

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*

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**, *Hledejcey.cz*, Prague.
Startup website development.
 - PHP, Java, MySQL, Apache
 - Linux server and database administration
 - Development and deployment from scratch in a small team

Teaching Experience

- 2014 **Programming Languages**, *University of Bern*, Teaching Assistant.
Seminars on different paradigms for programming.
- 2013 **Compiler Construction**, *University of Bern*, Teaching Assistant.
Seminars on the most common techniques used by compilers.
- 2012 **Concurrent Programming**, *University of Bern*, Teaching Assistant.
Seminars on concurrent programming techniques.
- 2011 **Design Patterns and Object Oriented Programming**, *Czech Technical University*, Teaching Assistant.
Seminars on implementation and application of the most popular design patterns.
- 2010 **Runtime Systems**, *Czech Technical University*, Teaching Assistant.
Seminars on implementation of runtime systems and virtual machines for various programming languages.

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, DavidJ. Pearce, Olivier Barais, and JurgenJ. 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.
- 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 **Intermediate**
German **Basic**
Czech **Mothertongue**

Con conversationally fluent
Basic words and phrases only

Contact

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