Jan Kurš

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, OSGi
- 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**, *Hledejceny.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

2015 **Compiler Construction**, *University of Bern*, Teaching Assistant.
Seminars on the most common techniques used by compilers.

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

2015
Publication
Bounded Seas: Jan Kurš, Mircea Lungu and Oscar Nierstrasz. In Computer Languages, Systems & Structures. SPecial issue on the 6th and 7th International Conference on SLE 2013 and SLE 2014.

2014
Publication
Top-Down Parsing with Parsing Contexts: Jan Kurš, Mircea Lungu and Oscar Nierstrasz. In Proceedings of International Workshop on Smalltalk Technologies (IWST 2014).

2014
Publication
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
Book Chapter
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
Publication
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
Publication
Parsing for agile modeling: Oscar Nierstrasz and Jan Kurš. In Science of Computer Programming.

Language Interoperability

2013
Publication
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
Publication
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
Publication
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
Publication
Supporting Language Interoperability by Dynamically Switched Behaviors: Jan Kurš, Jan Vraný and Alexandre Bergel. In DATESO 2011, p. 73-84.

Languages

Intermediate **English** *Conversationally fluent*

Basic **German** *Basic words and phrases only*

Mothertongue **Czech**

Contact

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