

Dr. Alexandre Bergel

Profesor Asistente
PLEIAD Lab, Universidad de Chile, Santiago, Chile

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Dirección laboral:

Prof. Alexandre Bergel
Departamento de Ciencias de la Computacion (DCC)
Universidad de Chile
Blanco Encalada 2120, of. 409,
Santiago, Chile

Teléfono +56 913 123 81
Email: abergel@dcc.uchile.cl
Web: <http://www.bergel.eu>

Nacido en Niza (Francia), 23 de Marzo 1978
Francés, soltero.

Palabras claves: Ingeniería de software, Object-Oriented Programming, Language Design, Aspects-Oriented Programming, Reflection, Modules, Teaching OO, Mixins, Traits, Classboxes, Scheme, Smalltalk, Java, Ruby, C#, Embedded systems, Context-Oriented Programming.

Desde Mayo 2009 soy Investigador y Profesor Asistente en la Universidad de Chile.

1 Educación universitaria

Diciembre 2001 – Diciembre 2005 *Doctorado* en la Universidad de Berna (Suiza) en el Software Composition Group guiado por Prof. Oscar Nierstrasz y Prof. Stéphane Ducasse. Título de tesis: Classboxes – Controlling Visibility of Class Extensions. Miembros del jurado: Prof. Dr. Stéphane Ducasse, Prof. Dr. Gerhard Jäger, Prof. Dr. Oscar Nierstrasz, Prof. Dr. Roel Wuyts. Este trabajo fue galardonado con el premio [Ernst Denert Software Engineering 2006 prize](#).

2000 – 2001 *Diplomado de Estudios Avanzados (DEA) en Informática* (comparable con un Master, cinco años de estudio) en la Universidad de Nice-Sophia Antipolis. Tesis realizada en la University of Adelaide (South-Australia). Título: “Définition et compilation d’un langage à affectation unique vers un réseau de processus” supervisado por Prof. Denis Caromel y Prof. Andrew L. Wendelborn.

1999 – 2000 *Maîtrise d’informatique*. Universidad de Nice-Sophia Antipolis, Francia.

1998 – 1999 *Licence d’informatique*. Universidad de Nice-Sophia Antipolis, Francia.

1996 – 1999 *DEUG Mathématiques, Informatique, et Applications aux Sciences*. Universidad de Nice-Sophia Antipolis, Francia.

2 Experiencia laboral

Desde Mayo 2009 Profesor asistente de tiempo completo en la Universidad de Chile, Santiago, Chile, miembro del Laboratorio PLEIAD.

Octubre 2007 – Mayo 2009 Investigador de tiempo completo en INRIA Lille Nord Europe, Francia, miembro permanente del RMoD research group.

Abril 2007 – Octubre 2007 Investigador “postdoc” en el Software Architecture Group, liderado por Robert Hirschfeld, en el Hasso-Plattner-Institut (www.swa.hpi.uni-potsdam.de).

Enero 2006 – Marzo 2007. Investigador “postdoc” en el Distributed Systems Group, liderado por Dr. Siobhán Clarke y Prof. Vinny Cahill. También fui miembro de Lero, el Irish Software Engineering Research Centre (www.dsg.cs.tcd.ie, www.lero.ie).

Julio 2000 – Febrero 2001. *Mobile Telephony with BimSolutions*. Desarrollo de aplicaciones WAP para pequeños sistemas, por ejemplo celulares. (www.bimsolutions.com)

Julio 2000 – Febrero 2001. *Proyecto OASIS, INRIA Sophia Antipolis*. Participación en el desarrollo de un “remote debugger and controller” llamado IC2D para aplicaciones distribuidas.

Febrero 2000 – Julio 2000. *Proyecto SmartTools, INRIA Sophia Antipolis*. Desarrollo de un “graph layout algorithm”.

Julio 1999 – Octubre 1999. *Proyecto OASIS, INRIA Sophia Antipolis*. Participación en el desarrollo de C++//, una librería para construir aplicaciones en C++.

Julio 1998 – Junio 1999. *GSX Solution*. Desarrollo en Java para Lotus Notes servers (<http://www.gsx.net>).

3 Implicancias científicas

Comité de programa.

Comité de programa co-chair:

- *Software Composition 2009*
<http://www.2009.software-composition.org>
- *International Workshop on Smalltalk Technologies 2009*
<http://www.esug.org/Conferences/2009/InternationalWorkshop> ,<http://portal.acm.org>

Comité de programa:

- *CIEL 2012*: Conférence en Ingénierie du Logiciel – 18 - 23 de junio 2012, Rennes, /frenchOrEnglishOrSpanishFranceFranceFrancia.
<http://gpl2012.irisa.fr/>.
- *CibSE 2012*: XV Ibero-American Conference on Software Engineering, Doctoral Symposium – 24 - 27 de abril 2012, Buenos Aires, Argentina.
<http://cibse2012.unlam.edu.ar/home/>.
- *ICSOFT 2012*: 6th International Conference on Software and Data Technologies – 24 - 27 julio 2012, Roma, Italia.
<http://www.icsoft.org>.
- *PPPJ 2012*: 10th International Conference on the Principles and Practice of Programming in Java
- *GPCE 2012*: 11th International Conference on Generative Programming and Component Engineering
- *FREECO 2011*: 2nd Workshop on Free Composition, collocated with SPLASH/Onward!
- *Smalltalks 2011*: 5th Argentine Conference on Smalltalk – Research Track
- *SCCC 2011*: 30th International Conference of the Chilean Computer Science Society – 9-11 noviembre 2011, Curicó, Chile.
jcc2011.otalca.cl
- *DSLRob 2011*: 2nd International Workshop on Domain-Specific Languages and models for ROBotic systems – San Francisco, USA.
- *WEWST 2011*: 6th Workshop on Enhanced Web Service Technologies – 14 septiembre 2011, Lugano, Suiza.
www.inf.usi.ch/faculty/binder/wewst11/
- *RAM-SE 2011*: 8th Workshop on Reflection, AOP and Meta-Data for Software Evolution – 27 junio 2011, Zürich, Suiza.
www-users.cs.york.ac.uk/manuel/Events/RAM-SE11/RAM-SE11
- *SCLIT 2011*: Symposium on Computer Languages, Implementations, and Tools – 19-25 septiembre 2011, Halkidiki, Grecia.

- *ICSOFT 2011*: 6th International Conference on Software and Data Technologies – 18 - 21 julio 2011, Seville, España.
<http://www.icsoft.org>.
- *TOOLS Europe 2011*: 49th International Conference on Objects, Models, Components and Patterns – 27 junio 2011 - 01 julio 2011, Zurich, Suiza.
- *SEFM 2011*: 9th IEEE International Conference on Software Engineering and Formal Methods – 13-18 septiembre 2011, Montevideo, Uruguay.
- *SAC 2011*: Programming Languages (PL) Track at the 26th ACM Symposium on Applied Computing – 21-25 marzo 2011, Taichung, Taiwan.
<http://www.inf.usi.ch/faculty/binder/wewst10/>.
- *ICSM 2010*: 26th IEEE International Conference on Software Maintenance, Tool Demonstration Track– 12-18 septiembre 2010, Timisoara, Romania.
<http://icsm2010.upt.ro/calls/tool-demos>.
- *WEWST 2010*: 5th Workshop on Enhanced Web Service Technologies – 1 diciembre 2010, Ayia Napa, Cyprus.
<http://www.inf.usi.ch/faculty/binder/wewst10/>
- *SCCC 2010*: XXIX Conferencia Internacional de la Sociedad Chilena de Ciencia de la Computacion – 15-19 noviembre 2010, Antofagasta, Chile.
<http://jcc2010.infonor-chile.cl>
- *Smalltalks 2010*: 4th Argentine Conference on Smalltalk – Research Track – noviembre 2010, Buenos Aires, Argentina.
<http://www.fast.org.ar>
- *FAMOOSr 2010*: 4th Workshop on FAMIX and Moose in Reengineering – 17 septiembre 2010, Timisoara, Romania.
<http://www.moosetechnology.org/events/famoosr2010>.
- *MajecSTIC 2010*: MANifestation des JEunes Chercheurs en Sciences et Technologies de l'Information et de la Communication – octubre 2010, Bordeaux, France.
<http://majecstic2010.labri.fr/>.
- *DSLRob 2010*: 1st International Workshop on Domain-Specific Languages and models for ROBOTic systems (collocated with *IROS' 10*) – octubre 2010, Taipei, Taiwan.
<http://www.doesnotunderstand.org/wikka.php?wakka=DSLRob10>.
- *ROOTS 2010*: 1st ECOOP'2010 International Workshop on Real-time Object-Oriented Technologies – 22 junio 2010, Maribor, Slovenia.
http://www.cs.purdue.edu/roots10/ROOTs_2010.
- *RAM-SE 2010*: 7th ECOOP'2010 Workshop on Reflection, AOP and Meta-Data for Software Evolution – 21 junio 2010, Maribor, Slovenia.
<http://www-users.cs.york.ac.uk/manuel/Events/RAM-SE10>.

- *ICSOFT 2010*: 5th International Conference on Software and Data Technologies – 22-24 julio 2010, Athens, Grecia.
<http://www.icsoft.org>.
- *CLEI 2010*: XXXVI Latin American Conference on Informatics – 18-22 octubre 2010, Asunción, Paraguay.
www.clei2010.org.py.
- *TOOLS 2010*: 48th International Conference Objects, Models, Components, Patterns – 28 junio - 2 julio 2010, Malaga, España.
<http://malaga2010.lcc.uma.es>.
- *INTENSIVE 2010*: 2nd International Conference on Intensive Applications and Services. – 7 - 13 marzo 2010, Cancun, Mexico, under InfoSys 2010 umbrella.
<http://www.iaia.org/conferences2010/ComINTENSIVE10.html>.
- *PL-SAC 2010*: Programming Languages (PL) Track at the 25th ACM Symposium on Applied Computing – 22 - 26 marzo 2010, Sierre, Suiza.
<http://www.acm.org/conferences/sac/sac2010/>.
- *RAM-SE 2009*: 6th ECOOP'2009 Workshop on Reflection, AOP and Meta-Data for Software Evolution – 7 julio 2009, Genova, Italia.
<http://www-users.cs.york.ac.uk/~manuel/Events/RAM-SE09/>.
- *ICSOFT 2009*: 4th International Conference on Software and Data Technologies – 26-29 julio 2009, Sofia, Bulgaria.
<http://www.icsoft.org>.
- *Smalltalks 2009*: 2da Conferencia Argentina de Smalltalk. – 13 - 15 noviembre 2009, Buenos Aires, Argentina.
<http://neuquina.lifia.info.unlp.edu.ar:8001/Smalltalks-2008>.
- *INTENSIVE 2009*: 1st International Conference on Intensive Applications and Services. – 21 - 25 abril 2009, Valencia, España, under InfoSys 2009 umbrella.
<http://www.iaia.org/conferences2009/INTENSIVE09.html>.
- *TOOLS 2009*: 47th International Conference Objects, Models, Components, Patterns – Zürich, Suiza.
<http://tools.ethz.ch>.
- *ICSOFT 2008*: 3rd International Conference on Software and Data Technologies – 5 - 8 julio 2008, Porto, Portugal.
<http://www.icsoft.org>.
- *Web Technologies Track at SAC 2008*: the 23rd Annual ACM Symposium on Applied Computing (SAC'2008) – 16 - 20 marzo 2008, Fortaleza, Ceará, Brasil.
www.acm.org/conferences/sac/sac2008.
- *SC 2008*: 7th International Symposium on Software Composition – 29 - 30 marzo 2008, Budapest, Hungría.
www.2008.software-composition.org.

- *ICSOFT 2007*: 2nd International Conference on Software and Data Technologies – 22 - 25 julio 2007, Barcelona, España.
<http://www.icsoft.org>.
- *SC 2007*: Software Composition Symposium SC 2007 – Braga, Portugal, 24 marzo - 1 abril 2007.
<http://ssel.vub.ac.be/sc2007>.
- *EIWAS 2006*: 3rd European Workshop on Aspects in Software – Enschede, Países Bajos, 31 agosto - 1 septiembre 2006.
<http://janus.cs.utwente.nl:8000/twiki/bin/view/EIWAS2006/WebHome>.
- *NODe 2006*: Net. Object Days, Objects, Aspects, Services, the Web – Erfurt, Alemania, 18 - 21 septiembre 2006.
<http://www.netobjectdays.org>.
- *MajecSTIC 2006*: Conférence nationale consacrée aux sciences et technologies de l’information et de la communication.
<http://web.univ-ubs.fr/lester/www-lester/Evenements/Majecstic/index.php>.
- *ICSOFT 2006*: International Conference on Software and Data Technologies – 11 - 14 septiembre 2006, Setúbal, Portugal.
<http://www.icsoft.org/ICSOFT2006>.
- *SC 2006*: Software Composition – 25 - 26 marzo 2006, Viena, Austria.
<http://www.emn.fr/x-info/obasco/events/sc06>.
- *IWSAC 2005*: 2nd International Workshop on Software Aspects of Context – Santorini, Grecia, 14 julio 2005.
<http://diuf.unifr.ch/people/kouadri/iwsac05>.
- The Euromicro CBSE Track on Software Engineering and Advanced Applications – 30 agosto - 3 septiembre 2005. Porto, Portugal.
<http://www.idt.mdh.se/euromicro-2005>.

Revisor. Fui revisor en los periódicos:

- Science of Computer Programming (February 2011, SCICO-D-11-00037). Editor: Mark van den Brand, Kim Mens and Holger Kienle.
- Transactions on Aspect-Oriented Software Development (November 2010). Editor: Gary T. Leavens.
- Software: Practice and Experience (SPE-08-0086, SPE-10-0076, SPE-10-0166). Editor: Nigel Horspool.
- Software: Practice and Experience (SPE-11-0254). Guest editors: Alain Plantec and Loic Lagadec
- Member of the J.UCS board editor (Journal of Universal Computer Science) (D.1.5 and D.3.3 ACM classification)
(www.jucs.org/jucs_articles_by_author/Bergel_Alexandre/BusinessCard)

- ACM Reviewer (#7802) para Computing Reviews (<http://www.reviews.com>).
- Transactions on Software Engineering (TSE-0024-0107). Editor: Harold Ossher.
- Transactions on Software Engineering (TSESI-2008-03-0115). *Special Issue on Software Language Engineering*, Guest editors: Jean-Marie Favre, Dragan Gasečić, Ralf Lämmel, Andreas Winter.
- International Journal IEEE Software (SWSI-0231-1206), *Special issue on Rapid Application Development with Dynamically Typed Languages*. Guest editors: Laurence Tratt and Roel Wuyts. September/October '07.

Como revisor externo, he revisado artículos en las siguientes conferencias:

- *Conferencias internacionales* :
 - * 17th International European Conference on Parallel and Distributed Computing (Europar 2011)
 - * 15th European Conference on Software Maintenance and Reengineering (CSMR 2011)
 - * European Conference in Object-Oriented Programming (ECOOP 2010)
 - * 18th European Symposium on Programming (ESOP 2009)
 - * International Conference on Program Comprehension (ICPC 2008)
 - * 11th European Conference on Software Maintenance and Reengineering (CSMR 2007, 2008)
<http://doi.ieeecomputersociety.org/10.1109/CSMR.2007.18>
 - * Working Conference on Reverse Engineering (WCRE 2006)
 - * European Conference in Object-Oriented Programming (ECOOP 2004, 2005, 2006, 2007)
 - * Object-Oriented Programming Systems, Languages and Applications (OOPSLA 2002)
 - * UML (2004, 2005)
 - * MODELS (2006, 2007)
 - * European Smalltalk User Group Research Track (ESUG 2003, 2004)
 - * International Conference on Software Maintenance (ICSM 2005, 2008)
- *Conferencias nacionales*:
 - * Langages et Modèle à Objets (LMO 2003, 2004, 2005, 2006, 2008, 2009)
 - * Net.ObjectDays (NODE 2005)

Revisor de proyecto.

- Becas Chile – *Cs. Computación e Informática*
- Swiss National Science Foundation (SNSF) <http://www.snf.ch>, 2010
- Swiss National Science Foundation (SNSF) <http://www.snf.ch>, 2009

Escuela de verano.

- Curso *Object-oriented programming with Smalltalk y Modularity beyond inheritance* (pleiad.dcc.uchile.cl/pl2008). Diapositivas <http://bergel.eu/presentations.html>

Organización y participación.

- 6th Workshop on Dynamic Languages and Applications, en conjunto con ECOOP 2012. scg.unibe.ch/wiki/events/dy Junio 2011, en Beijing, China.
- 5th Workshop on Dynamic Languages and Applications, en conjunto con TOOLS 2011. scg.unibe.ch/wiki/events/dy Julio 1, 2011, en Zurich, Suiza.
- 4th Workshop on Dynamic Languages and Applications, en conjunto con TOOLS 2010. scg.unibe.ch/wiki/events/dy Junio 28, 2010, en Malaga, España.
- 2nd International Workshop on Traits: <http://rmod.lille.inria.fr/pier/TRAIT+2009>
- 47th Tools Europe 2009, co-workshop chair: tools.ethz.ch/committees.html
- 46th Tools Europe 2008, co-workshop chair: tools.ethz.ch/tools2008/committees.html
- 3rd Workshop on Dynamic Languages and Applications, en conjunto con ECOOP 2007. <http://dyla2007.unibe.ch>. Julio 31, 2007, en Berlin, Alemania.
- Miembro de *Trinity Research Staff Association* (TRSA, www.tcdlife.ie/trsa), 2006.
- Miembro de MOOSE Association <http://moose.unibe.ch/association>
- Tres talleres sobre el lenguaje Smalltalk en la Universidad de Berna (Marzo 16, 2002, Febrero 25, 2003, y Marzo 12, 2005). Cada una con 20 personas aprox.
- *LMO 2005* en la Universidad de Berna. Responsable del sitio web y lista de difusión.

Invitado a dar charla.

- *Jornadas Chilenas de Computación 2009* (<http://jcc2009.usach.cl/>) Título: Restrospective on Traits
- *Konference Objekty 2006* Praga. Noviembre 23, 2006. Conferencia local de lenguaje y modelos de objeto. Título: *Controlling the Scope of Change in Java with Classboxes*.

Laboratorios visitados y charlas. Se pueden ver mis presentaciones en www.slideshare.net/bergel

- *University of Nice Sophia-Antipolis (France)*. 19 junio 2010 - 4 julio 2010. Contacto : Prof. Mireille Blay-Fornarino.
- *RMoD – INRIA Lille Nord Europe (France)*. 11 - 18 junio 2010. Contacto : Dr. Stéphane Ducasse.
- *University of Lugano (Switzerland)*. 7 - 11 junio 2010. Contacto : Prof. Walter Binder.

- *SPIN Chile* - Mejore la Calidad de su Software usando Mapas de Software. 2 junio 2010. Contacto : www.spin.cl.
- *University of La Plata (Argentina)*. 17 - 23 mayo 2010. Contacto : Gabriela Arévalo.
- *Universidad Mayor (Chile)* - Reflexion on code quality. 7 mayo 2010. Contacto : Alejandra Acuña.
- *University of Nice Sophia-Antipolis (France)* - Assessing code quality with Moose. 18 diciembre 2009. Contacto : Mireille Blay-Fornarino, Philippe Salvan.
- *SPIN Chile* - Evaluación de la evolución y Calidad del Software con Moose. 9 septiembre 2009. Contacto : www.spin.cl.
- *University of York, England*. 24 octubre 2009. Contacto : Dr. Manuel Oriol.
- *Club Qualimétrie (Paris, France)*. 23 septiembre 2009. Contacto : clubqualimetrie.fr.
- *École des Mines de Douai*. 23 junio 2009. Contacto : Dr. Noury Bouraqadi.
- *Département d'Informatique en Recherche Opérationnelle (DIRO), Université de Montréal (Canada)*. 25 noviembre 2007. Contacto : Prof. Houari Sahraoui & Prof. Yann-Gaël Guéhéneuc.
- *INRIA, Sophia-Antipolis (France)*. 9 julio 2007. Contacto : Manuel Serrano.
- *University of Cottbus (Brandenburgische Technische Universität Cottbus), Branderburg (Germany)*. 15 junio 2007. Contacto : Prof. Claus Lewerentz.
- *King's College, London (England)*. 30 abril 2007. Contacto : Dr. Laurence Tratt.
- *INRIA, Bordeaux (France)*. 26 marzo 2007. Contacto : Prof. Charles Consel.
- *Vrije Universiteit Brussel (Belgium)*. 23 febrero 2007. Contacto : Prof. Dr. Wolfgang De Meuter.
- *INRIA, ADAM project, Lille (France)*. 22 febrero 2007. Contacto : Prof. Laurence Duchien.
- *INRIA, Obasco project, Nantes (France)*. 19 enero 2007. Contacto : Prof. Pierre Cointe.
- *University of Bonn (Germany)*. 8 enero 2007. Contacto : Dr. Günter Kniesel.
- *Fakulta elektrotechnická, České vysoké učení technické v Praze, (University of Prague), (Czech Republic)*. 21-23 noviembre 2006. Contacto : Juraj Kubelka.
- *University of Limerick (Ireland)*. 3 noviembre 2007. Contacto : Prof. Dr. Kevin Ryan.
- *Universita della Svizzera Italiana (University of Lugano), (Switzerland)*. 21 junio 2006. Contacto : Prof. Dr. Michele Lanza, Romain Robbes.
- *Eidgenössische Technische Hochschule Zürich (ETH, Swiss Federal Institutes of Technology Zurich, Switzerland)*. 20 junio 2006. Contacto : Prof. Dr. Bertrand Meyer, Dr. Ilinca Ciupa.
- *National University of Ireland – NUI in Galway (Ireland)*. 11 abril 2006. Contacto : Dr. Michael McGettrick.

- *University College Dublin – UCD in Dublin (Ireland)*. 24 febrero 2006. Contacto : Dr. Aaron John Quigley.
- *Technische Universität Dresden (Germany)*. 15 diciembre 2005. Contacto : Prof. Dr. Uwe Aßman.
- *University of Technology in Darmstadt (Germany)*. 15 noviembre 2005. Contacto : Prof. Dr. Klaus Ostermann, Prof. Dr. Mira Mezini.
- *Trinity College in Dublin (Ireland)*. 9 noviembre 2005. Contacto : Dr. Siobhán Clarke.
- *Ecole Polytechnique Fédérale de Lausanne (Switzerland)*. 3 noviembre 2005. Contacto : Prof. Dr. Martin Odersky.
- *Univeristy of Karlsruhe (Germany)*. 28 octubre 2005. Contacto : Prof. Dr. Walter F. Tichy.
- *University of Fribourg (Switzerland)*. 4 octubre 2005. Contacto : Prof. Dr. Jacques Pasquier.
- *University of Geneva (Switzerland)*. 30 septiembre 2005. Contacto : Dr. Giovanna Di Marzo.
- *Open University (United Kingdom)*. 19 septiembre 2005. Contacto : Prof. Dr. Bashar Nu-seibeh.
- *Rencontres Mondiales pour le Logiciel Libre (RMLL)*. 8 julio 2005. Título: Introduction to Smalltalk. Theme: High-level languages.
- *Vrije Universiteit Brussel (Belgium)*. 22 junio 2005. Contacto : Prof. Dr. Theo D’Hondt.
- *University of Antwerp (Belgium)*. 16 junio 2005. Contacto : Prof. Dr. Serge Demeyer.
- *Université Libre de Bruxelles (Belgium)*. 13-24 junio 2005. Contacto : Prof. Dr. Roel Wuyts. Objetivo de la visita: Trait-based object-oriented programming language, Stratos.
- *Wydział Matematyki, Informatyki i Mechaniki (Warsaw, Poland)*. 18 enero 2005. Contacto : Dr. Jacek Chrzaszcz.
- *University of Bonn (Germany)*. 9 diciembre 2004. Contacto : Dr. Günter Kniesel. Clase: Dynamic AOP with Dynamic Classboxes and Friends.
www.iam.unibe.ch/~bergel/download/DynamicAOPBonn.pdf
- *Université du Québec à Montreal (UQÀM) (Canada)*. 22 noviembre 2004. Contacto : Prof. Hafedh Mili.
- *Département d’Informatique en Recherche Opérationnelle (DIRO), Université de Montréal (Canada)*. 25 noviembre 2004. Contacto : Prof. Houari Sahraoui.
- *Department of computer science, Vrije Universiteit, Amsterdam*. 24 junio 2004. Contacto : Dr. Fabrice Huet.
- *National University of Singapore (NUS)*. 3 junio 2004. Contacto : Prof. Stanislaw Jarzabek.
- *I3S (Informatique Signaux et Systèmes de Sophia Antipolis), Rainbow Project*. 9 abril 2004. Contacto : Dr. Mireille Blay.

- *Polish-Japanese Institute of Information Technology (Warsaw, Poland)*. 14 enero 2003. Contacto : Prof. Kazimiers Subieta.
- *Brno University of Technology (Czech Republic)*. 4 junio 2003. Contacto : Vladimir Janousek.
- *University of Targoviste (Romania)*. abril 2003 April 2003. Contacto : Luminitia Duta.
- *University of Adelaide (South-Australia)*. marzo - octubre 2001. Contacto : Dr. Andrew L. Wendelborn.

Participación en el seminario Dagstuhl número 06181 titulado *Latently-Typed Languages*. Mayo 2006.

Premios.

- Premio international Ernst Denert Software Engineering 2006 (www.denert-stiftung.de). Recibido el 4 octubre 2006 de la fundación Ernst Denert en la conferencia GI (Gesellschaft für Informatik E.V. www.gi-ev.de)
- Best paper award por *Classboxes : A Minimal Module Model Supporting Local Rebinding*, a la conferencia JMLC (Join Modular Languages Conference), 2003, Bled (Slovenia).

Proyectos de investigación.

- *ECOS-CONICYT ASPIRE: Assess, Visualize and Reengineer Software Engineering processes*. Principales Investigadores: Alexandre Bergel and Mireille Blay-Fornarino. 2011 - 2013.
- *U-INICIA* de la Universidad de Chile por una duración de 2 años. Cantidad de 10 millones de pesos chileno (~ 15 000 euros).
- *Associated team* con el grupo de investigación RMoD a INRIA Lille Nord Europe, 3 años (15,000 euros para el primer año) <http://pleiad.dcc.uchile.cl/research/plomo>
- Soy el mentor de un proyecto Google Summer of Code 2010. Título : “Visualization of profiling information in Pharo and Squeak”. 4000 USD
- STICAmSud - *CoReA: Comprehension and Remodularization of Applications based on Aspects, Classboxes and Traits*.

Coordinador internacional: Alexandre Bergel, *Coordinadores nacionales:* Gabriela Beatriz Arévalo (Universidad Nacional de La Plata - Argentina); Johan Fabry (Universidad de Chile - Chile); Stéphane Ducasse (INRIA Lille Nord Europe). Apoyo público: 30 744 euros. Inicio-fine: marzo 2009-marzo 2011.

www.sticamsud.org/Proyectos/ProyectosAprobados

- SQUALE - Software QUALity Enhancement. Participantes: Air France, PSA, Bouygues Télécom, INRIA, Université de Saint-Denis. Costo total: 2.833.000 euros, Apoyo público: 1.240.000 euros.
- Investigador invitado en el DCC - Universidad de Chile, proyecto FONDECYT 11060493 - Modularization and Adaptation of Complex and Dynamic Software Systems. Con un apoyo de 2800 euros.

4 Consulting

La mayoría de mi resultados de mi investigación es directamente aplicable al mundo industrial. He realizado varios estudio de casos que involucran pequeñas y grandes empresas:

- *Lam Research*, USA, octubre- diciembre, 2011.
- *Inmotion*, Santiago (Chile), 13 octubre 2011. Contacto: Andres Model and Rocco Abiuso
- *Caesar System*, Buenos Aires (Argentina), 20 mayo 2010. Contacto: Leandro Caniglia,
- *America XXI*, Santiago (Chile), 6 octubre 2009. Contacto: Sebastián Pastine Sepúlveda, www.americaxxi.cl
- *NIC Chile*, Santiago (Chile), 15 septiembre 2009. Contacto: Jose Urzua, www.nic.cl
- *Synopsys*, Santiago (Chile), 11 septiembre 2009. Contacto: Victor Grimblatt.
<http://www.synopsys.cl>
- *Cast Software*, Meudon (Paris, France), 21 enero 2009. Contacto: Razak Ellafi.
<http://www.castsoftware.com>
- *Software Improvement Group B. V.*, Amsterdam (Países Bajos), 28 noviembre 2009. Contacto: Jose Pedro Correia y Joost Visser, <http://www.sig.nl>
- *Deisk*, Villeneuve Saint Georges (Francia), 8 octubre 2008. Contacto: Jean-Hervé Laveau,
<http://www.deisk.com>

5 Publicaciones principales

Se pueden descargar todas mis publicaciones desde mi página web. Todos los artículos fueron revisados por evaluadores (www.bergel.eu/publications.html).

Para hacer las agencias de investigación feliz, las conferencias que son clasificadas como A son diseñadas con *. Las listas ofiales de estas clasificación son disponibles en http://core.edu.au/cms/images/downloads/journals/08sortrankalpha-ERA2010_journal_title_list.pdf y http://core.edu.au/cms/images/downloads/conference/08sort%20acronymERA2010_conference_list.pdf.

Artículos en periódicos internacionales

- [1] Alexandre Bergel, Felipe Banados, Romain Robbes, David Roethlisberger, Spy: A Flexible Code Profiling Framework, in *Computer Languages, Systems and Structures*, Elsevier. Volume 38 Issue 1, April 2012
- [2] * Alexandre Bergel, Felipe Bañados, Romain Robbes, Walter Binder, *Execution profiling blueprints*, in *Software: Practices and Experience*, Elsevier. Accepted in aug 2011
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- [9] Alexandre Bergel and Stéphane Ducasse, *Scoped and Dynamic Aspects with Classboxes*, In *RSTI – L’Objet (programmation par aspects)*, Volume 11, Number 3, pp. 53–68, 2005
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- [11] * Jorge Ressia, Alexandre Bergel, and Oscar Nierstrasz, *Object-Centric Debugging*. In *Proceedings of the 34th International Conference on Software Engineering (ICSE 2012)*, June 2012, ACM Press, to appear.
- [12] María Cecilia Bastarrica, Julio A. Hurtado and Alexandre Bergel, *Toward Lean Development in Formally Specified Software Processes*. In *Proceedings of the 18th European System & Software Process Improvement and Innovation Conference (EuroSPI’11)*, June 2011.
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- [26] * Stéphane Ducasse, Roel Wuts, Alexandre Bergel, and Oscar Nierstrasz, *User-Changeable Visibility: Resolving Unanticipated Name Clashes in Traits*, accepted to *OOPSLA 2007*. New York, NY, USA, ACM Press, 2007, Page 171–190.
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- [30] Éric Tanter, Kris Gybels, Marcus Denker, and Alexandre Bergel, *Context-Aware Aspects*, In *Proceedings of the 5th International Symposium on Software Composition (SC 2006)*, Vienna, Austria, March, pp. 227-249, Springer-Verlag, LNCS, 2006
- [31] * Alexandre Bergel, Stéphane Ducasse, and Oscar Nierstrasz, *Classbox/J: Controlling the Scope of Change in Java*, In *Proceedings of Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA'05)*, New York, NY, USA, ACM Press, pp. 177-189, 2005, acceptance rate: 16%
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- [34] Françoise Baude, Alexandre Bergel, Denis Caromel, Fabrice Huet, Olivier Nano, and Julien Vayssière, *IC2D: Interactive Control and Debugging of Distribution*, In *Proceedings of the Third International Conference, LSSC 2001*, Ed. S. Margenov, J. Wasiewski, and P. Yalamov, Sozopol, Bulgaria, June, LNCS, Volume 2179, Springer-Verlag, pp. 193-200, 2001

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- [36] Julio A. Hurtado, María Cecilia Bastarrica, Alexandre Bergel, *Analyzing the Scrum Process Model with AVISPA*, In *Proceedings of XXIX International Conference of the SCCC*, Antofagasta, Chile, 2010.
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- [41] Alexandre Bergel, *Controlling the Visibility of Changes in Java with Classboxes*, In *Proceedings of Objekty Conference 2006* Prague, Czech Republic, November pp. 47-49, 2006. Short paper, invited speaker.

Artículos invitados

- [42] Oscar Nierstrasz, Alexandre Bergel, Marcus Denker, Stéphane Ducasse, Markus Gaelli, and Roel Wuyts, *On the Revival of Dynamic Languages*, In *Proceedings of Software Composition 2005*, Ed. Thomas Gschwind and Uwe Aßmann, Volume 3628, LNCS 3628, pp. 1-13, 2005, Invited paper

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- [44] Alexandre Bergel, Johan Fabry, *Proceedings of the 8th International Conference on Software Composition*, July 2-3, 2008, LNCS 5634, Springer Verlag, ISBN: 978-3-642-02654-6.
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Artículos de workshop

- [46] Stephane Ducasse, Manuel Oriol, Alexandre Bergel, *Challenges to support automated random testing for dynamically typed languages*, In *Proceedings of the 3rd International Workshop on Smalltalk Technologies (IWST'11)*, Collocated with ESUG, June 2011
- [47] Santiago Vidal, Claudia Marcos, Alexandre Bergel, Gabriela Arevalo, *Memoization Aspects: a Case Study*, In *Proceedings of the 3rd International Workshop on Smalltalk Technologies (IWST'11)*, Collocated with ESUG, June 2011, PDF
- [48] Ricardo Jacas, Alexandre Bergel, *Klotz: An Agile 3D Visualization Engine*, In *Proceedings of the 3rd International Workshop on Smalltalk Technologies (IWST'11)*, Collocated with ESUG, June 2011
- [49] Vanessa Pena Araya, Alexandre Bergel, *Test Coverage With Hapao*, In *Proceedings of the 5th Workshop on Dynamic Languages and Applications (Dyla'11)*, Collocated with TOOLS EUROPE 2011, June 2011
- [50] Alexandre Bergel, Mariano Abel Coca, Gabriela Arevalo, Dale Henrichs, Jannik Laval, *Memory Profiling Blueprint*, Presented at *4th Smalltalk Conference (Smalltalks'10)*, November, 2010

- [51] Alexandre Bergel, Lorenzo Bettini, *Generics and Reverse Generics for Dynamically Typed Languages*, Presented at the *Smalltalk Conference (Smalltalks'10)*, November, 2010
- [52] Alexandre Bergel, Felipe Bañados, Romain Robbes, David Roethlisberger, *SPY: A Flexible Code Profiling Framework*, Presented at the *4th Smalltalk Conference (Smalltalks'10)*, November, 2010
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- [55] Alexandre Bergel, Stéphane Ducasse, Jannik Laval, Romain Peirs, *Enhanced Dependency Structure Matrix for Moose*, In *Proceedings of the 2nd FAMOOSr Workshop*, October, 2008,
- [56] Jannik Laval, Alexandre Bergel, Stéphane Ducasse, *Assessing the Quality of your Software with MoQam*, In *Proceedings of the 2nd FAMOOSr Workshop*, October, 2008,
- [57] Alexandre Bergel, *Importing Java Code into FAMIX*, In *Proceedings of the 2nd FAMOOSr Workshop*, October, 2008,
- [58] Alexandre Bergel, Claus Lewerentz, Liam O'Brien, *Classboxes: Supporting Unanticipated Variation Points in the Source Code*, In *Proceedings of the 2nd Workshop on Aspect-Oriented Product Line Engineering (AOPLE)*, October, 2007
- [59] Alexandre Bergel, *FacetS: First Class Entities for an Open Dynamic AOP Language*, In *Proceedings of the Open and Dynamic Aspect Languages Workshop*, March, 2006
- [60] Alexandre Bergel, Stéphane Ducasse, and Roel Wuyts, *The Classbox Module System*, In *Proceedings of the ECOOP '03 Workshop on Object-oriented Language Engineering for the Post-Java Era*, July, 2003
- [61] Alexandre Bergel, and Markus Denker, *Prototyping Languages, Related Constructs and Tools with Squeak*, In *Proceedings of the ECOOP '06 Workshop on Revival of Dynamic Languages*, July, 2006

Doctorado

- [62] Alexandre Bergel, *Classboxes — Controlling Visibility of Class Extensions*, Ph.D. Thesis, University of Berne, 2005, ISBN-13: 978-3639165180, ISBN-10: 3639165187, Publisher: VDM Verlag

Otras publicaciones

- [63] Éric Tanter, Kris Gybels, Marcus Denker, and Alexandre Bergel, *Context-aware aspects*, University of Chile, Number TR/DCC-2005-12, 2005

- [64] Alexandre Bergel, Stéphane Ducasse, Oscar Nierstrasz, and Roel Wuyts, *Classboxes: Controlling Visibility of Class Extensions*, Institut für Informatik, Number IAM-04-003, June, 2004
- [65] Stéphane Ducasse, Alexandre Bergel, François Schnell, Noury Bouraqadi, and Serge Stinckwich, *Des idées puissantes dans la classe – Utilisation de Squeak pour l'amélioration de l'apprentissage des mathématiques et des sciences (traduction de Powerful Ideas in the Classroom)*
- [66] Alexandre Bergel, Stéphane Ducasse, Colin Putney, and Roel Wuyts, *The Omnibrowser Reference*, 2007
- [67] Alexandre Bergel, *Beauty and the Beast: Translating Smalltalk to Java*, 2008, Unpublished

6 Software

Soy el autor de los siguientes softwares (estadística del Septiembre 7, 2010):

título	resumen	tamaño	# download
Mondrian	Visualization engine for reverse engineering purpose (I authored the port from Visualworks to Pharo)	18205 LOC	175 874
Hapao	Test code coverage for Pharo	> 700 LOC	3,674
CAnalyzer	C importer for reverse engineering purpose	> 1000 LOC	4569
Athena Smalltalk	Smalltalk virtual machine written in Java	> 1353 LOC	2420
SmalltalkLite	Extensible smalltalk-like language	2552 LOC	-
SmallScheme	Scheme interpreter written in Smalltalk for teaching purpose	1314 LOC	533
Flowtalk	Smalltalk dialect for wireless sensor networks	> 3000 LOC	-
FacetS	Aspects for dynamic programming language	-	218
Classbox/J	Classbox compiler for Java	-	-

Cada software tiene su página web, accesible desde www.bergel.eu/software.html

Páginas web:

- Mondrian: www.squeaksource.com/Mondrian.html
- Hapao: hapao.dcc.uchile.cl
- Athena: www.squeaksource.com/Athena.html
- SmallScheme: www.squeaksource.com/Scheme.html
- FacetS: www.squeaksource.com/FacetS.html

- Classbox/J: www.iam.unibe.ch/scg/Research/Classboxes

Soy un miembro activo de Pharo, un nuevo lenguaje de programación:
www.pharo-project.org (> 85719 download according to the INRIA gforge
(<https://gforge.inria.fr/top/toplist.php?type=downloads>))

7 Clases

En 2009 he recibido el título de Profesor Asistente en la Universidad de Chile.

7.1 Clases desde 2009

Cada curso tiene 30 clases de 1,5 horas, dos veces a la semana. Una *encuesta* es una evaluación de los alumnos. 7 es el maximum.

- agosto-noviembre2010 – CC68S - Software Evolution and Quality / Seminario Calidad y Evolución de Software. Encuesta: 6.0
- agosto-noviembre2010 – CC51A - Software Engineering / Seminario Calidad y Evolución de Software. Encuesta: 5.9
- marzo-julio2010 – CC3002 - Programming with Java / Seminario Calidad y Evolución de Software. Encuesta: 5.7
- marzo-julio2010 – CC51A - Software Engineering / Seminario Calidad y Evolución de Software. Encuesta: 6.1
- agosto-noviembre2009 – CC68S - Software Evolution and Quality / Seminario Calidad y Evolución de Software. Encuesta: 6.7

7.2 Profesor invitado

- 4 clases de calidad de software para la empresa MAS - Telefonica (octubre- diciembre2010)
- Experiencias de Investigacion en el DCC, University of Chile, Chile. Título : *The Good, the Bad and the Ugly: Personal Experience in Research*. Contact: Claudio Gutierrez. 14 octubre 2009
- Université de Nice, Polytech' Nice-Sophia, France. Título : *Assessing code quality with Moose*. Contact: Mireille Blay-Fornarino, Philippe Salvan. 18 diciembre 2009

7.3 Revision de memoria

- Magister con with Sergio F. Ochoa. Título : *Infraestructura de Trabajo Colaborativo Movil para Inspeccion Tecnica de Obras*
- Professor co-guia de Roberto Riquelme Torres with Prof. - Agustín Villena. Título : *Una Herramienta Flexible para Implementación de Tableros Kanban Virtuales*
- Ph.D - Valeria Paz Herskovic Maida, profesor guía: José A. Pino Urtubia, Sergio F. Ochoa Delorenzi - 2010 Título : *Evaluation of mobile shared workspaces to improve their support for collaboration*

- Engineering - Luis Avello Huala, profesor guía: Luis Guerrero - 30 diciembre 2009 - Título :*Modelo de Comunicación Punto a Punto para Aplicaciones Colaborativas en Dispositivos Móviles*

7.4 Clases antes de 2009

Nota: Lab significa que fue un trabajo de práctica. SS significa primer semestre y WS segundo semestre. “Nivel” significar el nivel de los alumnos.

Nomenclatura:

UQAM significa Université du Québec à Montréal (Canada).

UA significa University of Adelaide (Australia).

UNSA significa Université de Nice-Sophia Antipolis (France).

Resp. significa responsabilidad.

Clases realizadas y trabajos prácticos.

Año	Universidad	Nombre curso	Horas	Alum.	Resp.	Nivel
Nov. 2008	Summer School, Punta arenas (Chile)	Object-Oriented Programming with Smalltalk, Modularity Beyond Classes(web)	2	40	Curso	master
Jan. 2007	University of Bonn (Germany)	Controlling the Scope of Change in Java(web)	2	30	Curso	master
Nov. 2006	University of Prague (Czech R.)	Web Development with the Seaside Framework	6,5	100	Curso+ Lab	master
Nov. 2006	University of Anancy (France)	Functional Language Interpretation in Smalltalk	2	25	Curso	master
Dec. 2004	University of Bonn (Germany)	Dynamic AOP with Dynamic Classboxes and Friends(web)	2	30	Curso	master
Nov. 2004	UQAM (Canada)	Modularity in Programming Languages	1.5	20	Curso	master
Apr. 2003	University of Tago-viste (Romania)	Smalltalk	15	40	Curso + Lab	bachelor
Sep. 2001	UA (Australia)	Functional Interpreter in an Object-Oriented Environment	2	20	curso	master
Feb. 2001	UNSA (France)	Outils pour projet (CVS, SVN, Makefile)	8	70	Curso + Lab	bachelor

7.5 Asistente

A cargo de las actividades prácticas y de algunos cursos.

Nomenclatura:

SD significa Prof. Stéphane Ducasse. ON significa Prof. Oscar Nierstrasz. RH significa Robert Hirschfeld.

BE significa University of Bern. NE significa Université de Neuchâtel. PO significa University of Potsdam.

SS significa Primer semestre y WS significa Segundo semestre.

Año	Universidad	Profesor	Curso	Horas	Alumnos	Nivel
SS 07	PO	RH	Software Architecture	8	50	bachelor
SS 05	BE	SD	Advanced Design Labs	40	16	master
WS 04/05	BE	SD	Smalltalk	30	20	master
SS 04	BE	SD	Scheme	30	20	master
WS 03/04	BE	SD	Interpreting Object-Oriented Models	30	20	master
SS 03	BE	SD	Advanced Object-Oriented Design With Smalltalk	40	20	master
SS 02	NE	SD	Programmation objet	40	5	2nd Year
SS 02	BE	ON	Object-Oriented Programming with Java	30	90	1st Year

- Interpreting Object-Oriented Models: Presentación de varios modelos objetos, incluyendo lenguajes a prototipos, mixins y clases.

8 Supervisión

Verano 2011 Trabajo dirigido de Vanessa Peña en el semestre Verano 2011 en la Universidad de Chile.

Título: Test Blueprint. Vanessa participated at the ACM Student Research Competition organized at ICSE'11. She arrived second* with Hapao†. In addition, she won two scholarships: ACM Women and Sigsoft.

Invierno 2010 Trabajo dirigido de Felipe Bañados Schwerter en el semestre Invierno 2010 en la Universidad de Chile.

Título: Visualizing code profiling difference

Verano 2006 Supervisión del proyecto de Thomas Ducrocq (University of Rennes) (Trinity College Dublin).

Título: A component model for embedded device, and application to the Lego Mindstorms.

Invierno 2005 Supervisión del proyecto de Niklaus Haldimann (University of Berne).

Título: A Sophisticated Programming Environment to Cope with Scoped Changes.

Verano 2005 Co-Supervisión con Stéphane Ducasse y Damien Cassou's internship Thesis (University of Berne).

Título: Smallwiki 2.

2004-05 Co-Supervisión con Stéphane Ducasse y Andreas Hosbach's Master Thesis (University of Berne).

Título: Learning from Cell.

2004 Co-Supervisión con Stéphane Ducasse y Florian Minjat's Master Thesis (University of Berne).

Título: Symbiosis of Classboxes with Traits. Running implementation and a paper at LMO 05.

*<http://src.acm.org/winners.html>

†<http://hapao.dcc.uchile.cl>

9 Idiomas

- Inglés (fluido)
- Español (fluido)
- Francés (fluido)
- Alemán (buen nivel)