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### Education

- 2012–2016 **PhD Candidate in Computer Science**, *University of Bern*, Bern.  
Field of study: Parsing Technology
- 2007–2010 **MSc in Informatics**, *Czech Technical University*, Prague, red-diploma for excellent study results.  
Masters Thesis: *Introducing XML Schema Data Types into CellStore XQuery Interpreter* (won Dean's award)
- 2004–2007 **BSc in Informatics**, *Czech Technical University*, Prague.  
Bachelors Thesis: *Test pattern compression done with a help of evolutionary algorithms*

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### Work Experience

- 2008–2012 **Software Engineer**, *Certicon a.s.*, Prague.  
Development of automotive diagnostics software.
  - Java, Java Swing GUI design
  - ANT build server development and maintenance
  - Implementation of new features, releases of new versions, bug-fixing
  - Agile Scrum-like process
  - International team
- 2006–2008 **Web Developer**, *Hledejce.cz*, Prague.  
Startup website development.
  - PHP, Java, MySQL, Apache
  - Linux server and database administration
  - Development and deployment from scratch in a small team

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### Teaching Experience

- 2014 **Programming Languages**, *University of Bern*, Teaching Assistant.  
Seminars examining different paradigms for programming.
- 2013 **Compiler Construction**, *University of Bern*, Teaching Assistant.  
Seminars examining the most common techniques used by compilers.
- 2012 **Concurrent Programming**, *University of Bern*, Teaching Assistant.  
Seminars about concurrent programming techniques.
- 2011 **Design Patterns and Object Oriented Programming**, *Czech Technical University*, Teaching Assistant.  
Seminars about implementation and application of the most popular design patterns.

- 2010 **Runtime Systems**, *Czech Technical University*, Teaching Assistant.  
Seminars about implementation of runtime systems and virtual machines for various programming languages.

## Projects and Related Publications

### Parsing Technology

- 2014 **Top-Down Parsing with Parsing Contexts**: Jan Kurš, Mircea Lungu and Oscar Nierstrasz. In *Proceedings of International Workshop on Smalltalk Technologies (IWST 2014)*.
- 2014 **Bounded Seas: Island Parsing Without Shipwrecks**: Jan Kurš, Mircea Lungu, and Oscar Nierstrasz. In Beno Combemale, David J. Pearce, Olivier Barais, and Jurgen J. Vinju (Ed.), *Software Language Engineering, Lecture Notes in Computer Science 8706* p. 62-81, Springer International Publishing.
- 2013 **PetitParser: Building Modular Parsers**: Jan Kurš, Guillaume Larcheveque, Lukas Renggli, Alexandre Bergel, Damien Cassou, Stéphane Ducasse, and Jannik Laval. In *Deep Into Pharo*, p. 36, Square Bracket Associates.
- 2013 **On Planning an Evaluation of the Impact of Identifier Names on the Readability and Maintainability of Programs**: Mircea Lungu and Jan Kurš. In *USER'13: Proceedings of the 2nd Workshop on User evaluations for Software Engineering Researchers*.
- 2013 **Parsing for agile modeling**: Oscar Nierstrasz and Jan Kurš. In *Science of Computer Programming 0(0)*.
- 2013 **Layout Sensitive Parsing in Petit Parser Framework**: Attieh Sadeghi Givi. Bachelor's thesis, University of Bern, October 2012.

### Language Interoperability

- 2013 **Towards a Runtime Code Update in Java**: Marcel Hlopko, Jan Kurš, and Jan Vraný. In *DATESO 2013*, p. 13—25, Technical University of Ostrava, Ostrava.
- 2012 **On the Integration of Smalltalk and Java**: Jan Vraný, Jan Kurš, Marcel Hlopko, and Claus Gittinger. In *Proceedings of the 4rd International Workshop on Smalltalk Technologies (IWST'12)*, ACM.
- 2012 **Efficient Method Lookup Customization for Smalltalk**: Jan Vraný, Jan Kurš, and Claus Gittinger. In Carlo Furia and Sebastian Nanz (Ed.), *Objects, Models, Components, Patterns, Lecture Notes in Computer Science 7304* p. 124-139, Springer Berlin / Heidelberg, 2012. 10.1007/978-3-642-30561-0\_10.
- 2011 **Supporting Language Interoperability by Dynamically Switched Behaviors**: Jan Kurš, Jan Vraný and Alexandre Bergel. In *DATESO 2011*, p. 73-84.

## Languages

English	<b>Intermediate</b>	<i>Con conversationally fluent</i>
German	<b>Basic</b>	<i>Basic words and phrases only</i>
Czech	<b>Mother tongue</b>	

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