Curriculum Vitae

Lukas Renggli

Personal

Email	renggli@gmail.com
Web	lukas-renggli.ch
GitHub	github.com/renggli
Date of Birth	June 11, 1980
Citizenship	Entlebuch, Switzerland
Languages	German (native proficiency)
	English (full professional proficiency)
	French (limited working proficiency)

Engineering Experience

Programming Languages	Dart, TypeScript, JavaScript, Java, Python, Smalltalk
Mobile Technologies	Android, iOS
Environments	Visual Studio Code, IntelliJ, Apple Xcode
System Administration	Linux, Apple OS X

Professional Experience

Jan 2011 – present
Senior Staff Software Engineer
Google Zürich GmbH
- ★ Google Travel, and Flights
- ★ YouTube Interactivity, Live, and Analytics

Aug 2007 – Dec 2010
Software Engineering Consultant
- ★ Nationaal Spaarfonds
- ★ Siemens Austria
- ★ AbleLink Technologies

Aug 2002 – Aug 2007
Software Engineer
netstyle.ch GmbH
Bern, Switzerland
- ★ www.cmsbox.ch

Education

Aug 2006 – Sep 2010 **PhD in Computer Science (Summa Cum Laude)**
Software Composition Group
University of Bern, Switzerland

- ⋆ Title: Dynamic Language Embedding With Homogeneous Tool Support
- ⋆ Supervisor: Prof. Dr. Oscar Nierstrasz
- ⋆ Koreferent: Prof. Dr. Ralf Lämmel
- ⋆ Grade: 6.0 (out of 6.0)

Okt 2000 – Jun 2006 **Master of Science in Computer Science (Summa Cum Laude)**
Software Composition Group
University of Bern, Switzerland

- ⋆ Title: Magritte – Meta-Described Web Application Development
- ⋆ Supervisors: Prof. Dr. Stéphane Ducasse and Prof. Dr. Oscar Nierstrasz
- ⋆ Grade: 6.0 (out of 6.0)
- ⋆ Minors: Mathematics 5.0 (out of 6.0), Astronomy 5.5 (out of 6.0)

Activities

Presentations and Lectures

- ⋆ Academic conferences: TOOLS 2010, Málaga, Spain (June 2010); ECOOP 2010, Maribor, Slovenia (June 2010).
- ⋆ Academic workshops: Smalltalks 2010, Concepción del Uruguay, Argentina (November 2010); ESUG 2010, Barcelona, Spain (September 2010); DYLA 2010, Málaga, Spain (June 2010); ESUG 2009, Brest, France (August 2009).
- ⋆ University lectures: University de Chile, Santiago, Chile (December 2010); Universidad de Buenos Aires, Argentina (November 2010); Software Languages Lab, Vrije Universiteit Brussel, Belgium (May 2010); INRIA Lille, France (May 2010); University of Lugano (April 2009).
- ⋆ Open source events: BlockCamp Paris, France (November 2009); London Geek Nights, ThoughtWorks UK Office (July 2009); Google Open Source Jam, Zurich (February 2009); OpenExpo Zurich, Switzerland (September 2008); Linux Days, Geneva, Switzerland (May 2007); Academic Computer Science Festival, Cracow, Poland (March 2007).
- ⋆ Industry events: CHOOSE Forum, University of Bern, Switzerland (December 2012); IEEE/CICOMRA, Buenos Aires, Argentina (November 2010); VisualAge Smalltalk Forum Europe, Stuttgart, Germany (June 2010); Arbeitskreis Objekttechnologie Norddeutschland, Nordakademie Elmshorn, Germany (April 2008); ICM International Congress Center, Munich, Germany (January 2008); CHOOSE Forum, Fachhochschule Nordwestschweiz, Brugg, Switzerland (November 2007).

Professional Service

- ⋆ Organizer: Dynamic Languages and Applications 2011 (DYLA).
- ⋆ Program committees: Dynamic Languages and Applications 2013 (DYLA); International Workshop on Smalltalk Technologies 2012 (IWST); Software Language Engineering Conference 2012 (SLE); Domain-Specific Aspect Languages Workshop 2012 (DSAL); Smalltalk Directions 2012 (STD); Argentinian Smalltalk Conference 2011 (FAST); International Workshop on Smalltalk Technologies 2011 (IWST); Domain-Specific Aspect Languages Workshop 2011 (DSAL); Dynamic Languages and Applications 2011 (DYLA); Argentinian Smalltalk Conference 2010 (FAST); International Workshop on Smalltalk Technologies 2010 (IWST); Domain-Specific Aspect Languages Workshop 2010 (DSAL); International Workshop on Smalltalk Technologies 2009 (IWST); L'ingénierie dirigée par les modèles 2009 (IDM).

★ Co-reviewer: International Conference On Compiler Construction 2013 (CC); International Conference On Model Driven Engineering Languages And Systems 2010 (MODELS); Reflection, AOP and Meta-Data for Software Evolution 2010 (RAM-SE); International Conference on Objects, Models, Components, Patterns 2010 (TOOLS); European Conference on Object-Oriented Programming 2010 (ECOOP); Object Oriented Programming Languages and Systems 2010 (OOPS); International Conference On Model Driven Engineering Languages And Systems 2009 (MODELS); European Conference on Object-Oriented Programming 2009 (ECOOP); International Conference on Program Comprehension 2008 (ICPC); International Conference on Objects, Models, Components, Patterns 2008 (TOOLS); Onward! OOPSLA 2008; International Workshop on Advanced Software Development Tools and Techniques 2008 (WASDeTT).

Open Source Projects

★ PetitParser, a dynamic parser framework (also available for Java and Dart).

★ Helvetia, language embedding without breaking tools.

★ Gofer, work with groups of package in Monticello.

★ Magritte, a generic self-described meta-model.

★ Pier, an extensible object-oriented content management system.

★ jQuery and jQueryUI for Seaside, change the way you program Javascript.

★ Scriptaculous, let Seaside applications fly Web 2.0 style.

★ Comet, HTTP server push extension for Seaside.

★ SqueakSource, a Smalltalk source code repository.

Awards and Prizes

★ Lukas Renggli, "Fakultätspreis 2010" for the PhD dissertation from the Philosophisch-naturwissenschaftliche Fakultät der Universität Bern, December 2010.

★ Philipp Bunge, Tudor Gîrba, Lukas Renggli, Jorge Ressia, and David Röthlisberger, "Glamour," 3rd prize in *The Innovation Technology Awards 2009*, ESUG Awards Chair, August 2009.

★ Lukas Renggli, "Pier," 3rd prize in *The Innovation Technology Awards 2007*, ESUG Awards Chair, August 2007.

★ Adrian Lienhard and Lukas Renggli, "SqueakSource," 2nd prize in *The Innovation Technology Awards 2005*, ESUG Awards Chair, September 2005.

★ Lukas Renggli, "SmallWiki," 1st prize in *The Innovation Technology Awards 2004*, ESUG Awards Chair, September 2004.

Publications

Refereed Papers in International Journals

1. Jorge Ressia, Alexandre Bergel, Oscar Nierstrasz and Lukas Renggli, "Modeling Domain-Specific Profilers," *Journal of Object Technology*, vol. 11, no. 1, April 2012, pp. 1-21.

2. Jorge Ressia, Tudor Gîrba, Oscar Nierstrasz, Fabrizio Perin and Lukas Renggli, "Talents: an environment for dynamically composing units of reuse," *Software: Practice and Experience*, 2012.

3. Fabrizio Perin, Lukas Renggli and Jorge Ressia, "Linguistic Style Checking with Program Checking Tools," *Journal of Computer Languages, Systems and Structures*, 2011.

4. Stéphane Ducasse, Tudor Gîrba, Adrian Kuhn and Lukas Renggli, "Meta-Environment and Executable Meta-Language using Smalltalk: an Experience Report," *Journal of Software and Systems Modeling (SOSYM)*, vol. 8, no. 1, February 2009, pp. 5–19.

5. Lukas Renggli and Oscar Nierstrasz, "Transactional Memory in a Dynamic Language," *Journal of Computer Languages, Systems and Structures*, vol. 35, no. 1, April 2009, pp. 21–30.

6. Stéphane Ducasse, Adrian Lienhard and Lukas Renggli, "Seaside: A Flexible Environment for Building Dynamic Web Applications," *IEEE Software*, vol. 24, no. 5, 2007, pp. 56–63.

Refereed Papers in International Conferences

1. Alexandre Bergel, Oscar Nierstrasz, Lukas Renggli and Jorge Ressia, "Domain-Specific Profiling," *Proceedings of the 49th International Conference on Objects, Models, Components and Patterns (TOOLS'11)*, LNCS, vol. 6705, Springer-Verlag, Berlin, Heidelberg, June 2011, pp. 68–82.

2. Lukas Renggli, Tudor Gîrba and Oscar Nierstrasz, "Embedding Languages Without Breaking Tools," *ECOOP'10: Proceedings of the 24th European Conference on Object-Oriented Programming*, Theo D'Hondt (Ed.), LNCS, vol. 6183, Springer-Verlag, Maribor, Slovenia, 2010, pp. 380–404.

3. Lukas Renggli, Stéphane Ducasse, Tudor Gîrba and Oscar Nierstrasz, "Domain-Specific Program Checking," *Proceedings of the 48th International Conference on Objects, Models, Components and Patterns (TOOLS'10)*, Jan Vitek (Ed.), LNCS, vol. 6141, Springer-Verlag, 2010, pp. 213–232.

4. Lukas Renggli, Marcus Denker and Oscar Nierstrasz, "Language Boxes: Bending the Host Language with Modular Language Changes," *Software Language Engineering: Second International Conference, SLE 2009, Denver, Colorado, October 5-6, 2009*, LNCS, vol. 5969, Springer, 2009, pp. 274–293.

5. Carl Friedrich Bolz, Adrian Kuhn, Adrian Lienhard, Nicholas D. Matsakis, Oscar Nierstrasz, Lukas Renggli, Armin Rigo and Toon Verwaest, "Back to the future in one week — implementing a Smalltalk VM in PyPy," *Self-Sustaining Systems*, LNCS, vol. 5142, Springer, 2008, pp. 123–139.

6. Marcus Denker, Tudor Gîrba, Adrian Lienhard, Oscar Nierstrasz, Lukas Renggli and Pascal Zumkehr, "Encapsulating and Exploiting Change with Changeboxes," *ICDL'07: Proceedings of the 15th International Conference on Dynamic Languages*, ACM Digital Library, Lugano, Switzerland, August 2007, pp. 25–49.

7. Lukas Renggli, Stéphane Ducasse and Adrian Kuhn, "Magritte — A Meta-Driven Approach to Empower Developers and End Users," *Model Driven Engineering Languages and Systems*, Gregor Engels, Bill Opdyke, Douglas C. Schmidt and Frank Weil (Eds.), LNCS, vol. 4735, Springer, September 2007, pp. 106–120.

8. Lukas Renggli and Oscar Nierstrasz, "Transactional Memory for Smalltalk," *Proceedings of the 2007 International Conference on Dynamic Languages (ICDL 2007)*, ACM Digital Library, 2007, pp. 207–221.

9. Stéphane Ducasse, Lukas Renggli and Roel Wuyts, "SmallWiki — A Meta-Described Collaborative Content Management System," *Proceedings ACM International Symposium on Wikis (WikiSym'05)*, ACM Computer Society, New York, NY, USA, 2005, pp. 75–82.

10. Stéphane Ducasse, Adrian Lienhard and Lukas Renggli, "Seaside — a Multiple Control Flow Web Application Framework," *Proceedings of 12th International Smalltalk Conference (ISC'04)*, September 2004, pp. 231–257.

Other Articles

1. Alexandre Bergel, Stéphane Ducasse and Lukas Renggli, "Seaside – Advanced Composition and Control Flow for Dynamic Web Applications," *ERCIM News*, vol. 72, January 2008.

Books

1. Stéphane Ducasse, Lukas Renggli, C. David Shaffer, Rick Zaccone and Michael Davies, *Dynamic Web Development with Seaside*, Square Bracket Associates, 2010.

Book Chapters

1. Jan Kurs, Guillaume Larcheveque, Lukas Renggli, Alexandre Bergel, Damien Cassou, Stéphane Ducasse and Jannik Laval, "PetitParser: Building Modular Parsers," *Deep Into Pharo*, pp. 36, Square Bracket Associates, September 2013.

2. Oscar Nierstrasz, Marcus Denker and Lukas Renggli, "Model-Centric, Context-Aware Software Adaptation," *Software Engineering for Self-Adaptive Systems*, Betty H.C. Cheng, Rogerio de Lemos, Holger Giese, Paola Inverardi and Jeff Magee (Eds.), pp. 128-145, Springer-Verlag, 2009.

Workshop Papers

1. Jorge Ressia, Fabrizio Perin and Lukas Renggli, "Suicide Objects," *Proceedings of the 6th Workshop on Dynamic Languages and Applications*, DYLA '12, ACM, New York, NY, USA, 2012, pp. 1:1–1:2.

2. Jorge Ressia, Tudor Gîrba, Oscar Nierstrasz, Fabrizio Perin and Lukas Renggli, "Talents: Dynamically Composable Units of Reuse," *Proceedings of International Workshop on Smalltalk Technologies (IWST 2011)*, 2011, pp. 109–118.

3. Fabrizio Perin, Lukas Renggli and Jorge Ressia, "Ranking Software Artifacts," *4th Workshop on FAMIX and Moose in Reengineering (FAMOOSr 2010)*, 2010.

4. Fabrizio Perin, Lukas Renggli and Jorge Ressia, "Natural Language Checking with Program Checking Tools," *Smalltalks 2010*, 2010.

5. Lukas Renggli, Stéphane Ducasse, Tudor Gîrba and Oscar Nierstrasz, "Practical Dynamic Grammars for Dynamic Languages," *4th Workshop on Dynamic Languages and Applications (DYLA 2010)*, Malaga, Spain, June 2010.

6. Jorge Ressia, Lukas Renggli, Tudor Gîrba and Oscar Nierstrasz, "Run-Time Evolution through Explicit Meta-Objects," *Proceedings of the 5th Workshop on Models@run.time at the ACM/IEEE 13th International Conference on Model Driven Engineering Languages and Systems (MODELS 2010)*, October 2010, pp. 37–48.

7. Lukas Renggli and Tudor Gîrba, "Why Smalltalk Wins the Host Languages Shootout," *Proceedings of International Workshop on Smalltalk Technologies (IWST 2009)*, ACM, New York, NY, USA, 2009, pp. 107–113.

8. Toon Verwaest and Lukas Renggli, "Safe Reflection Through Polymorphism," *CASTA '09: Proceedings of the first international workshop on Context-aware software technology and applications*, ACM, New York, NY, USA, 2009, pp. 21–24.

Technical Reports

1. Philipp Bunge, Tudor Gîrba, Lukas Renggli, Jorge Ressia and David Röthlisberger, "Scripting Browsers with Glamour," European Smalltalk User Group 2009 Technology Innovation Awards, August 2009, Glamour was awarded the 3rd prize.

2. Lukas Renggli, "Pier — The Meta-Described Content Management System," European Smalltalk User Group Innovation Technology Award, August 2007, Won the 3rd prize.

3. Adrian Lienhard and Lukas Renggli, "SqueakSource — Smart Monticello Repository," European Smalltalk User Group Innovation Technology Award, August 2005, Won the 2nd prize.

4. Lukas Renggli, "SmallWiki: Collaborative Content Management," Technical Report, University of Bern, 2003, Informatikprojekt.

Theses

1. Lukas Renggli, "Dynamic Language Embedding With Homogeneous Tool Support," Ph.D. thesis, University of Bern, October 2010.

2. Lukas Renggli, "Magritte — Meta-Described Web Application Development," Masters thesis, University of Bern, June 2006.