtime Clues**, Juan Pablo Sandoval Alcocer, Harold Camacho Jaimes, Diego Costa, Alexandre Bergel, Fabian Beck, 7th IEEE Working Conference on Software Visualization - NIER. 2019. [URL](#) [URL](#)
4. **An architecture-tracking approach to evaluate a modular and extensible flight software for CubeSat nanosatellites**, Carlos E. Gonzalez, Camilo J. Rojas, Alexandre Bergel, Marcos A. Diaz, IEEE Access. 2019. [URL](#) [URL](#)
5. **Live Programming and Software Evolution: Questions during a Programming Change Task**, Juraj Kubelka, Romain Robbes, Alexandre Bergel, 27th IEEE/ACM International Conference on Program Comprehension. 2019. [URL](#) [URL](#)
6. **Building an Expert Recommender Chatbot**, Jhonny Cerezo, Juraj Kubelka, Romain Robbes and Alexandre Bergel, 1st Workshop on Bots in Software Engineering (collocated with ICSE'19). 2019. [URL](#) [URL](#)
7. **PerfVis: Pervasive Visualization in Immersive Augmented Reality for Performance Awareness**, Leonel Merino, Mario Hess, Alexandre Bergel, Oscar Nierstrasz, Daniel Weiskopf, 10th ACM/SPEC International Conference on Performance Engineering (Work in progress). 2019. [URL](#) [URL](#)
8. **Live Programming in Practice: a Controlled Experiment on State Machines for Robotic Behaviors**, Miguel Campusano, Johan Fabry, Alexandre Bergel, Information and Software Technology. 2019. [URL](#) [URL](#)
9. **VizRob: Effective Visualizations to Debug Robotic Behaviors**, Miguel Campusano, Alexandre Bergel, 3rd IEEE International Conference on Robotic Computing. 2019. [URL](#) [URL](#)
10. **Continuation to the Rescue: Seamlessly Handling Battery Interruption in Drones**, Rodrigo Delgado, Alexandre Bergel, 3rd IEEE International Conference on Robotic Computing. 2019. [URL](#) [URL](#)

2018

1. **Visual Analytics Challenges in Analyzing Calling Context Trees**, Alexandre Bergel, Abhinav Bhatele, David Boehme, Patrick Gralka, Kevin Griffin, Marc-André Hermanns, Dusan Okanovic,

- Olga Pearce, Tom Vierjahn, Fifth International Workshop on Visual Performance Analysis (colocated with the International Conference on High Performance Computing, Networking, Storage and Analysis (SC'18)). 2018. [URL](#)
2. **Slimming JavaScript Applications: an Approach for Removing Unused Functions from JavaScript Libraries**, Hernán Ceferino Vázquez, Alexandre Bergel, Santiago Vidal, Andres Diaz Pace, Claudia Marcos, Information and Software Technology. 2018. [URL](#)
 3. **Experience in Bridging Keras for Python with Pharo**, Alejandro Infante, Alexandre Bergel, International Workshop on Smalltalk Technologies. 2018. [URL](#)
 4. **Deviation Testing: A Test Case Generation Technique for GraphQL APIs**, Daniela Meneses Vargas, Alison Fernandez Blanco, Andreina Cota Vidaurre, Juan Pablo Sandoval Alcocer, Milton Mamani Torres, Alexandre Bergel, Stéphane Ducasse, International Workshop on Smalltalk Technologies. 2018. [URL](#)
 5. **Effective Visualization of Object Allocation Sites**, Alison Fernandez Blanco, Juan Pablo Sandoval Alcocer, Alexandre Bergel, 6th IEEE Working Conference on Software Visualization. 2018. [URL](#)
 6. **Overcoming Issues of 3D Software Visualization through Immersive Augmented Reality**, Leonel Merino, Alexandre Bergel, Oscar Nierstrasz, 6th IEEE Working Conference on Software Visualization. 2018. [URL](#)
 7. **Imprecisions Diagnostic in Source Code Deltas**, Guillermo de la Torre, Romain Robbes, Alexandre Bergel, IEEE/ACM 15th International Conference on Mining Software Repositories. 2018. [URL](#)
 8. **An API and Visual Environment to use Neural Network To Reason About Source Code**, Alexandre Bergel, Paulin Melatagia, Serge Stinckwich, Programming Experience Workshop. 2018. [URL](#)
 9. **A Domain-Specific Language to Visualize Software Evolution**, Alison Fernandez Blanco, Alexandre Bergel, 118-130 Information and Software Technology vol:98. 2018. [URL](#) [URL](#)
 10. **Reducing resource consumption of expandable collections: The Pharo case**, Alexandre Bergel, Alejandro Infante, Sergio Maass, Juan Pablo Sandoval Alcocer, 34-56 Science of Computer Programming. 2018. [URL](#) [URL](#)
 11. **The Road to Live Programming: Insights From the Practice**, Juraj Kubelka, Romain Robbes, Alexandre Bergel, 40th International Conference on Software Engineering. 2018. [URL](#)

2017

1. **Pharo Git Thermite – A Visual Tool for Deciding to Weld a Pull Request**, Ronie Salgado, Alexandre Bergel, International Workshop on Smalltalk Technologies. 2017. [URL](#)
2. **Object Equivalence: Revisiting Object Equality Profiling (An Experience Report)**, Alejandro Infante, Alexandre Bergel, 13th Dynamic Languages Symposium. 2017. [URL](#)
3. **Accurate VM profiler for the Cog VM**, Sophie Kaleba, Clement Bera, Alexandre Bergel, Stéphane Ducasse, International Workshop on Smalltalk Technologies. 2017.
4. **Guest editorial of the special section on software visualization**, Alexandre Bergel, Fabian Beck, Information and Software Technology. 2017. [URL](#) [URL](#)
5. **Method Execution Reports: Generating Text and Visualization to Describe Program Behavior**, Fabian Beck, Hafiz Ammar Siddiqui, Alexandre Bergel, Daniel Weiskopf, 5th IEEE Working Conference on Software Visualization (VISSOFT '17). 2017. [URL](#)
6. **Identifying Classes in Legacy JavaScript Code**, Leonardo Humberto Silva, Marco Tulio, Alexandre Bergel, Nicolas Anquetil, Anne Etien, Journal of Software: Evolution and Process. 2017. [URL](#) [URL](#)

7. **Refactoring Legacy JavaScript Code to Use Classes: The Good, The Bad, and The Ugly**, Leonardo Humberto Silva, Marco Tulio Valente, Alexandre Bergel, 16th International Conference on Software Reuse (ICSR'17). 2017. [URL](#) [URL](#)
8. **Statically Identifying Class Dependencies in Legacy JavaScript Systems: First Results**, Leonardo Humberto Silva, Marco Tulio Valente, Alexandre Bergel, 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering - Early Research Achievements track (SANER-ERA'17). 2017. [URL](#)

2016

1. **Agile Visualization**, Alexandre Bergel, 235 Lulu.com. 2016. [URL](#)
2. **Does Live Programming Help Program Comprehension? - A user study with Live Robot Programming**, Miguel Campusano, Alexandre Bergel, Johan Fabry, Workshop on Evaluation and Usability of Programming Languages and Tools (PLATEAU' 16). 2016. [URL](#)
3. **Visually Exploring Object Mutation**, Rodrigo Schulz, Fabian Beck, Jhonny Wilder Cerezo Felipez, Alexandre Bergel, 4th IEEE Working Conference on Software Visualization - New Ideas and Emerging Results track (VISSOFT-NIER'16). 2016. [URL](#)
4. **MetaVis: Exploring Actionable Visualization**, Leonel Merino, Mohammad Ghafari, Oscar Nierstrasz, Alexandre Bergel, 4th IEEE Working Conference on Software Visualization - New Ideas and Emerging Results track (VISSOFT-NIER'16). 2016. [URL](#)
5. **Energy Code Profiling in Pharo**, Alexandre Bergel, International Workshop on Smalltalk Technologies (IWST'16). 2016. [URL](#)
6. **Dynamically Composing Collection Operations through Collection Promises**, Juan Pablo Sandoval Alcocer, Marcus Denker, Alexandre Bergel, Yasett Acurana, International Workshop on Smalltalk Technologies (IWST'16). 2016. [URL](#)
7. **Representing Component Authorship Using Randomly Generated Glyphs**, Alexandre Bergel, 9th Seminar Series on Advanced Techniques & Tools for Software Evolution (SATToSE'16). 2016.
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