

# DR. VADIM V. ZAYTSEV

## *Curriculum Vitae*

October 2017

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### Current address

Dynamically updated portfolio counterpart:

<http://grammarware.net/lives>

Dr. Vadim Zaytsev Raincode / Raincode Labs Kazernestraat 45 1000 Brussels Belgium
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<http://grammarware.net> (academic)  
<http://grammarware.github.io> (projects)  
[vadim@grammarware.net](mailto:vadim@grammarware.net) (email)  
+322 522 06 63 (work)  
[@grammarware](#) (twitter)

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Better known as @grammarware, I am the Chief Science Officer of two Belgian companies: Raincode (specialising in legacy migration from mainframe to .NET) and Raincode Labs (providing a broad range of compiler services). I have a PhD, two cum laude MSc degrees and one BSc. I am working in software analysis, modelling and restructuring since 2004; before that I was a bytecode hacker and a railway engineer. My past affiliations include three Dutch academic research places, one German one, one Russian one and a few startups, as well as volunteer participation at Wikimedia activities. My research interests gravitate towards elicitation of structure in software and improving it by taking advantage of whatever structure is present. My current day to day activities involve developing compilers, writing metaprograms, analysing migration projects and disseminating industrial advancements at academic conferences and vice versa.

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### Skill selection

#### Scientific research

Evidence: MSc cum laude degrees [12, 14], PhD degree [10], academic publishing history (see complete list of publications below on pp. 6–18), best paper award at SCAM 2009 [53] and DeBT 2003, best reviewer award at SCAM 2016.

#### Academic writing

Evidence: a number of papers written *solo* for peer-reviewed international workshops [61, 1, 63, 18, 65, 67, 26, 33, 74, 39, 40, 45, 46, 47, 48], seminars [22, 75, 76, 87], symposia [73, 30, 37, 81, 49], summer schools [52, 97, 99], conferences [19, 21, 42, 86, 43] and journals [3, 5, 6, 7, 8, 16, 17]; co-authored many more (full publication list included below).

#### Project supervision

Evidence: supervised Master students who successfully defended their theses [119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 140, 141, 142, 143, 144, 145, 146, 147, 148] and presented at SATToSE'14<sup>1</sup>, SATToSE'15<sup>2,3</sup> and SATToSE'16<sup>4,5</sup>; co-supervised a Bachelor student who presented at Student Research Conference [72, 107].

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<sup>1</sup>Ammar Hamid, *Detecting Refactorable Clones Using PDG and Program Slicing*, Preproc. of SATToSE, 2014.

<sup>2</sup>Carlos U. Cirello F., *Pretty Printers: Anatomy and Measured Effects on Productivity of Teams of Developers*, Preproceedings of SATToSE, 2015, pp. 63–66.

<sup>3</sup>Boryana Goncharenko, *Detecting Violations of CSS Code Conventions*, Preproc. of SATToSE, 2015, pp. 89–91.

<sup>4</sup>Nico de Groot, *Analysing CSS using the M3 Model*, Preproceedings of SATToSE, 2016.

<sup>5</sup>Gorjan Jovanovski, Vadim Zaytsev, *Critical CSS Rules — Decreasing Time to First Render by Inlining CSS Rules for Over-the-Fold Elements*, SATToSE, 2016.

## Public presentation

Evidence: presented (co)authored work at GPCE'17, PLATEAU'17, SLE'17, NOOL'17, Parsing@SLE'17, CoCoS'17, MoDELS'17, Dagstuhl-17342, IWACO'17, <Programming>'17, MoreVMs'17, DSLDI'16, META'16, ICSME'16, SATToSE'16, SANER'16 ERA, IFL'15, GCM'15, PAME'15, SATToSE'15 (×2), NLFP'14, SQM'14, CSMR-WCRE'14 ERA, TFPIE'14, TFP'14, GEMOC'14, ME'14, EduSymp'14, MoDELS'14, SATToSE'14 (×2), XM'13, SLE'13, BX'12, SAC'12, LDTA'12, SATToSE'12, SoTeSoLa'12, SFD'12, XM'12, MPM'12, WNH'12, SLE'11, Wikimania'11, WSR'10, SLE'10, IFM'09, GTTSE'09, SCAM'09, GTTSE'05, MRAD'04, DeBT'03; gave a tutorial at MoDELS'13; was an invited speaker at SPLASH-I'17, ICSME'16, HDSA'15, WLE'14, EFD'14, CWI SM'13, RedDevCon'13, IPA SpringDays'12, SLaC&M'12, SL(E)BoK'12, MRAD'04.

## Community management

Evidence: active official participation in organising events such as STAF'15–'16, GTTSE'09–'15, SATToSE'12–'17, WLE'14, WCRE'13, MoDELS'13/'17, SoTeSoLa'12, PEM'12–'13, WCN'11–'12, SLE'11/'16; distinguishing awards for active participation at GTTSE'09, WCRE'13 and SATToSE'17; co-founding and co-organising OOPSLE [83, 78, 80, 4] and MMMDE [108] workshops, several Wikia wikis (2006–2017) and a Fidonet echoconference (1997–2002). Frequently chairing sessions at conferences, moderating discussions, put in charge of organising hackathons and coding dojos. A member of the Steering Committee of SATToSE. Editor in Chief of the SLEBoK initiative.

## Programming

Evidence: several thousands commits to various repositories on GitHub (@grammarware), BitBucket (@grammarware) and SourceForge (@sspider). Most actively used programming languages recently: C#, RScript, Rascal, Elm and Python. Due to extensive language documentation research and personal curiosity, at least marginally familiar with almost all programming languages, markup languages, metalanguages, transformation languages, modelling languages and data description languages, a number of them with practical experience (detailed information and certificates available on demand). Published peer reviewed papers concerning languages such as Assembler [65, 25], C++ [36], C# [19, 25, 99], CSS [23, 24, 68, 27, 70], EBNF [48, 91, 49, 93], Haskell [82], JavaScript [69, 27, 55], Java [50, 94, 9, 53], JSON [22, 75], Magnolia [64], Matlab [56], MegaL [35, 39, 44, 84, 47, 46, 89, 88], Prolog [37, 54], Python [2, 24, 57], Rascal [61, 20, 26, 31, 76, 41, 43, 86, 48], Ruby [36], Rust [64], Scheme [36], XBGF [3, 33, 5, 6, 81, 7, 8, 92, 52, 97], XSLT [26, 76], etc.

## Languages

Fluent in Russian, English, Dutch, some light familiarity with French, German, Latin, Japanese. Evidence for Russian: native language, several awards for writing contests, substantial contributions to Wikipedia (<http://grammarware.github.io/wiki/>) and several other wiki-sites. Evidence for English: professional collaboration since 1999, editorial work [101, 102, 103], lecturing since 2004, list of publications. Evidence for Dutch: professional collaboration since 2005, supervised students since 2005, editorial work [104, 105, 106]. Evidence for German: TestDaF TDN 5/4/3/3 certificate from 2010.

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## Qualifications

Dynamically updated portfolio counterpart:

<http://grammarware.net/works#education>

Universiteit van Amsterdam, The Netherlands,  
**BKO**, *Basic Teaching Qualification*, April–July 2014.

Department: Institute for Informatics, Faculty of Science.  
Supervisors: Vivianne Tolen (NL), Christianne Vink (NL).

Vrije Universiteit Amsterdam, The Netherlands,

**PhD**, *Recovery, Convergence and Documentation of Languages*, October 2010.

Department: Information Management and Software Engineering.

Supervisors: Prof. Dr. Ralf Lämmel (DE), Prof. Dr. Chris Verhoef (NL).

Committee: Prof. Dr. Jean Bézivin (FR), Dr. Jean-Marie Favre (FR), Prof. Dr. Willem Jan Fokkink (NL), Prof. Dr. Paul Klint (NL), Dr. Steven Klusener (NL).

Universiteit Twente, The Netherlands,

**MSc**, *Combinatorial Test Set Generation: Concepts, Implementation, Case Study*, June 2004.

Programme: Telematics, *cum laude*.

Supervisors: Prof. Dr. Ed Brinksma (NL), Dr. Ralf Lämmel (NL).

Rostov State University (Southern Federal University), Russia,

**MSc**, *Modelling and Model Checking of Distributed Systems*, June 2003.

Programme: Applied Mathematics, *cum laude*.

Supervisor: Dr. Alexander Litvinenko (RU).

Rostov State University (Southern Federal University), Russia,

**BSc**, *Python Programming Language E-Learning Complex*, July 2002.

Programme: Mathematics (no honours assigned in Russia at Bachelor's level).

Supervisor: Dr. Alexander Litvinenko (RU).

## Work experience

Dynamically updated portfolio counterpart:

<http://grammarware.net/works#employment>

**Raincode Labs** (Belgium),

- *Chief Science Officer, analyst/developer, since 2016.*

Consulting companies on their IT portfolios with legacy assets (PACBASE, CA GEN, App-Builder, JBASIC and others), conducting investigation on technical feasibility for migration, renovation and retirement of software languages, planning, supervising and performing such projects, designing and implementing domain-specific languages tailed to clients' needs, extending existing software languages to cope with modern technologies, architecting and developing bespoke compilers, interpreters, classifiers, recommenders, IDE plugins and other software language processors.

**Raincode** (Belgium),

- *Chief Science Officer, analyst/developer, since 2016.*

Analysing large IT portfolios built with mainframe technologies (COBOL, PL/I, HLASM, REXX, CLIST, JCL, CICS, IMS) and 4GL code generators (PACBASE, CA GEN, App-Builder), migrating and replatforming large codebases, writing metaprograms (YAFL, RcScript, Rascal, C<sup>#</sup>/Roslyn) performing measurement, analysis, refactoring and restructuring of code, developing and integrating parsers (PEG, GLL, LALR), engineering grammars (GrammarLab, YAFL).

**Universiteit van Amsterdam** (The Netherlands),

- Master of Science programme in Software Engineering, *lecturer*, **2013–2016**.  
Coordinating the teaching process, teaching graduate and undergraduate students (Haskell [82], Go, Rascal, Java, C#, Ruby, Python, Scala, Make, git), supervising final projects of graduate students (C [143], C++ [148], C# [129], Java [146, 141, 135, 133, 128, 127, 126], JavaScript [140, 138, 134, 137, 123], Scheme [143], Ruby [143], PHP [147], Rascal [148, 142, 136, 124, 120, 119], ANTLR [146, 128], Kurogo [144], Jenkins [147, 140], QLS [145], Crawljax [140, 134, 132], CSS [137, 134, 132, 131], Python [139, 128], Go).

**Centrum Wiskunde & Informatica** (The Netherlands),

- National Research Institute for Mathematics and Computer Science (CWI),  
Software Analysis and Transformation Group (SWAT), *postdoctoral researcher*, **2010–2013**.  
Foundations of a grammar laboratory (Rascal, Python, XSLT, Java, Haskell, various DSLs), in particular researching topics like grammar analysis [43], grammar testing [94, 50], language conversion [114, 92, 8], grammar recovery [93, 49, 91, 48, 5], grammar transformation [90, 89, 47, 86, 85, 45, 6], grammar engineering [149, 87, 111, 5], megamodelling [88, 46, 84, 44] and parsing [42].
- National Research Institute for Mathematics and Computer Science (CWI),  
Signals and Images Group (PNA4), *research trainee*, **2000**.  
Software migration (C, ksh), web-enabling (DHTML, JS, Perl, CGI), data visualisation (Matlab, Maple, DHTML, JS).

**Universität Koblenz-Landau** (Germany),

- Software Languages Team, *scientific researcher*, **2008–2010**.  
Software language engineering (Prolog, Python, Haskell, XML, XSLT, XSD, Rascal, many DSLs), in particular grammar recovery [99, 11, 96, 9], language documentation [95, 51], grammar convergence [54, 97, 53, 11, 96, 52, 9], grammar transformation [115].

**Vrije Universiteit Amsterdam** (The Netherlands),

- Department of Information Management and Software Engineering,  
*doctoral student* [116, 10], **2004–2008**.  
Language parametric program restructuring (ASF, SDF, GDK, GRK, C, Smalltalk, Perl, Python, C#, COBOL) [12, 99, 98].

**Rostov State Transport University** (Russia),

- Department of Power Engineering,  
*scientific programmer*, **1999–2000** on site; remotely till **2008**.  
Technical and mathematical research support (Matlab, Python, Delphi, GWBasic, QBasic, VB, JS, DHTML) [60, 59, 58, 56, 55].

**Universiteit Twente** (The Netherlands),

- Department of Electrical Engineering, Mathematics and Computer Science, Programme Telematica *teaching assistant*, **2003**.

**Desk.nl** (The Netherlands, CWI spin-off),

- prototype programming (Flash, HTML, JS), *trainee*, **2001**;
- generating presentations (XML, DHTML, JS), *trainee*, **1999**.

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**Teaching experience**

Dynamically updated portfolio counterpart:

<http://grammarware.net/teaches>

University course	Year	Coordinator	Staff involved
<i>Software Evolution</i>	2016	Riemer van Rozen	Dr. Vadim Zaytsev
<i>Compiler Construction School</i>	2016	Dr. Vadim Zaytsev	Paco van Beckhoven Mats Stijlart
<i>Software Evolution</i>	2015	Dr. Vadim Zaytsev	Prof. Dr. Jurgen Vinju Dr. Magiel Bruntink
<i>Preparation Master Project</i>	2015–2016	Dr. Vadim Zaytsev	
<i>Software Specification and Testing</i>	2015	Prof. Dr. Jan van Eijck	Dr. Vadim Zaytsev
<i>Project Software Engineering</i>	2015	Dr. Vadim Zaytsev	[30]
<i>Software Construction</i>	2015	Dr. Tijs van der Storm	Dr. Vadim Zaytsev
<i>Software Evolution</i>	2014	Dr. Magiel Bruntink	Dr. Vadim Zaytsev
<i>Preparation Master Project</i>	2014–2015	Dr. Vadim Zaytsev	Dr. Magiel Bruntink
<i>Software Specification and Testing</i>	2014	Prof. Dr. Jan van Eijck	Dr. Vadim Zaytsev [82]
7 Premaster Courses <sup>6</sup>	2013–2015	Dr. Vadim Zaytsev	Edwin Steffens [37]
<i>Automata and Formal Languages</i>	2014	Dr. Inge Bethke	Dr. Vadim Zaytsev
<i>Software Construction</i>	2014	Dr. Tijs van der Storm	Dr. Vadim Zaytsev
<i>Project Software Engineering</i>	2014	Hans L. Dekkers	Dr. Vadim Zaytsev Alan M. Berg
<i>Preparation Master Project</i>	2013–2014	Dr. Vadim Zaytsev	Prof. Dr. Paul Klint Dr. Jurgen Vinju Dr. Tijs van der Storm Dr. Magiel Bruntink Rian Hagebeuk
<i>Software Evolution</i>	2014	Prof. Dr. Jurgen Vinju	Dr. Vadim Zaytsev
<i>Software Specification and Testing</i>	2013	Prof. Dr. Jan van Eijck	Dr. Vadim Zaytsev
<i>Software Construction</i>	2013	Dr. Tijs van der Storm	Dr. Vadim Zaytsev
<i>Advanced Programming</i>	2012	Prof. Dr. Ralf Lämmel	Dr. Vadim Zaytsev
<i>Software Construction</i>	2012	Dr. Tijs van der Storm	Dr. Vadim Zaytsev
<i>Software Evolution</i>	2011	Dr. Jurgen Vinju	entire SWAT team
<i>Programming Paradigms and Formal Semantics</i>	2009–2010	Prof. Dr. Ralf Lämmel	Vadim Zaytsev
<i>Advanced Programming</i>	2009	Prof. Dr. Ralf Lämmel	Vadim Zaytsev
<i>Programming</i>	2008	Prof. Dr. Ralf Lämmel	Vadim Zaytsev
<i>Project ISO</i>	2007	Prof. Dr.ir. Jan L. Top	Vadim Zaytsev
<i>Practical Software Engineering</i>	2006	Prof. Dr. J. C. van Vliet	Vadim Zaytsev
<i>Programming Languages: Smalltalk</i>	2005	Vadim Zaytsev	
<i>Principles of OOSD</i>	2004	Dr. Ralf Lämmel	Vadim Zaytsev
<i>Java Refresher Course</i>	2003	Vadim Zaytsev	
<i>Python Programming</i>	2002	Vadim Zaytsev	[15, 57, 118]

<sup>6</sup>Program Refactoring, Code Complete, Data Structures and Algorithms, Compiler Construction, Webcrawler Programming in Python, Logic in Action, Functional Programming in Haskell.

## List of publications

Dynamically updated portfolio counterpart:

<http://grammarware.net/writes>

Listed in reverse chronological order within each category. The order of co-authors is always determined by the *alphabet*, unless some special circumstances are involved<sup>7</sup>. Variations in spelling of the names are due to unavoidable bureaucratic reasons. Supervised theses are listed among other editorial works.

The list is sectioned as follows:

- ◇ **Current drafts & preprints:** items which publication status is unclear at the moment.
- ◇ **Journals & theses:** publications in peer reviewed journals, doctoral and graduate theses.
- ◇ **Conference proceedings:** publications in post-proceedings and proper peer reviewed proceedings, including workshops that publish in a traditional way.
- ◇ **Workshops:** items in informal or self-publishing venues, extended abstracts, artefact and poster companion papers.
- ◇ **Editorial work:** proceedings volumes (co)edited by me.
- ◇ **Web publications & technical reports:** notable self-publications and not explicitly peer reviewed work.
- ◇ **Supervised theses:** successfully defended BSc, MSc and PhD theses under my (co)supervision.

## Current drafts & preprints

- [1] Vadim Zaytsev. “Parsing @ IDE”. Submitted to the The Fifth Annual Workshop on Parsing Programming Languages (Parsing@SLE). Pending camera ready submission. 2017.

## Journals & theses

- [2] Nicole Vavrová and Vadim Zaytsev. “Does Python Smell Like Java?” In: *The Art, Science and Engineering of Programming* (*⟨Programming⟩*) 1 (2 Apr. 2017). Ed. by Cristina Videira Lopes, pp. 11-1–11-29. DOI: [10.22152/programming-journal.org/2017/1/11](https://doi.org/10.22152/programming-journal.org/2017/1/11). URL: <http://arxiv.org/abs/1703.10882>.
- [3] Vadim Zaytsev. “Cotransforming Grammars with Shared Packed Parse Forests”. In: *Electronic Communications of the European Association of Software Science and Technology (EC-EASST); Graph Computation Models — Selected Revised Papers* 73 (Apr. 2016). Ed. by Detlef Plump. ISSN: 1863-2122. DOI: [10.14279/tuj.eceasst.73.1032](https://doi.org/10.14279/tuj.eceasst.73.1032). URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/1032>.
- [4] Anya Helene Bagge and Vadim Zaytsev. “Open and Original Problems in Software Language Engineering 2015 Workshop Report”. In: *SIGSOFT Software Engineering Notes* 40 (3 May 2015), pp. 32–37. DOI: [10.1145/2757308.2757313](https://doi.org/10.1145/2757308.2757313).
- [5] Vadim Zaytsev. “Grammar Zoo: A Corpus of Experimental Grammarware”. In: *Fifth Special issue on Experimental Software and Toolkits of Science of Computer Programming (SCP EST5)* 98 (Feb. 2015), pp. 28–51. DOI: [10.1016/j.scico.2014.07.010](https://doi.org/10.1016/j.scico.2014.07.010).
- [6] Vadim Zaytsev. “Negotiated Grammar Evolution”. In: *Special issue on Extreme Modeling of The Journal of Object Technology (JOT)* 13.3 (July 2014), 1:1–22. DOI: [10.5381/jot.2014.13.3.a1](https://doi.org/10.5381/jot.2014.13.3.a1).

<sup>7</sup>Special circumstances apply only for [41, 51, 60, 79, 95]. The “A–Z–T–H” order of [13] and the “Z–L” order of [57] were predetermined by the Russian alphabet.

- [7] Vadim Zaytsev. “Software Language Engineering by Intentional Rewriting”. In: *Electronic Communications of the European Association of Software Science and Technology (EC-EASST); Software Quality and Maintainability* 65 (Mar. 2014). ISSN: 1863-2122. DOI: [10.14279/tuj.eceasst.0.903](https://doi.org/10.14279/tuj.eceasst.0.903). URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/903>.
- [8] Vadim Zaytsev. “Language Evolution, Metasyntactically”. In: *Electronic Communications of the European Association of Software Science and Technology (EC-EASST); Bidirectional Transformations* 49 (2012). ISSN: 1863-2122. DOI: [10.14279/tuj.eceasst.49.708](https://doi.org/10.14279/tuj.eceasst.49.708). URL: <http://journal.ub.tu-berlin.de/eceasst/article/view/708>.
- [9] Ralf Lämmel and Vadim Zaytsev. “Recovering Grammar Relationships for the Java Language Specification”. In: *Software Quality Journal (SQJ); Section on Source Code Analysis and Manipulation* 19.2 (Mar. 2011), pp. 333–378. ISSN: 0963-9314. DOI: [10.1007/s11219-010-9116-5](https://doi.org/10.1007/s11219-010-9116-5).
- [10] Vadim Zaytsev. “Recovery, Convergence and Documentation of Languages”. PhD thesis. Amsterdam, The Netherlands: Vrije Universiteit, Oct. 2010.
- [11] Ralf Lämmel and Vadim Zaytsev. “Reverse Engineering Grammar Relationships”. In: *Software-retechnik-Trends; Bericht und Beiträge des gemeinsamen Workshops Software-Reengineering und Design for Future* 30.2 (May 2010). Extended abstract, 2 pages. ISSN: 0720-8928.
- [12] Vadim Zaytsev. “Combinatorial Test Set Generation: Concepts, Implementation, Case Study”. Master’s thesis. Enschede, The Netherlands: Universiteit Twente, June 2004.
- [13] Alexander Agranovsky, Vadim Zaytsev, Boris Telesnin and Roman Hady. “Program Verification using Models”. In: *Open Systems* 12.1–2 (Dec. 2003). In Russian, pp. 45–47. URL: <http://www.osp.ru/os/2003/12/183691/>.
- [14] Vadim Zaytsev. “Modelling and Model Checking of Distributed Systems”. In Russian. Master’s thesis. Rostov-on-Don, Russia: Rostov State University, June 2003.
- [15] Vadim Zaytsev. “Python Programming Language E-Learning Complex”. In Russian. Bachelor’s thesis. Rostov-on-Don, Russia: Rostov State University, June 2002.
- [16] Vadim Zaytsev. “Golden Java: History and Geography”. In: *Xakep Special Issue* 02 (Feb. 2000). In Russian. An overview of Java/JavaScript programming language family, pp. 56–59.
- [17] Vadim Zaytsev. “Trojan Horses. Classification”. In: *Xakep Journal* 01.13 (Jan. 2000). In Russian. An overview of trojan-class malware, pp. 62–64.

## Conference proceedings & post-proceedings

- [18] Vadim Zaytsev. “Megamodeling with NGA Multimodels”. In: *Proceedings of the Second International Workshop on Comprehension of Complex Systems (CoCoS)*. Ed. by Christoph Bockisch and Michael Van De Vanter. ACM, 2017, pp. 1–6. ISBN: 978-1-4503-5521-6. DOI: [10.1145/3141842.3141843](https://doi.org/10.1145/3141842.3141843).
- [19] Vadim Zaytsev. “Parser Generation by Example for Legacy Pattern Languages”. In: *Proceedings of the 16th International Conference on Generative Programming: Concepts and Experience (GPCE)*. Ed. by Matthew Flatt and Sebastian Erdweg. ACM, 2017, pp. 212–218. ISBN: 978-1-4503-5524-7. DOI: [10.1145/3136040.3136058](https://doi.org/10.1145/3136040.3136058).
- [20] Mats Stijlaart and Vadim Zaytsev. “Towards a Taxonomy of Grammar Smells”. In: *Proceedings of the 10th International Conference on Software Language Engineering (SLE)*. Ed. by Benoît Combemale, Marjan Mernik and Bernhard Rumpe. ACM, 2017, pp. 43–54. ISBN: 978-1-4503-5525-4. DOI: [10.1145/3136014.3136035](https://doi.org/10.1145/3136014.3136035).

- [21] Vadim Zaytsev. “Language Design with Intent”. In: *Proceedings of the ACM/IEEE 20th International Conference on Model Driven Engineering Languages and Systems (MoDELS)*. IEEE, 2017, pp. 45–52. DOI: [10.1109/MODELS.2017.16](https://doi.org/10.1109/MODELS.2017.16).
- [22] Vadim Zaytsev. “BibSLEIGH: Bibliography of Software (Language) Engineering in Generated Hypertext”. In: *Post-proceedings of the Eighth Seminar in Series on Advanced Techniques and Tools for Software Evolution (SATToSE 2015)*. Ed. by Anya Helene Bagge, Tom Mens and Haidar Osman. Vol. 1820. CEUR Workshop Proceedings. CEUR-WS.org, 2017, pp. 54–64. URL: <http://ceur-ws.org/Vol-1820/paper-06.pdf>.
- [23] Nico de Groot and Vadim Zaytsev. “CSS Corpus for Reproducible Analysis”. In: *Post-proceedings of the Ninth Seminar on Advanced Techniques and Tools for Software Evolution (SATToSE)*. Ed. by Mircea Filip Lungu, Anya Helene Bagge and Haidar Osman. Vol. 1791. CEUR Workshop Proceedings. CEUR, 2017, pp. 47–56. URL: <http://ceur-ws.org/Vol-1791/paper-06.pdf>.
- [24] Boryana Goncharenko and Vadim Zaytsev. “Language Design and Implementation for the Domain of Coding Conventions”. In: *Proceedings of the Ninth International Conference on Software Language Engineering (SLE)*. Ed. by Tijs van der Storm, Emilie Balland and Dániel Varró. 2016, pp. 90–104. ISBN: 978-1-4503-4447-0. DOI: [10.1145/2997364.2997386](https://doi.org/10.1145/2997364.2997386).
- [25] Volodymyr Blagodarov, Yves Jaradin and Vadim Zaytsev. “Tool Demo: Raincode Assembler Compiler”. In: *Proceedings of the Ninth International Conference on Software Language Engineering (SLE)*. Ed. by Tijs van der Storm, Emilie Balland and Dániel Varró. 2016, pp. 221–225. DOI: [10.1145/2997364.2997387](https://doi.org/10.1145/2997364.2997387).
- [26] Vadim Zaytsev. “Evolution of Metaprograms: XSLT as a Metaprogramming Language”. In: *Proceedings of the Workshop on Meta-Programming Techniques and Reflection (META)*. To appear. ACM Digital Library, 2016.
- [27] Leonard Punt, Sjoerd Visscher and Vadim Zaytsev. “The A?B\*A Pattern: Undoing Style in CSS and Refactoring Opportunities it Presents”. In: *Proceedings of the 32nd International Conference on Software Maintenance and Evolution (ICSME)*. 2016, pp. 67–77. DOI: [10.1109/ICSME.2016.73](https://doi.org/10.1109/ICSME.2016.73).
- [28] Vadim Zaytsev. “Two-Faced Data”. In: *Post-proceedings of the First International Workshop on Patterns in Model Engineering (PAME 2015)*. Ed. by Richard F. Paige, Eugene Syriani, Steffen Zschaler and Hüseyin Ergin. Vol. 1657. CEUR Workshop Proceedings. CEUR-WS.org, 2016, pp. 16–26. URL: <http://ceur-ws.org/Vol-1657/paper4.pdf>.
- [29] Juriaan Kennedy van Dam and Vadim Zaytsev. “Software Language Identification with Natural Language Classifiers”. In: *Proceedings of the 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering: the Early Research Achievements track (SANER ERA)*. Ed. by Katsuro Inoue, Yasutaka Kamei, Michele Lanza and Norihiro Yoshida. IEEE, 2016, pp. 624–628. DOI: [10.1109/SANER.2016.92](https://doi.org/10.1109/SANER.2016.92).
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- [123] Gorjan Jovanovski. “Critical CSS Rules: Decreasing Time to First Render by Inlining CSS Rules for Over-the-Fold Elements”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, July 2016.
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- [126] Timon Dominique Langlotz. “Event Detection Using Machine Learning Classifiers in the Context of Real-World Objects”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Jan. 2016.

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- [129] Tuba Kaya Chomette. “Automatically Detecting ORM Performance Anti-Patterns on C# Applications”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Sept. 2015.
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- [131] Axel Polet. “Re-engineering Cascading Style Sheets by Preprocessing and Refactoring”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2015.
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- [133] Daniel Conde Moya. “NATURALIZE: A replication study”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2015.
- [134] Leonard Punt. “The A-B\*-A Pattern of Undoing Style in Cascading Style Sheets”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2015.
- [135] Nian Liu. “User-Centered 3D Manipulation Model for Scientific Visualization”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2015.
- [136] René Bulsing. “Detecting Refactored Clones with Rascal”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2015.
- [137] Kevin Adegeest. “Automated Detection of Unused CSS Style Rules by Crawling Web Applications”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2015.
- [138] Bas Meesters. “The Visualisation of Symbolic Transition Systems”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, July 2015.
- [139] Jetse Koopmans. “Similarity, Data Compression and a Dead Composer”. Bachelor’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, June 2015.
- [140] Sven Rohde. “Test-suite for Automated Invariant-based Testing of AJAX Web-applications”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Mar. 2015.
- [141] George Pachitariu. “Data Replication Algorithms in Distributed Databases”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Oct. 2014.
- [142] Lulu Zhang. “Implementing a PDG Library in Rascal”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Sept. 2014.
- [143] Ammar Hamid. “Detecting Refactorable Clones Using PDG and Program Slicing”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2014.
- [144] Xander Horjus. “UvApp: Challenges in Mobile Software Engineering Examined”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2014.
- [145] Varvara Tzika. “Ranking Classifieds at Marktplaats.nl: Query Modeling, Retrieval Methods, Data Fusion and Result Diversification”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2014.

- [146] Eenass Butrus. “Satisfying Coverage Criteria by Grammar Mutations and Purdom’s Sentence Generator”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2014.
- [147] Christian Patrik König. “Static Code Analysis for PHP”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, Aug. 2014.
- [148] Ovidiu Roşu. “Grammatical Inference from Source Code Written in an Unknown Programming Language”. Master’s thesis. Amsterdam, The Netherlands: Universiteit van Amsterdam, June 2014.

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## Notable activities

Dynamically updated portfolio counterpart:

<http://grammarware.net/goes>

### 2018

- Editor in Chief at [SLEBoK](#).
- Co-Organiser at GTTSE/OOPSLE and NOOL.
- Co-Organiser of a Dagstuhl Seminar on Multidirectional Transformations and Synchronisations.
- Organiser at RCL [CoCoDo](#) (at <Programming>).
- Artefact Evaluation Co-Chair at MoDELS.
- Programme Committee Member at SANER ERA.

### 2017

- Editor in Chief at [SLEBoK](#).
- Artefact Evaluation Co-Chair at MoDELS.
- Programme Committee Member at SANER ERA, SCAM, SATToSE.
- Steering Committee Member at SATToSE.
- Volume co-editor for Springer LNCS [100].
- Organiser at RCL [CoCoDo](#) (at <Programming>).
- Invited presenter at SPLASH-I.
- External reviewer for EMSE, SCP.
- Presenter at MoreVMs [65], IWACO [64], <Programming> [2], SLE [20], GPCE [19].
- Invited participant at IFIP WG 2.11 ([Program Generation](#)), Dagstuhl Seminar 17342 ([SLEBoK](#)).

### 2016

- PhD evaluation committee member of Jan Kurš (at Bern).
- Steering Committee Member at SATToSE.
- Artefact Evaluation Co-Chair at SLE.
- Program Committee Member at BX, SCAM, ITSLE, SATToSE, FlexMDE, PAME.
- Best/Distinguished Reviewer Award at SCAM.
- Best Artefact Award at ICSME.
- Social Media Co-Chair at STAF, SATToSE.
- Session Chair at SATToSE.
- Workshop Co-Chair of OOPSLE (at SANER).
- Poster co-author at SANER, SLE.
- External reviewer for JSME (SCAM), ComLan, SCP.
- Invited participant at NII Shonan Meeting on Bidirectional Transformations.
- Keynote speaker at ICSME Industry Track.
- Presenter at SANER ERA [29], ICSME [68], DSLDI [67], META [26].
- Presentation co-author at ICSME×2 [27, 69], SLE×2 [24, 25].

### 2015

- PhD evaluation committee member of Andrew Stevenson (at Queen's).
- Steering Committee Member at SATToSE.
- Program Committee Member at SANER ERA, SQM, SCAM, SLE, SATToSE (×2), ICSME ERA, GTTSE, FlexMDE.

- Judging Committee Member at WLM-az.
- Social Media Chair and Publicity Chair at STAF and GTTSE.
- Workshop Co-Chair of OOPSLE [4] (at SANER) and MMMDE [108] (at MoDELS).
- Session Chair at SANER, SATToSE, GTTSE, IFL.
- Volume co-editor for CEUR [71].
- Invited speaker at Hackers & Designers Summer Academy [67].
- External reviewer for JSS, ComLan ( $\times 3$ ), SANER.
- Presenter at FlexMDE [31], EduSymp [30], MULTI [32], IFL [73], PAME [74], GCM [33], SATToSE [76, 75], SATToSE Hackathon [109].
- Presentation co-author at SRC [72].

## 2014

- Steering Committee Member at SATToSE.
- Program Committee Member at CSMR-WCRE ERA, SQM, SCAM, DADA, XM.
- Judging Committee Member at WLE-az.
- Program Chair at SATToSE.
- Proceedings editor for SATToSE [102] and co-editor for SATToSE [101].
- Workshop Co-Chair of OOPSLE [80] (at CSMR-WCRE).
- Session Chair at CSMR-WCRE, WCN.
- Working Group Member at WLE-nl.
- Invited speaker at EFD.
- External reviewer for ComLan.
- Presenter at NLFP, SQM [7], CSMR-WCRE ERA [42], Joy of Coding, TFPIE [82], TFP [81], WLE, GEMOC [39], ME [40], EduSymp [37], MoDELS [41].
- Co-author of papers presented at Parsing@SLE [79], EduSymp [38].
- Poster presenter at CSMR-WCRE [42], SEN ( $\times 2$ ).

## 2013

- Steering Committee Member at SATToSE.
- Program Committee Member at SQM, SCAM, XM.
- Judging Committee Member at ACM SRC, WLM-az.
- Track Co-Chair at WCRE (Tool Demos).
- Hackathon Chair at SATToSE, OpenDataDay.
- Colloquium organiser of PEM at CWI.
- Social Media Co-Chair at MoDELS.
- Distinguished Tweeting Award at WCRE.
- External reviewer for SCP ( $\times 3$ : EST5, SLE12, LAFOUS), EMSE, SoSyM.
- Invited speaker at RedDevCon.
- Session Chair at OHM, WCRE, WCN.
- Workshop Co-Chair of OOPSLE [83] (at WCRE).
- Hackathon participant at WMH, WCRE.
- Tutorial presenter at MoDELS.
- Presenter at SATToSE [87], SATToSE TS, XM [85], SLE [43].
- Co-author of a paper presented at XM [84].
- Poster presenter at SLE [86].

## 2012

- Program Committee Member at LDTA, SCAM, SQM, WCN.
- Program Chair at WCN.

- Proceedings editor for WCN [104, 105].
- External reviewer for IET Software, SCP ( $\times 2$ : regular, LDTA08/09), EMSE.
- Social Media Chair at SoTeSoLa.
- Hackathon Lead Coordinator at SoTeSoLa.
- Hackathon participant at WNH.
- Session Chair at WCN.
- Colloquium organiser of PEM at CWI.
- Co-reviewer for WCRE.
- Invited speaker at IPA Spring Days, SLaC&M, SL(E)BOK.
- Presenter at CWI SM, BX [92], SAC/PL [49], LDTA [91], SATToSE, SoTeSoLa TS, SFD, XM [89], MPM [88], WNH.
- Poster presenter at CWI Lectures ( $\times 3$ ), MPM [88].

## 2011

- Program Committee Member at SCAM, WCN.
- Partial Scholarship at Wikimania.
- Publicity Chair at GTTSE.
- Publicity Co-Chair at SLE.
- Program Chair at WCN.
- Proceedings editor for WCN [106].
- Session Chair at WCN.
- Co-reviewer for LOPSTR, ESEC/FSE TDT.
- Presenter at SLE [94], Wikimania [114].

## 2010

- PhD degree at Vrije Universiteit Amsterdam [10].
- Program Committee Member at DYLA, SCAM.
- Triple System Operator at Wikia.
- Co-reviewer for CSMR, ECMFA, ICPC, MoDELS.
- Presenter at WSR [11], SLE [95].

## 2009

- Best Paper Award at SCAM [53].
- Web/Wiki Administrator at GTTSE.
- Most Active Participant of GTTSE.
- Co-reviewer for SAC/PL, CSMR, ICSTW, ICPC, ECMDA, TOOLS, DSL, SCAM, MoDELS.
- Presenter at IFM [54], GTTSE [97], SCAM [53].
- Poster presenter at I4CS, GTTSE.

## 2008

- Progressive Encyclopedist at Wikipedia.
- Prize Place at IX Yandex Cup (National Web Search Contest).
- Co-reviewer for MoDELS, STSM.
- Guest reviewer for TSE/SLE, SCP/LDTA.

## 2007

- Double System Operator at Wikia.
- Guru Level Contributor at Wikidot.
- Co-reviewer for ICPC, ATEM, SERP, ESEC/FSE.

**2006**

- System Operator at Wikia.
- Programming Contest Jury at ImagineCup.
- Co-presenter at RCM.

**2005**

- Co-reviewer for CSMR, WCRE.
- Presenter at GTTSE [99].

**2004**

- Dutch University Diploma *cum laude*, second MSc [12].
- Co-reviewer for ICSM.
- Co-presenter at MRAD.

**2003**

- Best Paper Award at DeBT mini-conference.
- Best Presentation Award at DeBT mini-conference.
- Russian University Diploma *cum laude*, MSc [14].
- Presenter at DeBT.

**2002**

- Python On-line Learning Complex (the first in Russian) [118]
- Russian University Diploma, BSc [15].

**2000**

- Founder and Moderator of [ru.programming.languages](#) newsgroup.
- Jury at a Regional Web Search Contest.
- Prize Place at a Student Scientific Conference.

**1999** • Jury at a Regional Science Contest.

**1998**

- Secondary School Certificate with Honours.
- Runner-up at a District Programming Contest.
- Prize Place at a Regional Young Researchers Conference.
- CoModerator and Primary Gardener of [ru.hacker](#) community.

**1997** • Prize Place at a Regional Young Researchers Conference.

**1989–1997** • School Certificates of Excellent Work, each year.

## Other conference activity

Dynamically updated portfolio counterpart:

<http://grammarware.net/talks>

Invited/colloquium presentations/lectures:

- *Two Sides of Grammarware Engineering* (ICSME Industry Track keynote, 2016)
- *You’ve Redecorated! I Don’t Like It* (Raincode, 2015)
- *Grammar Manipulation in a Broad Sense* (Queen’s University, 2015)
- *Language Design* (Hackers&Designers Summer Academy, 2015) — cf. [67]
- *Linguistic History of Software Engineering* (UvA Computational Science colloquium, 2014)
- *From Compilers to Grammarware* (Universität Paderborn, 2014)
- *Flipped Education* (Education Freedom Day keynote, 2014) — cf. [30]
- *Modelling Software Structures with GrammarLab* (MoDELS tutorial, 2013)
- *A Snappy Introduction to Metaprogramming in Rascal* (RedDevCon, 2013)
- *Subatomic Scientific Knowledge Objects* (SL(E)BOK, remote, 2012)
- *Programming Environment Meetings* (organisation and many talks throughout 2012)
- *Grammar Composition and Extension* (SLaC’M, 2012)
- *Maintenance and Evolution of Grammarware by Grammar Transformation* (IPA MDSE Spring Days, 2012)
- *The Life Cycle of Grammarware* (CWI Scientific Meeting, 2012)
- *Grammar Comparison Techniques* (SERG TUDelft, 2011)
- *Legacy: the Underside of Progress* (Southern Federal University, 2007)
- *Grammarware Application: Testing XML Validators* (Microsoft Academic Days 2004)
- *A .NET-based Test-Data Generator for Combinatorial Grammar- and Schema-based Testing* (VU IMSE, 2004)

Hands-on events:

- *⟨Programming⟩ 2018* coding dojo “CoCoDo”, chairing
- *⟨Programming⟩ 2017* coding dojo “CoCoDo”, chairing
- *MoDELS 2017* artefact evaluation, co-chairing
- *Raincode Assembler Compiler*, webinar
- *SLE 2016* artefact evaluation, co-chairing
- *SATToSE 2016 Hackathon* participation, demo
- *ICSME 2016* artefact submission (×2: tool [69] + dataset [68])
- *FlexMDE 2015* tool demo [31]
- *SATToSE 2015 Hackathon* participation, demo [109]
- *SATToSE 2015 Technology Showdown* demo [75]
- *GLAM WIKI 2015* challenge participation
- *Wikimedia Amsterdam Hackathon 2014* participation
- *Joy of Coding 2014* coding dojo “The Day of the Master”, chairing
- *WCRE 2013 Tool Demo Track* chairing
- *OHM 2013* hacker camp participation, heralding
- *SATToSE 2013 Hackathon* organisation, chairing
- *SATToSE 2013 Technology Showdown* demo of Rascal
- *Wikimedia Amsterdam Hackathon 2013* participation
- *International Open Data Day 2013* participation, Utrecht hackathon chairing
- *International Wikimedia Hackathon 2012* participation, demo
- *SoTeSoLa 2012 Hackathon* organisation, chairing, demo
- *SATToSE 2012 Technology Showdown* demo of Rascal
- *WLM 2011* participation, quantity prize
- *DYLA 2010* pair programming session
- *GTTSE 2009* participation, most active prize